



# CAMERON UNIVERSITY

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UNDERGRADUATE CATALOG  
2017 - 2019



CAMERON  
UNIVERSITY™



# CAMERON UNIVERSITY

## UNDERGRADUATE CATALOG 2017 – 2019

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#### 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, sexual orientation, genetic information, age, religion, disability, political beliefs, or status as a veteran in any of its policies, practices or procedures. This includes but is not limited to admissions, employment, housing, financial aid, and educational services.

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## 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 at the University. This catalog should not be construed as a contract between Cameron and any person. The online [Undergraduate Catalog](#) reflects the most recent changes to requirements, deadlines, fees, curricula, and courses.

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

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

## ACADEMIC CALENDARS

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

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

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

The approved calendar [Academic Calendar](#) is distributed to all departments and is available online.

## OUTCOMES ASSESSMENT

Cameron University's comprehensive outcomes assessment program, mandated by the Oklahoma State Regents for Higher Education, consists of entry level assessment, general education assessment, program outcomes assessment, and student satisfaction and engagement assessment. Participation by students may be required as a condition of enrollment, continued enrollment, or graduation.

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## 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 bachelor's 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 master's degree level. This change in function was the first granted to an Oklahoma institution since Cameron was given authority to offer bachelor's degrees more than 20 years earlier. The first master's degrees were awarded to forty-one graduates in May of 1990.

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

### WHO WE ARE

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

### MISSION STATEMENT

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

### INSTITUTIONAL PURPOSES

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

### Education for Effective Living

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

### 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 successfully complete these programs and pass the state certification examinations may be recommended to the State Department of Education for Oklahoma state teaching credentials at the early childhood, elementary, secondary, or elementary-secondary level.

**Graduate Degree Programs.** Graduate degree programs are designed to offer opportunities for advanced learning, professional preparation, economic enhancement, and personal development through concentrated and detailed study and research in any of several academic disciplines appropriate to persons living in Southwest Oklahoma. Cameron University facilitates such objectives by offering curricula leading to master's degrees. For more information refer to the [Graduate Catalog](#).

### Education Through Community Service

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

### UNIVERSITY FUNCTIONS

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

- To provide the educational programs of a senior college for the people living in the eleven counties of Southwest Oklahoma.
- To provide a program of general education for all students designed to provide common experiences which are needed by all citizens if they are to live productively.
- To provide programs of instruction in the liberal arts and sciences culminating in the awarding of Bachelor of Arts, Bachelor of Science or Bachelor of Specialty degrees.
- To provide programs, involving both course work and practical experiences, designed to assist in the development of effective early childhood, elementary, secondary and elementary- secondary teachers.
- To provide pre-professional course work and advisement for students planning to complete professional programs at other colleges and universities.
- To provide post-secondary programs having less than a baccalaureate objective in technical and occupational education culminating in the awarding of Associate in Science and Associate in Applied Science Degrees.
- To provide community services including programs of continuing education, both for credit and non-credit, cultural productions and special events designed to improve the intellectual, cultural, social, physical, moral, economic and occupational capacities of the people of Southwest Oklahoma.
- To provide programs of instruction for military personnel, including those persons stationed at Fort Sill and other military installations in the region and those who desire to pursue Reserve Officers' Training programs.
- To provide facilities, encouragement and financial support for faculty development and for faculty, student and constituent research projects.
- To provide graduate level programs designed to offer opportunities for advanced learning, professional preparation, economic enhancement, and personal development culminating in Master's Degrees.

### SERVICEMEMBERS OPPORTUNITY COLLEGE

Cameron University has been designated as a Servicemembers Opportunity College. Sponsored by the American Association of State Colleges and Universities, the Servicemembers Opportunity College Project (SOC) represents a commitment to education for the military. This network of institutions with similar admissions, transfer and residence requirements and policies allows service members to move from

random educational activities into program completion efforts. It allows maximum coordination of opportunities among institutions. Students with a SOC agreement must complete the degree requirements within seven years from issue date.

The two- and four-year degree area offered through Cameron University is Criminal Justice.

**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.**

For current fees and refund policies, refer to the current Enrollment Schedule or visit the [Business and Finance Office website](#).

### FINANCIAL ASSISTANCE

Cameron offers financial assistance programs in the form of scholarships, grants, loans, and employment opportunities. Students intending to apply for financial assistance should contact the [Office of Financial Assistance](#) well in advance of their desired start term. Application instructions and forms may be obtained [online](#).

### SCHOLARSHIPS

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

Beginning with the 2018-2019 award year Cameron will offer students the opportunity to investigate university-sponsored scholarships through the use of Academic Works. Academic Works is a scholarship search engine that will match up students' profiles with scholarships they may be eligible to receive. Academic Works will be available on-line and will replace the General Scholarship Application. For additional information, applicants can contact the [Financial Assistance Office](#), or the [Office of Admissions](#) for general university scholarship opportunities, or the Chair of the academic department(s) in which students plan to pursue a major.

February 1 is the priority date for scholarship application submission. However, eligible late applicants are considered on a funds-available basis. Financial Assistance questions can be sent to [financialaid@cameron.edu](mailto:financialaid@cameron.edu).

### STUDENT EMPLOYMENT

Cameron University offers employment to a limited number of students each year in all areas of the university. Students have the opportunity to apply for an on-campus position to assist with educational expenses. To view current on-campus employment opportunities and for additional information about becoming a Cameron employee, go to [AggieAccess](#) and click on My Info, then Quick Links, and On-Campus Student Employment. The [Office of Human Resources](#) maintains a list of employment opportunities.

## GRANTS

Federal and state funds are available through Cameron University in the form of educational grants. Federal Pell, Federal Supplemental Educational Opportunity Grant (SEOG), Federal TEACH, and the Oklahoma Tuition Aid Grant Program (OTAG). Otherwise, eligible new students must be admitted to the university before any action is taken on their financial aid applications. Grant amounts vary depending on (1) financial need and (2) the eligibility requirements of the specific programs. Students must be enrolled in eligible programs leading to degrees or certificates.

## LOANS

Cameron University is a participant in the Federal William D. Ford Direct Loan Programs (FDSL). If all federal requirements are met, an applicant who is an undergraduate or a graduate student in an eligible program can borrow money to attend Cameron. Applicants must be enrolled at least half-time (5 hours for graduates, 6 hours for Undergraduates). Repayment plans can be tailored to the individual borrower and the interest on FDSLs can vary from year to year. **It should be noted that state licensure classes do not meet the federal loan eligibility requirements.** Detailed information about each type of loan can be found on the [Financial Assistance](#) webpage.

## VETERANS BENEFITS

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

[Cameron University's Veterans Affairs Office](#) (VAO) is an excellent source of information regarding various programs offered through the VA. The application process for benefits, university admissions requirements, and required VA course certification can be addressed. A primary function of VAO is certification of student enrollment and attendance to the VA. Eligible students are encouraged to use VAO services regularly.

Initiation and continuation of VA education benefits for eligible students is accomplished through the VAO. Students must submit paperwork indicating their intent to enroll at Cameron University and a request for assistance with benefits at least 10 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.

Students utilizing VA education benefits must turn in all previous training records and transcripts to be evaluated for prior credit, whether or not prior credit is granted.

Students utilizing VA education benefits may be in debt to the VA for withdrawal or early dismissal from the university.

Leaves of Absence Due to Military Deployment-Students (including students utilizing VA Educational benefits) encountering special circumstances impacting their academic enrollment with Cameron University may submit a Special Request form to Academic Affairs. Students may request financial and/or academic relief through this process. If the request is due to unexpected military deployment which interrupts or precludes the completion of course(s), it must be accompanied by military documentation. Requests for academic and financial relief are reviewed by the Office of Academic Affairs and by the Business Office, respectively, on a case-by-case basis.

## ACCREDITATION

Cameron University is accredited by [THE HIGHER LEARNING COMMISSION](#).

The Associate in Applied Science in Radiologic Technology offered by the Department of Agriculture, Biology, and Health Sciences is accredited by the [JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY \(JCERT\)](#).

The Associate in Applied Science in Respiratory care offered by the Department of Agriculture, Biology, and Health Sciences is accredited by the [COMMISSION ON ACCREDITATION FOR RESPIRATORY CARE \(CoARC\)](#).

The Bachelor of Accounting, Bachelor of Business Administration, and Master of Business Administration degrees offered by the Department of Business are accredited by the [ACCREDITATION COUNCIL FOR BUSINESS SCHOOLS AND PROGRAMS \(ACBSP\)](#).

The Teacher Education programs at Cameron University are accredited by the State, [OFFICE OF EDUCATIONAL QUALITY AND ACCOUNTABILITY](#) 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 in Music, Bachelor of Music, and Bachelor of Music Education degrees offered by the Department of Art, Music, and Theatre Arts are accredited by the [NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC \(NASM\)](#).

The Bachelor of Science in Biology, Medical Laboratory Science concentration offered by the Department of Agriculture, Biology, and Health Sciences is affiliated with Comanche County Memorial Hospital's Medical Technology/Clinical Laboratory Science Program which is accredited by the [NATIONAL ACCREDITING AGENCY FOR CLINICAL LABORATORY SCIENCES \(NAACLS\)](#).

The Bachelor of Science in Chemistry (Professional Option) offered by the Department of Chemistry, Physics, and Engineering is certified by the [AMERICAN CHEMICAL SOCIETY \(ACS\)](#).

## EQUAL OPPORTUNITY

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.

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, sexual orientation, genetic information, age, religion, disability, political beliefs, or status as a veteran in any of its policies, practices or procedures. This includes but is not limited to admissions, employment, housing, financial aid, and educational services.

To obtain information about applicable laws or to file a complaint of discrimination, including harassment, on the basis of race, color, national origin, sexual orientation, genetic information, sex, age, religion, disability, political beliefs, or status as a veteran contact the [Office of Human Resources](#), Administration Building, Room 121, 2800 W. Gore Blvd., Lawton, Oklahoma 73505-6377, or you may call (580) 581-2245 or e-mail [tomr@cameron.edu](mailto:tomr@cameron.edu).

## DEGREES AND MAJORS

Cameron University offers curricula leading to master's, bachelor's and associate degrees. The following bachelor's degrees are offered: Bachelor of Accounting (B.Acc.), Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.M.), Bachelor of Music Education (B.M.E.), and Bachelor of Science (B.S.). Associate in Science (A.S.) and Associate in 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 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.

### **Accounting (BACC)**

#### **Agriculture (BS)** with concentrations in:

*Agriculture Business Management*  
*Agronomy*  
*Animal Science*  
*Environmental Science*

#### **Allied Health Sciences (AS)**

#### **Art (BA)**

#### **Art, Studio Art (BFA)** with concentrations in:

*Graphic Design*  
*Painting*  
*Printmaking*  
*Sculpture*

#### **Biology (BS)** with concentrations in:

*Organismal*  
*Cell/Molecular*  
*Medical Laboratory Science*

#### **Business (AS)**

#### **Business Administration (BBA)** with specializations in:

*General Business Administration*  
*Management*  
*Finance*  
*Marketing*

#### **Chemistry (BS)** with concentrations in:

*ACS Certified Chemistry*  
*Non-ACS Certified Chemistry*  
*Health Profession Chemistry*

#### **Communication (BA)** with concentrations in:

*Communication Studies*  
*Public Relations*

#### **Computer Science (BS)**

#### **Criminal Justice (BS and AAS)** with AAS concentrations in:

*Corrections*  
*Law Enforcement*

#### **Early Childhood Education (BS)** with concentration in:

*Special Education*

#### **Elementary Education (BS)** with concentration in:

*Special Education*

#### **Engineering (AAS)** with concentrations in:

*Civil Engineering*  
*Electrical Engineering*  
*Environmental Engineering*  
*Industrial Engineering*  
*Mechanical Engineering*

#### **English (BA)** with concentrations in:

*Creative Writing*  
*Literature*

#### **English Education (BA)**

#### **Family and Child Studies (BS)**

#### **History (BA)**

#### **Information Technology (BS & AAS)** with BS concentrations in:

*Computer Information Systems*  
*Management Information Systems*  
*Cyber Security and Information Assurance*

#### **Interdisciplinary Studies (BS & AS)**

#### **International Languages (BA)**

#### **Journalism and Media Production (BA)**

#### **Mathematics (BA)**

#### **Music (BA & BM)** with BM concentrations in:

*Vocal Performance*  
*Instrumental Performance*  
*Piano Performance*  
*Composition*

#### **Music Education (BME)** with concentrations in:

*Instrumental/General Music Education*  
*Vocal/General Music Education*

#### **Organizational Leadership (BS)** with concentrations in:

*Business*  
*Criminal Justice*  
*Military Science*  
*Sociology*  
*Technology*

#### **Physics (BS)**

#### **Political Science (BA)**

#### **Psychology (BS)**

#### **Radiologic Technology (AAS)**

#### **Respiratory Care (AAS)**

#### **Social Studies Education (BA)**

#### **Sociology (BS)**

#### **Sports and Exercise Science (BS)**

#### **Theatre Arts (BA)** with concentrations in:

*Performance Theatre*  
*Technical Theatre*

## MINORS

A minor for Bachelor's 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 that offers the courses. Minors that include courses from multiple departments are approved by the dean of the school that 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*	Humanities*
Agriculture	Information Technology*
Agronomy	Journalism and Media
Animal Science	Production*
Arabic	Language Arts*
Art*	Latin
Art History*	Law Enforcement*
Biology*	Management*
Chemistry*	Management Information
Communication Studies*	Systems*
Computer Information	Marketing*
Systems	Mathematics*
Computer Science*	Military Science*
Corrections*	Multicultural Studies*
Criminal Justice*	Multimedia Design*
Cyber Security*	Music*
Economics*	Organizational
Educational Studies*	Leadership*
English	Physics*
Environmental Studies*	Political Science
Exercise Science*	Pre-Law*
Family Science*	Professional Writing
Finance*	Psychology
Foreign Languages*	Public Relations*
French	Recreational Arts*
General Business	Sociology
Administration*	Spanish
Geography	Special Education*
German	Sport Management*
Health*	Statistics*
History*	Theatre Arts*

\*Defined Minor

### DEFINED MINORS

#### Accounting (18 hours)

**For Non-Business Majors:** ACCT 2013, ACCT 2023 and upper division accounting courses (12 hours); **For Business Majors:** Upper division accounting courses (18 hours).

#### Art (24 hours)

ART 1113, ART 1213, ART 1223, ART 2243, ART 2623 and upper division ART electives (9 hours).

#### Art History (18 hours)

ART 1013, ART 2613, ART 2623, and ART 4633 (9 hours).

#### Biology (24 hours)

BIOL 1364, BIOL 1474, BIOL 2124, BIOL 2144, BIOL 2154 and BIOL 3014.

#### Chemistry (18 hours)

CHEM 1361/1364 and CHEM 1471/1474 and 8 hours selected from CHEM 3113, CHEM 3232, CHEM 3345, CHEM 3314, CHEM 3324 or other approved Chemistry courses.

#### Communication Studies (18 hours)

COMM 1113, COMM 2313 **or** COMM 3353, COMM 3393 **and** COMM electives (9 hours).

#### Computer Science (18 hours)

**Required:** CS 1113, CS 1313, CS 1513, CS 3183; **and** two courses selected from: CS 1523, CS 1733, CS 2333, CS 2413, CS 3013\*, CS 3513\*. (\*Prerequisite: CS 2413.)

#### Corrections (18 hours)

CJ 1013, CJ 2113, CJ 3103; **and** any three CORR courses (9 hours).

#### Criminal Justice (18 hours)

CJ 1013, CJ 2113, CJ 3103; **and** three additional courses (9 hours) in CJ, CORR, or LE (at least one of these courses must be a CJ course.)

#### Cyber Security (18 hours)

18 hours of courses from the Information Technology Program, including IT 1063, IT 2063, IAS 2233, and at least 9 hours chosen from the following courses in the Cyber Security and Information Assurance Option: IAS 2333, IAS 3063, IAS 3233, IAS 3263, IAS 4063.

#### Economics (18 hours)

**For Non-Business Majors:** ECON 2013, ECON 2023, ECON 3013, ECON 3023, ECON 3313 and upper division business or economics electives (3 hours); **For Business Administration and Accounting Majors:** ECON 3013, ECON 3023, ECON 3313 and upper division business and economics electives (9 hours).

#### Educational Studies (18 hours)

**(Closed to History, Political Science, English, Mathematics, and Music Majors).** EDUC 3003, EDUC 3733, EDUC 4883, SPED 3103; **and** 6 hours selected from the following: EDUC 3013, EDUC 3673, EDUC 3753, or EDUC 4653.

#### Environmental Studies (18 hours)

**For Non-Biology Majors:** ENSC 2004, BIOL 1004, and a minimum of 10 hours from: BIOL 1114, GEOG 2013, GEOG 3023, GEOL 1014, and SOCI 3373; **For Biology Majors:** ENSC 2004 and a minimum of 14 hours from: BIOL 1114, BIOL 3054\*, BIOL 3074\*, BIOL 4064\*, GEOG 2013, and GEOG 3023. (\*These courses have prerequisites covered by Biology Major core and/or concentration requirements.)

#### Exercise Science (18 hours)

**(Closed to Sports and Exercise Science Majors)** HLTH 2213, HLTH 3243, HLTH 3293\*, HLTH 4503\*, HPET 3343, and HPET 4203\*\*. (\*Prerequisite: HLTH 3243. \*\*Prerequisite: HLTH 3293.)

#### Family Science (18 hours)

FAMS 1123 and 15 hours to be chosen from any course with a FAMS prefix, CRM 3603, PSY 3353, PSY 3363, or PSY 3373.

#### Finance (18 hours)

**For Non-Business Majors:** FIN 3313, FIN 3603, FIN 3623, FIN 4333 and upper division finance electives (6 hours); **For Business Administration and Accounting Majors:** FIN 3313, FIN 3623, FIN 4333 and upper division finance electives (9 hours).

#### Foreign Languages (18 hours)

Any 18-hour combination of any level course with a foreign language prefix.

**General Business Administration (18 hours)**

**For Non-Business Majors:** ACCT 2013, ACCT 2023, ECON 2023, FIN 3603, MGMT 3013, MKTG 3413.

**Health (18 hours)**

**(Closed to Sports and Exercise Science Majors)** HLTH 1053, HLTH 1063, HLTH 2213, HLTH 3243, HLTH 3293\*, and HLTH 3303. (\*Prerequisite: HLTH 3243.)

**History (18 hours)**

HIST 1113, HIST 1123, HIST 1483, HIST 1493, and history electives (6 hours).

**Humanities (18 hours)**

HIST 2113 **or** HIST 2223 **and** 15 hours selected from (with no more than 6 hours with the same prefix): ART 2613, ART 2623, ENGL 3063, ENGL 3073, HUM 2113, HUM 2223, PHIL 1113, PHIL 2713, HIST 1113, HIST 1123, MUSC 1413, MUSC 1423, THTR 3823.

**Information Technology (18 hours)**

18 semester hours of the Information Technology Program (including IT 2063 and IAS 2233). Note that CIS 1013 may not count toward this minor.

**Journalism and Media Production (18 hours)**

JRMP 1113, JRMP 1213, JRMP 1313, JRMP 2513, and 6 hours of courses with the JRMP prefix.

**Language Arts (18 hours)**

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 and Media Production, Library Science, English (sophomore level or above) (the English option is closed to English majors), Theatre, Communication (except COMM 1113), Professional Writing.

**Law Enforcement (18 hours)**

CJ 1013, CJ 2113, CJ 3103; **and** any three LE courses.

**Management (18 hours)**

**For Non-Business Majors:** BUS 1113, ACCT 2013, MGMT 3013, MGMT 3513 and upper division management electives (6 hours); **For Business Administration and Accounting Majors:** ACCT 3213, MGMT 3513, MGMT 3813, MGMT 4033 and upper division management electives (6 hours).

**Management Information Systems (18 hours)**

18 semester hours of the Management Information Systems Specialization courses including MIS 3033, MIS 4033, and MIS 4533. Appropriate classes in CIS, IAS, IT, or TECH may be used to meet the requirements of the MIS minor. CIS 1013 may not count toward this minor.

**Marketing (18 hours)**

**For Non-Business Majors:** BUS 1113, MKTG 3413, MKTG 3423, MKTG 4443 and upper division marketing electives (6 hours); **For Business Administration and Accounting Majors:** MKTG 3423, MKTG 4443 and upper division marketing electives (12 hours).

**Mathematics (18 hours)**

MATH 2215\* and MATH 2235 **and** a minimum of 8 credit hours of electives chosen from: MATH 2244, MATH 2613, MATH 3001, STAT 2013 **or** STAT 3113, MATH 3013\*\* **or** MATH 4433, MATH 3213\*\*, MATH 3253, MATH 3302, MATH 3333, MATH 3343, MATH 3413, MATH 4113, MATH 4423\*\*, MATH 4471-3, MATH 4483\*\*\*. (\*Prerequisites: MATH 1513 and MATH 1613 or satisfactory placement score. \*\*Prerequisite: MATH 2613. \*\*\*Prerequisites: MATH 2235 and MATH 2613.)

**Military Science (19 hours)**

MSL 3013, MSL 3011, MSL 3023, MSL 3021, MSL 4013, MSL 4011, MSL 4023, MSL 4021, HIST 3133

**Multicultural Studies (18 hours)**

18 hours chosen from the following: COMM 4313, SOCI 3013, ENGL 2313, ENGL 2323 OR GEOG 3243, HUM 2713, MUSC 1033, and FNAR 1013.

**Multimedia Design (18 hours)**

MM 1013, MM 1133, **and** MM electives (12 hours).

**Music (18 hours)**

Band/Choir/Accomp./Orch.-MUSC 1110-1, MUSC 1140-1 (4 semesters); MUSC 1413, MUSC 1423, MUSC 2312, MUSC 2332, MUSC 3801 (4 semesters), MUSC 1000 (4 semesters).

**Organizational Leadership (18 hours)**

A minimum of 18 hours chosen from the following\*: ORGL 3223, ORGL 3333, ORGL 3443, ORGL 4113, ORGL 4223, ORGL 4333, ORGL 4443. (\*Exception: Students previously admitted to the Organizational Leadership program who have taken ORGL 3113 may count that course towards the 18 hour minor requirement.)

**Physics (18 hours)**

(PHYS 1115 **and** PHYS 1215) **or** (PHYS 2015 **and** PHYS 2025), PHYS 3003, **and** electives (5 hours).

**Pre-Law (18 hours)**

**Required (12 hours):** PS 3813, PS 4253, BUS 3213\*, COMM 3113; **Electives (6 hours):** BUS 3223\*\*, CJ 2113, CJ 2233\*\*\*, CJ 3053, COMM 3313, COMM 3633 (\*Prerequisites: Junior Standing; \*\*Prerequisite: BUS 3213; \*\*\*Prerequisite: CJ 1013.)

**Public Relations (18 hours)**

COMM 4673, PBRL 3113, PBRL 4823, **and** PBRL or JRMP electives (9 hours).

**Recreational Arts (18 hours)**

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:** Required: MUSC 3683 and choose from: MUSC 1111, MUSC 1141, MUSC 1023; **Theatre:** THTR 1103, THTR 1203, THTR 1603, THTR 2603, THTR 3403.

**Special Education (18 hours)**

(Open to Psychology and Family and Child Studies majors only.) SPED 3103\*, SPED 3203, SPED 3223, SPED 3243, SPED 3263, SPED 4413. (\*Prerequisite: EDUC 3733 or PSY 3353.) **This minor does not prepare students for state teaching licensure in the public schools.**

**Sport Management (18 hours)**

**(Closed to Sports and Exercise Science majors)**

HPET 3013, HPET 3023, HPET 3363, HPET 3373\*, HPET 4003\*\*, HPET 4213\*\*. (\*Prerequisite: HPET 2323. \*\*Prerequisite: Junior Standing.)

**Statistics (18 hours)**

**Required:** MATH 2215\*, MATH 2235, STAT 2013\*\* **and** a minimum of 5 credit hours of electives chosen from the following: STAT 2023, STAT 3113, STAT 3123, MATH 3253, MATH 3333, MATH 3302, MATH 4113, MATH 4433. (\*Prerequisite: MATH 1513 and MATH 1613 or satisfactory placement score. \*\*Prerequisite: MATH 1513 or satisfactory placement score.)

**Theatre Arts (18 hours)**

THTR 1103, THTR 1203, THTR 2603 **and** electives (9 hours).

## PRE-PROFESSIONAL STUDIES

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

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

PROGRAM	ADVISEMENT DEPARTMENT
Actuarial Science	Mathematical Sciences
Allied Health	Agriculture, Biology, and Health Sciences
Dentistry	Agriculture, Biology, and Health Sciences or Chemistry, Physics, and Engineering
Engineering	Chemistry, Physics, and Engineering
Law	Social Sciences
Medicine	Agriculture, Biology, and Health Sciences or Chemistry, Physics, and Engineering
Nursing	Agriculture, Biology, and Health Sciences
Optometry	Agriculture, Biology, and Health Sciences or Chemistry, Physics, and Engineering
Pharmacy	Agriculture, Biology, and Health Sciences or Chemistry, Physics, and Engineering
Physical Therapy	Agriculture, Biology, and Health Sciences or Chemistry, Physics, and Engineering
Veterinary Medicine	Agriculture, Biology, and Health Sciences or Chemistry, Physics, and Engineering

## ADMISSIONS

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

For admission requirements for [Graduate Studies](#), contact the Office of Admissions at 580-581-2289.

### CONCURRENT HIGH SCHOOL STUDENT ADMISSION

A junior or senior high school student enrolled in an accredited Oklahoma high school may be admitted provisionally if the following criteria are met. The student must:

- Earn an ACT composite score of 20 or higher **or** a SAT score of 1020 **or** have an unweighted high school grade point average of 3.0 and rank in the top 50% of their class.

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:

- Completed enough high school coursework to be equivalent to an individual who is classified as a junior or senior at an accredited high school.
- Earn an ACT composite score of 20 or higher **or** a SAT score of 1020 or higher.

All concurrently enrolled students must also:

- Provide a signed statement from the high school principal or counselor stating that the student will be eligible to satisfy high school graduation requirements (including curricular requirements for college admission) no later than the spring semester of the senior year.
- Provide a signed statement from parent(s) or legal guardian stating the student has permission to enroll concurrently.

A high school student may enroll in a combined number of high school and college courses per semester not to exceed a full-time college workload of 19 semester credit hours. Non-academic high school units are excluded from the workload calculation. For more information regarding concurrent enrollment, contact the Office of Admissions at 580-581-2289.

### RECENT HIGH SCHOOL GRADUATE ADMISSION

**Baccalaureate Degrees.** Minimum baccalaureate degree admissions requirements for recent high school graduates are:

- Graduate of an accredited high school or possess a GED (student's high school class must have graduated),
- Meet the following performance requirements: minimum composite ACT of 20 or SAT of 940, **OR** rank in the top 50 percent of high school graduating class **AND** have a high school (4 years) GPA 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), 3 years of lab science (may not include general science), 3 years of history and citizenship skills (including 1 year of American History and 2 additional years from the subjects of history, economics, geography, government, non-western culture), 2 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 20 or SAT of 940 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 in science, or associate in applied science degrees.

**Associate in Science Degrees.** Minimum AS admissions requirements for recent high school graduates are:

- Graduate of an accredited high school or possess a GED (student's high school class must have graduated), **AND**
- Meet the minimum high school curricular requirements for baccalaureate degrees above, **AND**
- Complete the ACT or SAT

**Associate in Applied Science Degrees.** Minimum AAS admissions requirements for recent high school graduates are:

- Graduate of an accredited high school or possess a GED (student's high school class must have graduated) **AND**
- Complete the ACT or SAT.

Students lacking curricular requirements may be required to take remedial/developmental courses. These courses must be completed within the first 24 semester hours attempted, with a grade of "C" or higher and prior to taking courses in the

discipline. To transfer to an associate in science or baccalaureate degree program the student must meet both the curricular and performance admission requirements.

### NON-DEGREE SEEKING STUDENT ADMISSION

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, English, science, history and government 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 or who need remediation in two or more subjects 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 will be admitted through associate degree standards. To transition to baccalaureate degree programs, students must successfully address all curricular and performance deficiencies and successfully complete twenty-four collegiate credit hours.

### 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. Any student admitted through the Adult Admissions category must demonstrate college readiness through defined placement assessments or by successful completion of zero-level, developmental courses before entering bachelor level degree programs.

### OPPORTUNITY ADMISSION

Students who have not graduated from high school whose composite standard score on the ACT places them at the 99th percentile of all students using Oklahoma norms or whose combined verbal and mathematical score on the SAT 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 TOEFL minimum score of 500 or higher on the paper-based test, 173 or higher on the computer-based test, 61 or higher on the internet-based test, or a 5.5 on the IELTS to meet the standards

for unqualified admission to Cameron. Contact the Office of Admissions for additional information.

### 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 GPA 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 GPA 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 GPA 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 as stated above under the transfer categories, but who have not been formally suspended, may be admitted as "transfer probation" students. If GPA is less than 2.0, student will be admitted as a "transfer probation" student. Students seeking admission in this category must meet with an Admissions Officer regarding procedures and enrollment conditions.

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

### RE-ADMISSION

Any former Cameron student who did not attend Cameron during the previous two semesters must apply for re-admission.

### USE OF NON-ACADEMIC CRITERIA IN THE ADMISSION OF STUDENTS

Cameron University is committed to providing a safe learning and teaching environment for our students, faculty, and staff. As part of that commitment, the University reviews applications from prospective students who indicate they have a felony conviction or have been suspended or expelled from another college or university for non-academic reasons to determine their admissibility. Students can contact the Dean of Students Office for review of the complete policy.

### FALSIFICATION AND OWNERSHIP OF RECORDS

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

**All records required for admission become the property of Cameron University. Examples include, but are not limited to, test score reports, GED reports, and transcripts.**

### NAME OR ADDRESS CHANGE

A student who has legally changed his/her name must provide appropriate documentation to substantiate the change. This documentation is to be submitted to the Registrar's Office. All transcripts are issued under the student's legal name as recorded in the Registrar's Office. Students should insure their current mailing address is on file at all times to avoid not receiving financial information and any other important notices. Students should log in to their AggieAccess account to update address information.

### INITIAL COURSE PLACEMENT

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 and a seventh semester or final high school GPA of below 3.0 are required to take a developmental course or courses 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 may be required to complete additional courses to meet baccalaureate degree requirements.

CPT's are required to place adult students in English, mathematics, and reading courses.

Developmental courses used to remove performance deficiencies are not college-level courses; therefore, they do not apply toward any degree requirement, major/minor, or general education requirement. A special fee is assessed for these courses in addition to normal tuition and fees.

All English, math, and reading deficiencies must be satisfactorily cleared within the first 24 hours of collegiate enrollment (GPA hours). Satisfactory course completion requires a grade of "C" or better.

Initial course placement regulations for students with or without developmental course requirements for university success, English, reading, mathematics, and other curricular deficiencies are available online via the [Testing Center](#).

### ADVANCED STANDING CREDIT

Students enrolled at Cameron University may receive degree credit for post-secondary level extra-institutional learning related to subject areas, courses, and programs of study offered by Cameron University. The Vice President for Academic Affairs is responsible for developing and administering policies and procedures for awarding advanced standing credit. Advanced standing credit awards are made under policies and procedures designed to assure that reliable and valid measures of learning outcomes have been applied.

Credit recommendations for AP, CLEP, and DSST will be made using the recommendations below. When equivalent to a Cameron course, a Cameron course prefix, number, and title will be assigned; when not equivalent, a Cameron course prefix, 100T, 200T, 300T, or 400T, and title from the guide used to evaluate the course will be assigned. Credit hours for a course with no equivalent will be listed in the hours earned category on the student's transcript. Maximums of 45 or 64 credit hours may be applied to Associate or Baccalaureate degrees, respectively. In addition, a student must earn 12 credit hours at Cameron before credit is awarded. A complete list of all Cameron AP, CLEP, and DSST test titles is available on the [Testing Center](#) website.

### ADMISSIONS RESIDENCE STATUS

**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 set criteria can be established as sufficient to guarantee classification as a resident of Oklahoma.

**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 having come to Oklahoma with the intention of establishing domicile, that person 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 his or her own domiciliary status on a separate basis, except as provided in other sections of this policy.

**Dependent Persons (Definition for Admissions Purpose).**

The legal residence of a dependent person is that of the student's parents, or the legal residence of the parent who has legal custody or the parent with whom the student habitually resides. If the student is under the care of those other than the parents, the legal residence is that of the student's legal guardian.

A dependent person may become emancipated (freed from the parental domicile) through marriage, formal court action, abandonment by parents, or positive action on the student's own part evidential of alienation of parental domicile. To qualify under the latter category, a dependent person must have completely separated 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 having come to Oklahoma with the intention of establishing domicile, the applicant 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.** Members of the armed forces who provide evidence that they are full-time active duty in the armed forces stationed in Oklahoma or temporarily present through military orders shall be immediately classified upon admission as in-state status along with their spouse and dependent children. Further, when members of the armed services are transferred out-of-state, the members, their spouses, and dependent children shall continue to be classified as in-state as long as they remain continuously enrolled.

Former full-time active military personnel who remain in Oklahoma after their service may retain their in-state status without the 12 month requirement if they establish domicile as defined in this policy.

**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 REQUIREMENTS FOR GRADUATION

**Minimum Retention/Graduation GPA.** Completion of the specified degree requirements with a minimum retention/graduation GPA of 2.0 and a minimum

retention/graduation GPA of 2.0 in all work taken at Cameron University.

**Minimum Hours in Residence-Baccalaureate Degrees.**

Baccalaureate degree candidates must satisfactorily complete a minimum of 30 semester hours in residence at Cameron University. At least 15 of the final 30 hours applied toward the degree or at least 50 percent of the hours required by the institution in the major field must be satisfactorily completed at the awarding institution.

**Minimum Hours in Residence-Associate Degrees.** Associate degree candidates must complete a minimum of 15 semester hours in residence at Cameron University.

**Minimum Total and Upper Division Hours at Baccalaureate Degree-granting Institution.** 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.

**Minimum Hours in Liberal Arts and Science-Baccalaureate Degrees.** 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.

**Additional Degree Requirements.** Some degrees have requirements in addition to these University requirements. Consult the specific degree for a listing of any such requirements.

**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.

### GRADE POINT AVERAGE (GPA)

**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 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", "AU", "P", or "AW" has been assigned are not grade point earning hours.

**Retention/Graduation Grade Point Average.** The ratio of grade points earned to the total grade point earning hours attempted excluding developmental courses, "forgiven" courses, "retrieved" courses, and physical education activity courses.

### 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.

### **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. The Vice President for Academic Affairs is ultimately responsible for determining the applicability of transfer credits to meet general education requirements. The Vice President for Academic Affairs may designate faculty members or admissions personnel to assist with this function.

### **TRANSFER CREDIT FROM NON-REGIONALLY ACCREDITED COLLEGES AND UNIVERSITIES**

Transfer credits from colleges and universities not accredited by a regional association may be accepted in transfer when appropriate to the student's degree program and when the dean of the school offering the major or minor has had an opportunity to validate the courses or programs. This responsibility may also be delegated to department chairs or faculty members. The Vice President for Academic Affairs is ultimately responsible for determining the applicability of transfer credits to meet general education requirements. The Vice President for Academic Affairs may designate faculty members or admissions personnel to assist with this function.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **GRADUATION APPLICATION**

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

### **DIPLOMAS AND TRANSCRIPTS**

Cameron University views the diploma as a "ceremonial" document, suitable for display purposes. The document officially verifying completion of degree requirements is the transcript issued by the Registrar's Office. A student may obtain a copy of his/her official transcript from the Office of the Registrar at no charge. Student must present photo identification to obtain transcripts.

### **PRESENCE AT COMMENCEMENT EXERCISES**

An annual commencement exercise is conducted at the end of the spring semester. Students who complete graduation requirements that semester or at the end of the preceding fall semester and those who apply to graduate at the end of the following summer session or following fall semester, are invited and encouraged to attend.

### **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 GPA of 4.00 graduates "summa cum laude," one whose cumulative GPA is less than 4.00 but is 3.80 or above graduates "magna cum laude," and one whose cumulative GPA is between 3.60 and 3.80 graduates "cum laude." These honors are listed on official Cameron University transcripts, and honor graduates are formally recognized at the commencement.

### **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 9 semester hours during a summer or eight-week session.
- A student who has attained an overall GPA 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.

### FULL-TIME STUDENT

A student who enrolls in 12 or more hours during a regular semester or 6 or more hours during a summer semester is classified as a full-time student.

### 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."

### ENROLLMENT

Students may enroll for courses with an academic advisor during designated times listed on the [Enrollment Schedule](#) or on [AggieAccess](#). To receive credit for a course, a student must enroll prior to taking the course.

### 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 instructor(s), chair(s), dean(s) responsible for the course(s) in which a student wishes to enroll as well as the Vice President for Academic Affairs. Any student enrolling late will be responsible for making up all work of the classes in which s/he enrolls but is not guaranteed credit for any late work.

### CHANGING COURSE SCHEDULES

Student schedule changes are processed in the Registrar's Office, Academic Advising Center, departmental offices, and on the Cameron University-Duncan campus.

- *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 ten days of a regular semester, first five days of a 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 drop period 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.

### 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.

### ATTENDANCE

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

### 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 on the [Enrollment Information](#). It is a student's responsibility to complete the withdrawal process. 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, e-mail, or phone for assistance.

### CREDITS

Cameron University strictly adheres to the policies of the Oklahoma State Regents for Higher Education (OSRHE) when defining academic sessions and credit hours. These policies are stated in the OSRHE Policy and Procedures Manual, Section 3.18.3. OSRHE mandates that all classes taught during the standard term are expected to meet for sixteen, twelve, or eight weeks in the Fall or Spring semesters, four or eight weeks in a summer session, or an equivalent number of days/weeks between a semester and/or session for intersession. No institution, academic department, or individual faculty member is authorized to reduce the number of academic weeks in the standard semester without specific approval of the State Regents.

The semester-credit-hour is the standard and traditional unit of

credit to be used by Cameron University in evaluating a student's educational attainment and progress for all programs. A semester-hour of credit is calculated as follows:

- One semester-hour of credit is normally awarded for completion of a course meeting for 800 instructional minutes, (50 minutes/week for sixteen weeks; 100 minutes/week for eight weeks; 200 minutes/week for four weeks), exclusive of enrollment, orientation, and scheduled breaks. Organized examination days may be counted as instructional days.
- Laboratory credit is normally awarded at a rate not to exceed one-half the instructional rate. One semester-hour of credit is normally awarded for completion of a laboratory meeting a minimum of 1600 minutes (100 minutes/week for sixteen weeks; 200 minutes/week for eight weeks).
- Instruction offered through a combination of class and laboratory meetings would normally observe the standards set forth above on a pro rata basis. For example, a course offered for four semester-hours of credit might meet for 100 minutes of organized instruction plus 200 minutes of laboratory per week for 16 weeks.
- Block or alternative course schedules may also occur within the dates set forth for a semester or summer session. Courses offered during academic terms shorter than a semester will observe the same academic standards involving instructional hours per semester-credit-hour as those courses offered during a standard academic semester. Institutions are encouraged to be flexible in offering courses in alternative schedules to meet student and employer needs.

There are alternatives to reliance on time-in-class as the basis for determining academic credit-hours earned. The achievement of academic credit-hours should be linked to demonstrated student learning either through regular class assignments and evaluations or demonstration of competencies. When determining the appropriate academic credit for non-traditional or accelerated format courses, institutions must adhere to the Higher Learning Commission (HLC) Handbook of Accreditation standards. HLC requires institutions to rigorously assess student learning outcomes consistently across all formats. Institutions offering courses in accelerated or other non-traditional formats are expected to be especially diligent in documenting that students in these courses master the skills and knowledge expected of students in traditional courses.

### 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.

### PREREQUISITES AND CO-REQUISITES

Enrollment in some courses is restricted to students who have taken or are taking 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. In general, prerequisites are courses or conditions that must be completed **prior to** enrollment in a particular course; co-requisites are courses or conditions that must be taken **simultaneously with** another course. Prerequisites and co-requisites are listed with the course descriptions.

### GRADING SYSTEM

Academic performance is evaluated using the following table:

GRADES USED IN CALCULATING GPA		
GRADE	NOTE	PTS/HR
A	EXCELLENT	4
B	GOOD	3
C	AVERAGE	2
D	BELOW AVERAGE	1
F	FAILURE	0

GRADES USED IN CALCULATING GPA	
GRADE	NOTE
S	SATISFACTORY
U	UNSATISFACTORY
P	PASS
NP	NO PASS

SYMBOLS USED TO INDICATE COURSE STATUS	
SYMBOL	NOTE
I	INCOMPLETE
AW	ADMINISTRATIVE WITHDRAWAL
AU	AUDIT
W	WITHDRAWAL
NR	GRADE NOT REPORTED
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 Vice President for Academic Affairs to indicate that the student was administratively withdrawn for disciplinary or financial reasons or inadequate attendance.

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

**Changing an "I".** It is the responsibility of the student to satisfy the requirements specified by the instructor at the time of the assignment of the "I". It is the responsibility of the instructor to submit a "Grade Correction" form to the Registrar. Students who receive an "I" will have no more than one year from the end of the semester in which the course was taken to complete the required work for the course. If, by the end of the year, no change in grade has been submitted, the grade of "I" will become permanent. In no case will an "I" be changed to an "F" after a student has graduated. "I" grades are neutral and not counted in GPA calculations.

**Changing Grades Reported in Error.** The only reason to change a grade is to correct a grade reported in error. The

instructor who submitted final grades may make such a change by submitting to the Registrar a "Grade Correction" form signed by his/her chair and dean. In the event of the instructor's absence, death, or disability, the grade may be changed by someone authorized by the President of the University with the advice of the Academic Appeals Committee to act in the instructor's behalf.

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

## 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 GPA 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. Academic notice is not recorded on the transcript.

**Academic Probation.** A student who fails to meet the retention standards will be placed on academic probation and will remain on probation until the applicable retention standard is met or he/she is placed on academic suspension. Academic probation is recorded on the transcript.

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

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

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

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

(2) Students suspended at the end of a spring semester may appeal to enroll in the summer session. Students in this category are automatically reinstated upon review and approval of a student's summer enrollment schedule by a designated member

or members of the Academic Appeals Committee. Approved summer schedules will be limited to core academic courses that meet general education or degree requirements. To continue in the fall semester these students must make at least a 2.0 GPA in the summer session. Students who do not raise their cumulative GPA to retention standards in the summer session will be enrolled on probation in the fall semester. Students who fail to achieve a 2.0 or higher GPA in the summer session will remain suspended and may not be reinstated until after one regular semester.

Should a reinstated student be suspended a second time, s/he cannot return to the University until such time as s/he has demonstrated, by attending another institution, the ability to succeed academically by raising her/his GPA to retention standards.

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

## SUBSTITUTION AND WAIVER OF COURSES

Petitions to substitute or waive courses designated as necessary to fulfill general education requirements must be approved by the Vice President for Academic Affairs or designee. 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 Undergraduate Course Substitution/Waiver Request form. Permission for any other exception to stated requirements must be initiated through the dean responsible for the student's major program and approved by the Vice President for Academic Affairs.

## ADVANCED STANDING CREDIT

Extra-institutional learning is defined as learning attained outside the sponsorship of accredited postsecondary institutions. Cameron awards advanced standing credit for Extra-institutional 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 [Testing Center](#).

## HONORS COURSES

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

## 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. An academic advisor is also available on the Cameron University-Duncan campus.

## ACADEMIC FORGIVENESS POLICY

The policy provides a means for classifying courses as either "reprieved", "renewed", or "forgiven" and for excluding them from retention/graduation GPA 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 GPA 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.

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

## DEVELOPMENTAL COURSES

Developmental courses are taken to prepare students for college level work. The course cannot be used to meet degree requirements. All developmental coursework must be completed within the first twenty-four collegiate hours attempted. Two or more unsuccessful attempts in certain developmental courses will require concurrent enrollment and successful completion of a one-hour mandatory tutoring course in addition to enrollment in the developmental course. Successful course completion requires a grade of "C" or better.

## ACADEMIC TRANSCRIPT

The transcript is a full and accurate accounting of the facts of a student's academic life. All courses, including those classified as developmental, reprieved, and forgiven, are recorded on the academic transcript.

## 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.

## THE DEAN'S AND PRESIDENT'S LIST

The Dean's List, published each semester, includes all full-time Cameron University students whose semester GPA is 3.0 or better. Full-time students earning a 4.0 semester GPA are included on the President's List. Full-time status is determined by semester earned hours in college credit classes.

## STUDENT PROGRAMS AND SERVICES

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

### REGIONAL RECRUITERS

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

### ORIENTATION

All students entering Cameron with fewer than 15 earned semester credit hours, have graduated from high school in the last two years, and are seeking a degree at Cameron University may be 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 Teaching and Learning](#) (581-5900) to register for an [orientation](#) or to request additional information.

### ACADEMIC ADVISING CENTER

The [Academic Advising Center](#) is a central location for academic information and resources for students. In addition to providing advising services to all new Cameron students, the Academic Advising Center helps students find the right major to meet their academic goals and interests. Students have access to Advising Specialists and Faculty Advisors who provide timely and accurate academic advising for students' academic success. The Academic Advising Center is located on the first floor of North Shepler and can be reached by calling 581-6741. An academic advisor for Cameron University-Duncan students is located on the Duncan Campus and can be reached by calling 877-282-3626.

### OFFICE OF FINANCIAL ASSISTANCE

The [Office of Financial Assistance](#) provides financial counseling, administers scholarships, grants, loans and student employment. Interested students should reference the Financial Information section of this catalog. For further information on application procedures, contact the Financial Assistance Office, 581-2293, or [financialaid@cameron.edu](mailto:financialaid@cameron.edu).

### ON-CAMPUS HOUSING

Living on campus provides the opportunity for involvement within a living-learning community of like-minded students. Cameron University provides two great options for on-campus living: Cameron Village and Shepler Center. Cameron Village combines all the amenities of an apartment complex with the

convenience of on-campus living. Shepler Center, comprised of two ten-story high-rises, provides Cameron students with a more traditional living-learning environment. Contact [Student Housing](#) (581-2392; [housing@cameron.edu](mailto:housing@cameron.edu)) for further information about living on campus.

### INCLUSION AND STUDENT SUCCESS

The Office of Student Development develops programs that foster inclusion and achievements of all of our students at Cameron University. We offer comprehensive workshops, programs and training opportunities for student engagement, student success, as well as global learning, cultural understanding and professional development. [The Office of Student Development](#) and our student organization, the Cameron University [Diversity Diplomats](#) seek to foster equity, innovation and increase competencies among students in order to cultivate an inclusive and progressive university. For additional information, please call 581-2209 or e-mail [student.development@cameron.edu](mailto:student.development@cameron.edu).

### DISABILITY SERVICES

Cameron University recognizes that all students deserve an equal opportunity to participate in university life and attain a higher education. The [Student Development Office](#) coordinates accommodations for students with disabilities and develops programs to support disability awareness. If an accommodation on the basis of a disability is required, please contact the office prior to the start of the semester or as soon as possible to complete the required documentation for accommodations. Please contact the office immediately (581-2209, [student.development@cameron.edu](mailto:student.development@cameron.edu)) if you have any concerns or problems with an accommodation or need more information.

### TESTING CENTER

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

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

Cameron University–Duncan’s Testing Center offers the Residual ACT, CPT, and also furnishes proctors for both computer-based tests for Cameron and other universities. For scheduling or more information, call 877-282-3626 or email [Duncan@cameron.edu](mailto:Duncan@cameron.edu).

### CAREER SERVICES

[Career Services](#) assists students in achieving their career goals. Career planning is provided for students in a variety of formats including online job postings, an online self-assessment and career inventory, and programs to assist in developing a resume, cover letter and interviewing skills. For more information, contact Career Services, located in the Office of Student Development, North Shepler, Room 314 (581-2209, [hirecameronaggies@cameron.edu](mailto:hirecameronaggies@cameron.edu)).

### TRIO PROGRAMS

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

#### Student Support Services

A part of the Cameron campus since 1987, [Student Support Services](#) (SSS) offers academic advisement, enrollment, peer mentoring, free tutoring, financial aid information, SSS section classes, and a variety of enrichment workshops and cultural activities to Cameron participants. Participation in SSS provides personal and academic enrichment for students who may face economic, social, and cultural barriers to higher education. SSS maintains information on campus and community resources and refers members to appropriate offices and agencies.

Applicants to the program must be a U.S. citizen or permanent resident AND meet at least one of the following criteria:

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

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

#### Open Doors

[Open Doors](#) (Educational 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 personal, career, and academic counseling for low-income, disadvantaged Lawton Public School, college-bound, high school students. For more information, contact Upward Bound in room 408 North Shepler, 581-5581.

### ACADEMIC SUPPORT SERVICES

[The Center for Academic Success](#). Located on the first floor of Nance-Boyer Hall, the Center for Academic Success is open to all Cameron students, providing assistance to students in all disciplines with an emphasis on general education courses. Center staff are available to help with general tutoring, computer literacy, study skills, time management skills, and test preparation strategies. Computers are available for students to access the internet and email accounts and do basic word processing and spreadsheets.

[The Language Learning Center](#). The Language Learning Center is located on the second floor of Nance Boyer Hall in

Room 2005. The laboratory has eight computerized listening/respond/record stations, two video stations, and three additional computer workstations, and is staffed by a full-time lab director. Although the laboratory is primarily for the use of students enrolled in foreign language classes, other students may also use media programs available in more than thirty-six foreign languages.

[Center for Writers](#). The Center for Writers is located on the second floor of Nance Boyer Hall in Room 2060. The center is open to all Cameron students, offering assistance for writing assignments of any kind, including course papers and applications for scholarships, awards, and graduate and professional schools. The Center for Writers provides individual tutorial help, assistance with word processing, and access to software and printed material addressing critical-thinking skills, usage, grammar, vocabulary, documentation of research, development of personal style, and all stages of the writing process from pre-writing through final draft. Computers are available for students to access the Internet and e-mail accounts and to do word processing. Similar services for a variety of writing assignments are available for Duncan campus students in the Tutorial Lab at Cameron University–Duncan. Call 877-282-3626 for more information and scheduling.

[The Mathematics Tutorial Laboratory](#). Located in Burch Hall 104, the Mathematics Tutorial Laboratory is available to students who are enrolled in lower level mathematics classes through MATH 2713 (Elementary Calculus). The lab is staffed by undergraduate students under the supervision of the Math Lab Director. While students may obtain assistance on a walk-in basis, it is recommended that they call for an appointment (581-2484). The informal atmosphere of the lab allows the students to work on homework assignments alone or with classmates and have immediate assistance available from the math tutors on duty. Participation by students is strictly voluntary and may be on an irregular, drop-in basis or appointments can be made for a specific time. [Cameron University-Duncan's Tutorial Lab](#) offers similar services for Duncan area students. Lab hours are posted [online](#) and no appointment is necessary.

[Cynthia Ross Hall Laboratory](#). The Ross Hall Laboratory is located on the first floor of the School of Graduate and Professional Studies, Room 100.

[The Sarkeys Foundation Student Computer Lab](#). The Sarkeys Foundation Student Computer Lab, located in Academic Commons, is an open lab intended to serve the computing needs of students and faculty. Resources are available on a first-come, first-served basis at the convenience of users. All users must be able to justify their use of the lab. The Lab also proctors on-line tests.

## LIBRARY

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

[Cameron University Library](#) promotes scholarly inquiry and work by providing materials and services associated with the access and use of information. Access to print and electronic materials is available in the physical library and through the library's webpage. The library houses comfortable work areas, a fully-equipped computer lab, and a group of friendly staff members trained to assist Cameron University patrons with their library needs.

## RESEARCH

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

## HONOR SOCIETIES

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

Phi Kappa Phi, recognizing outstanding juniors, seniors, and graduate students from all disciplines, and

Phi Eta Sigma, a national college scholastic honor society for freshmen.

For information on Cameron honor societies acknowledging outstanding achievement in specific disciplines, please contact the Honors Program, 581-2284.

## CAMPUS LIFE

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

Cameron recognizes more than 80 student organizations with varying interests. The focus of the groups range from academic to social and from religious to political. Students interested in joining or starting a group should contact [Campus Life](#) (581-2217) for assistance.

### Student Activity Facilities

The [Office of Campus Life](#), located in the McMahon Centennial Complex on University Drive, is the seat of all campus activities and houses the offices of the Programming Activities Council and the Student Government Association.

The McMahon Centennial Complex is Cameron's state-of-the-art student activities complex, featuring a game area, food court, McCasland Ballroom, Cameron University Bookstore, meeting rooms, the Inasmuch Foundation Art Gallery, and more.

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

Cameron Stadium is a bowl type modern football field, with artificial turf and 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.

McMahon Field and Athletics Center is a sports complex complete with dressing and locker rooms for the team and umpires, a press box, a concession facility, an equipment storage room, covered bleachers, landscaped patio spaces with sun shades for additional viewing areas, an indoor practice facility

with batting cages for both baseball and softball, indoor hitting for golf and a new weight room for all Cameron athletes.

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

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

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

Students who attend the [Cameron University–Duncan](#) campus may use the [Simmons Center](#) in Duncan for recreation and fitness classes. Online students who live in the Duncan area may also qualify for Simmons Center membership. More information is available [online](#) or by calling the Duncan campus at 877-282-3626.

Accommodations on the basis of disability at any campus facility are available by contacting the [Office of Student Development](#) at 580-581-2209, North Shepler Room 314, or by e-mail at [student\\_development@cameron.edu](mailto:student_development@cameron.edu).

### Programming Activities Council

The mission of the [Programming Activities Council \(PAC\)](#) is to improve the quality of activities and gain student input into the planning of programs, entertainment and activities. PAC provides activities such as comedians, hypnotists, concerts, and trips for the University. Major events for the entire campus are coordinated and implemented by the Council. For a complete list of activities sponsored by PAC, call 581-2271 or go [online](#). Cameron University-Duncan's PAC provides a variety of activities on the Duncan campus. For more information about the Cameron University-Duncan PAC, call 877-282-3626.

### Student Government

The [Student Government Association \(SGA\)](#) is the governing body representing all students in the shared governance process at Cameron University. 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 Association is to promote the interests and welfare of the student body. SGA officers can be reached by calling 580-581-2444.

### 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 Campus Life](#), 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 Arts and Sciences](#) offers a variety of arts activities and opportunities, which are open to all Cameron students regardless of major. The [Department of Art, Music, and Theatre Arts](#) sponsors frequent student gallery shows as well as workshops and exhibits by well-known visiting professionals. Cameron's award-winning [Speech and Debate Team](#) competes at the national level. Student musicians can choose from a wide

array of instrumental ensembles and choirs. The Department of Art, Music, and Theatre Arts also offers multiple annual musical and theatrical productions. Plays are offered yearly in Cameron's two theatres.

The [Office of Campus Life](#) and the [Office of Student Development](#) both bring prominent artists, programs, and seminars to the campus to provide a wide range of social and cultural events to Cameron University students, faculty, and staff.

### Intercollegiate Athletics

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

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

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

### Intramural Sports

The Intramural Sports program offers students, faculty and staff the opportunity to participate in many sports and activities on a competitive and recreational level. All skill levels are welcome and there is no fee to participate. Sports include flag football, basketball, bowling, golf, soccer and many more. For more information, contact Campus Life at 581-2217.

### 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 juniors and seniors chosen for this prestigious honor. Totalling approximately one percent of the student body, recipients are selected on the criteria of outstanding scholarship, leadership, citizenship and potential by a committee representing students, faculty, and staff.

## STUDENT PUBLICATIONS

### The University Newspaper

Founded in 1926, [The Collegian](#) is the official student newspaper of Cameron University. *The Collegian* is written, designed, edited, and produced by student editors for the students, faculty, staff, and administration of the university. *The Collegian* serves both as a voice for the students of the university, and as a training ground for student journalists to hone the skills they develop in their courses. *The Collegian* offices house all of the equipment and materials utilized during the production of the paper. Once the final product is ready to print, pages are sent digitally to an off-campus press. Students deliver papers across the campus and local communities on Mondays. *The Collegian*, programming from CUTV, and several wikis and blogs are presented through AggieCentral, Cameron's convergent

journalism website. *The Collegian* is a member of the Oklahoma Collegiate Press Association, Columbia Scholastic Press Association, the Society of Professional Journalists and the Oklahoma Interscholastic Press Association.

### The Oklahoma Review

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

### KCCU RADIO

[KCCU FM](#) is the public radio voice of Cameron University, featuring programming from NPR and other public radio sources. KCCU is a nationally recognized, award-winning public radio station that serves numerous communities from its studios on the Cameron campus. KCCU is also a leader in the broadcast industry in innovative uses of radio technology, including HD Radio. The following communities are served on these frequencies: KCCU Lawton broadcasts two channels of HD programming on 89.3 FM, and one channel of programming on 102.9 FM; KLCU Ardmore broadcasts two channels of HD programming on 90.3 FM; KMCU Wichita Falls Texas broadcasts two channels of HD programming on 88.7 FM; KZCU Woodward broadcasts on 95.9 FM; KYCU Western Oklahoma broadcasts on 89.1 FM; and KCCU Chickasha broadcasts on 100.1 FM. KCCU also streams two channels of programming on its [website](#). These stations, along with the website streaming, provide public radio service to a large section of Western, Southwestern, and South-central Oklahoma, and parts of North Texas. The station features NPR news; Texas/Oklahoma news; classical music; jazz; and other specialty programming. KCCU is operated by a professional staff with the assistance of Cameron University students enrolled in communication courses and other majors. KCCU hires part-time student production assistants and news reporters to give them professional experience in the broadcast industry, and utilizes student interns each semester who enroll in communication courses. KCCU is also an outreach for Cameron University, building upon the university's community service efforts. KCCU is a non-commercial public radio network that relies upon financial support from individual members, local businesses and area foundations.

### CUTV

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

### STUDENT HANDBOOK AND CONDUCT

The [Student Handbook](#) is an official publication of the University which explains University policies and procedures and provides University information for all aspects of University life. Students are responsible for knowing its contents. Copies are available upon request in the Office of Student Development,

Rules and regulations for the conduct of students attending Cameron University are listed in the *Student Handbook*. A

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

### ACCESS TO STUDENT RECORDS

Student records are filed in a variety of offices. 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 and Personally Identifiable Information.

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

Full name	Degrees and awards received
Mailing address	Dates of attendance
Telephone number	Date of graduation
Enrollment status	Major
Academic classification	Athletic program information
Previous institution most recently attended	Participation in officially recognized organizations, activities
Other similar information as permitted in the Family Education Rights and Privacy Act (FERPA) (Pub. L. 93-568, Sec. 99.3).	

*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 student conduct record kept in the Office of Student Development; and
3. the records of the various other University offices of Financial Assistance, Student Development, Public Safety and Student Housing, supervised by their respective directors.

To protect the rights 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 by FERPA. However, a student may choose to release information to a third party by completing a FERPA waiver. Forms and information are available in the [Office of Student Services](#), North Shepler 324, 581-2244.

Emergency situations may develop which could necessitate

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 release of the information. In cases where the responsible administrator is not available to make the decision, or, if s/he decides not to release the information, an appeal to secure the information may be made to the University President.

### **MCMAHON CENTENNIAL COMPLEX**

The facilities of McMahon Centennial Complex are open to Cameron University students, faculty, staff and guests.

### **CAMPUS DINING**

Food service is provided at two locations, the McMahon Centennial Complex which features a food court and the Shepler Cafeteria. The McMahon Centennial Complex offers such items as Pizza Hut, deli subs and sandwiches, hot grill items and “grab and go” pre-packaged salads, cakes and drinks. Items may be purchased using cash, credit, or your AggieOne card. The Shepler Cafeteria, located between the two Shepler towers, provides meals for resident students. This cafeteria operates on an “all you can eat” basis. Commuter meal plans are also available.

### **BOOKSTORE/POST OFFICE**

The [Cameron University Bookstore](#) is conveniently located in the McMahon Centennial Complex. Here students will find their required course materials as well as a selection of recommended study aids, basic school supplies, educationally priced software, and electronic equipment.

In addition to textbooks, the Bookstore carries a wide selection of clothing and gift which students can purchase to show their school spirit. The Bookstore also stocks a selection of trade books with emphasis on nursing, computers, ethnically diverse interests and local/faculty authors. Students will find a selection of candy/snacks and cold drinks for purchase as well.

Graduation regalia, class rings, diploma frames and announcements are also available through the Cameron Bookstore. Special orders can also be placed at no additional charge. Students can shop the [bookstore on-line](#) as well.

The Cameron University Post Office is located in the McMahon Centennial Complex inside the Bookstore. Patrons can purchase postage here as well as money orders and post outgoing mail and packages.

### **CASHIERS AND “ONE STOP”**

Cashiers for Cameron University are located at “One-Stop” located in the McMahon Centennial Complex. Cashiers are responsible for releasing to students all financial assistance checks, such as loans, grants, scholarships and work study. For faculty, staff, and students, this convenient location also accepts payments for charges incurred at the University and issues parking permits and ID cards. Cash, personal checks, and credit card payments using MasterCard, Visa and Discover are accepted.

### **STUDENT WELLNESS CENTER**

Cameron's [Student Wellness Center](#), located on the first floor of North Shepler, offers medical care to students for acute conditions, mental health counseling, monthly education programs, and interactive workshops. The Student Wellness Center is open from 8 a.m. – 5 p.m. Monday through Friday.

Medical services are provided on a walk-in basis. Counseling services are provided by appointment only.

All students who are actively enrolled on the main campus are eligible for medical services. All students who are enrolled at least one-half time on the Lawton or Duncan campuses are eligible for counseling services.

### **HEALTH INSURANCE**

The University recommends that all students acquire some form of health insurance to meet unexpected medical needs.

Please note that all international students attending Cameron are required to enroll in the Student Health Insurance Plan through Academic Health Plans. For information about this requirement or to request a waiver, please contact the [International Admissions Office](#) at 581-2838 or [international@cameron.edu](mailto:international@cameron.edu).

### **CAMERON UNIVERSITY ALUMNI ASSOCIATION**

The purpose of the [Alumni Association](#) is to cooperate with and assist in the promotion of the goals and purposes of Cameron University, to encourage a continuing and increasing interest in the University among graduates, former students and friends, and to foster acquaintance and good fellowship through information, education and service. Membership is open to anyone interested in supporting the Association. Projects include reunions, alumni and faculty awards. A benefit golf tournament and a membership drive support scholarships and various other campus activities. Further information may be obtained by contacting the CU Alumni Association, [Office of Alumni Relations](#); 580-581-2988; or [alumni@cameron.edu](mailto:alumni@cameron.edu).

## GENERAL EDUCATION REQUIREMENTS

### BACCALAUREATE AND ASSOCIATE IN SCIENCE DEGREES (44-46 HOURS)

Note: Some major programs specify the course to be selected within categories. Please refer to the major to determine if specific courses are required.

#### COMMUNICATION ..... 9 hours

ENGL 1113  
ENGL 1213  
COMM 1113

#### MATHEMATICS ..... 3-5 hours

MATH 1413, MATH 1513, MATH 1613, MATH 2215, MATH 2713, or STAT 1513

#### SCIENCE\* ..... 8-9 hours

One course must be taken from each of the following two categories:

*Biological Science (4 hours):* BIOL 1004\*, BIOL 1114\*, BIOL 1214\*, BIOL 1364\*, or ENSC 2004

*Physical Science (4-5 hours):* ASTR 1104, CHEM 1004, CHEM 1105\*, CHEM 1364/1361\*, ESCI 1135\*, GEOL 1014\*, PHYS 1004, PHYS 1115\*, or PSCI 1054

\*One course **must** be a laboratory science.

#### AMERICAN HISTORY ..... 3 hours

HIST 1483 OR HIST 1493

#### POLITICAL SCIENCE ..... 3 hours

PS 1113

#### HUMANITIES ..... 6 hours

One course must be taken from each of the following two categories with no more than one course taken from the discipline in which the student is majoring:

*Diversity (3 hours):* ARBC 1113, ARBC 1223, CHNS 1113, CHNS 1223, ENGL 2313\*, ENGL 2323\*, ENGL 2343\*, FNAR 1013\*, FREN 1113, FREN 1223, GEOG 2243, GERM 1113, GERM 1223, HIST 1113, HIST 1123, HIST 2113, HIST 2223, HON 2113, HON 2123, ITAL 1113, ITAL 1223, LATN 1113, LATN 1223, MUSC 1033\*, PHIL 1113, RUSN 1223, SOCI 3013, SPAN 1113, or SPAN 1223

*Aesthetics (3 hours):* ART 1013, ART 2613, ART 2623, ENGL 2013, ENGL 2053, ENGL 2313\*, ENGL 2323\*, ENGL 2343\*, FNAR 1013\*, HUM 2113, HUM 2223, MUSC 1013, MUSC 1023, MUSC 1033\*, MUSC 1413, or THTR 1103

\*Courses listed in both categories may only be used to fulfill one category.

#### BEHAVIORAL SCIENCE ..... 3 hours

FAMS 1123, HON 2133, PSY 1113, or SOCI 1113

#### ECONOMICS ..... 3-4 hours

AGRC 1334, CRM 3603, ECON 2013, or GEOG 3023

#### HEALTH AND WELLNESS\* ..... 4 hours

HLTH 1012, HLTH 1053, HLTH 1063, any course with the following form: PE 1--1, PE 2--1, PE 2--2

\*Requirement waived for students who are awarded credit based on one year of active full-time military service, completion of basic training, or successful completion of the ROTC program.

#### GENERAL EDUCATION NON-PE ELECTIVES (TO TOTAL AT LEAST 44 HOURS)\*

\*Gen Ed electives must be selected from the above list of approved courses, exclusive of courses with the PE prefix.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (18 HOURS)

Eighteen (18) hours of General Education are required of each person who receives an Associate in Applied Science Degree from Cameron University.

### GENERAL EDUCATION PURPOSE AND OUTCOMES BACCALAUREATE AND ASSOCIATE IN SCIENCE PROGRAMS

The General Education program at Cameron University is a selection of courses designed to provide students with the common knowledge, intellectual concepts, breadth of skills and attitudes that every college graduate with a baccalaureate or Associate in Science degree should possess. By the time students complete the general education program for baccalaureate and AS programs, they should be able to:

- Access information from reliable sources and use it effectively and responsibly;
- Effectively communicate in written and oral forms;
- Apply critical thinking skills to make informed decisions and evaluations;
- Demonstrate an understanding of ethical conduct in a defined context;
- Demonstrate knowledge of similarities and differences among cultures;
- Make informed and reasoned responses to questions of aesthetics;
- Apply knowledge and logic to solve problems;
- Demonstrate knowledge and skills needed to maintain a healthy lifestyle.

General education courses help students develop the skills essential for Information Literacy, Communication, Critical Thinking, Ethics, Diversity, Aesthetics, Problem Solving, and Wellness.

In accordance with its mission, Cameron University's baccalaureate and AS programs are designed to prepare students for professional success, responsible citizenship, life-long learning, and meaningful contributions to a rapidly changing world. A university degree should go beyond preparing graduates for a profession; it should transform their lives and their communities.

### GENERAL EDUCATION PURPOSE AND OUTCOMES

#### ASSOCIATE IN APPLIED SCIENCE PROGRAMS

By the time students complete the general education program for Associate in Applied Science programs, they should be able to:

- Access information from credible sources and use it effectively and responsibly;
- Effectively communicate in written and oral forms;
- Apply critical thinking skills to make informed decisions and evaluations;
- Demonstrate an understanding of ethical conduct in a defined context.

General education courses for AAS programs help students develop the skills essential for Information Literacy, Communication, Critical Thinking, and Ethics.

## UNIVERSITY REQUIREMENTS

### UNIVERSITY SUCCESS

To better acquaint students with the educational and social environment of Cameron University, provide the skills necessary for transition to university life, and prepare students for college success, all entering freshman students will be required to successfully complete one of two university success courses. All entering freshman students, including transfer students with fewer than 24 earned collegiate hours, **without** performance or curricular deficiencies will be required to enroll in UNIV 1001, Introduction to University Life. All entering freshman students and transfer students **with** developmental course needs will be required to take UNIV 1113, Study Strategies for College Success.

### COMPUTER LITERACY

All undergraduate degree programs require students to achieve a minimum level of computer literacy. The means by which students acquire or demonstrate such literacy varies among programs, but acceptable means include (1) successfully completing a high school computer science course that meets State Regents' high school curricular requirements, or (2) satisfactorily completing a computer literacy assessment; or (3) successfully completing courses designated as program requirements. Courses such as CIS 1013 Introduction to Computer Information Systems, and MIS 2113 Microcomputer Applications typically satisfy computer literacy requirements. However, some programs require specific courses to fulfill the computer literacy requirement. Please see the program requirements for each major for details.

### CAPSTONE EXPERIENCE

The undergraduate capstone experience is designed to bring reflection and focus to the whole of the university experience. It should encourage students to integrate and synthesize aspects of their chosen field of study with important concepts from related disciplines and provide resources for careers, professional programs, and graduate school. Assessment measures such as standardized tests or required key assignments may be required as part of the capstone experience.

Each department or program has designed the capstone experience for its majors to assist them in developing a broader understanding of the significance of the major within the framework of their overall undergraduate experience. This culminating experience should focus on some feature of the student's chosen field of study and should require the disciplined use of skills, methodology, and knowledge taught throughout the undergraduate curriculum.

Examples of possible capstone experiences include, but are not limited to, the following:

- A comprehensive examination.
- A senior seminar that requires a major project.
- An undergraduate thesis.
- A semester project that culminates in a paper, essay, presentation or similar product.
- An internship to investigate a problem in the workplace, and a paper that asks students to analyze and evaluate the experience.
- A performance, show or recital appropriate to the discipline, together with relevant supporting assignments.

Using one or more of the above components also allows departments to assess the effectiveness of their major programs and evaluate the learning of each student. All baccalaureate degree students must complete at least one credit hour in a capstone experience in his or her declared major. Please see the program requirements for each major for details.

## TEACHING AND LEARNING

**Margery Kingsley–Assistant Vice President for  
Academic Affairs**

**Maureen DuRant–Instructor  
Jason Poudrier–Instructor  
Corey Sanders–Instructor**

**CENTER FOR ACADEMIC SUCCESS  
Colleen Carter–Director**

**CENTER FOR WRITERS  
Carolyn Kinslow–Director**

**MATHEMATICS LABORATORY  
Colt Meyer–Director**

**STUDENT SUPPORT SERVICES  
Doreen Thomas–Director**

**TESTING CENTER  
Lorinda Rogers–Director**

The [Office of Teaching and Learning](#) fosters student success in and beyond the first year of college by providing quality academic advising and discipline-specific tutoring, targeted university success coursework, and other academic support resources to assist both students and faculty.

## COURSE DESCRIPTIONS

### UNIVERSITY (UNIV)

**1001 INTRODUCTION TO UNIVERSITY LIFE.** 1 credit hour. 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. Restricted to those students required to take the course. Lecture 1 hour.

**1113 STUDY STRATEGIES FOR COLLEGE SUCCESS.** 3 credit hours. This course is designed to prepare 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. Restricted to those students required to take the course. Lecture 3 hours.

## SCHOOL OF GRADUATE AND PROFESSIONAL STUDIES

**F. Howard Kuchta–Interim Dean**

DEPARTMENT OF BUSINESS  
**John Courington–Interim Chair**

DEPARTMENT OF COMPUTING AND TECHNOLOGY  
**Mike Estep–Chair**

DEPARTMENT OF EDUCATION  
**Jennifer Dennis–Chair**

**Ramona Mott–Teacher Certification Specialist**

DEPARTMENT OF PSYCHOLOGY  
**Mary Dzindolet–Chair**

DEPARTMENT OF SOCIAL SCIENCES  
**Lance Janda–Chair**

DEPARTMENT OF SPORTS AND EXERCISE SCIENCE  
**Stephanie Boss–Chair**

The mission of the [School of Graduate and Professional Studies](#) is to provide a diverse and dynamic student body the opportunity to acquire a wide range of knowledge and skills so they can contribute to their profession and enrich their lives. The School provides undergraduate course work in the fields of Business, Computing and Technology, Education, Social Sciences, Sports and Exercise Science, and Psychology. These primary areas of study encompass several specialties. 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 practical experiences as a regular part of the educational process.

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

## DEPARTMENT OF BUSINESS

Interim Chair–John Courington, Professor  
Professors: S. Ahmed, Steyn, Sukar  
Associate Professors: Burgess, Masters, Walton  
Assistant Professors: Billiot, Brue, Qayyum, Soylu, Treadwell  
Instructors: Lonzanida

The [Department of Business](#) offers programs leading to an Associate in Science in Business degree, a Bachelor of Accounting degree, and a Bachelor of Business Administration degree with a specialization in one of the following: General Business Administration, Finance, Management, or Marketing. Details about the Master of Business Administration and Master of Science in Organizational Leadership, also offered by the Department of Business, are available in the [Graduate Catalog](#).

### ASSOCIATE IN SCIENCE MAJOR IN BUSINESS (505)

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires specific General Education courses in Mathematics (MATH 1513), Behavioral Science (PSY 1113 or SOCI 1113), and Economics (ECON 2013).
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS (24 hours)**
  - A. **Required Courses (21 hours)**  
BUS 1113, ACCT 2013, ACCT 2023, ECON 2023, FIN 2113, BUS 2113, BUS 2903
  - B. **Additional Requirements (3 hours)**  
MIS 2113
- IV. **ELECTIVES TO COMPLETE 69 HOURS REQUIRED FOR GRADUATION**

### BACHELOR OF ACCOUNTING DEGREE MAJOR IN ACCOUNTING (305)

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires specific General Education courses in: Mathematics (MATH 1513 or MATH 2713), Behavioral Science (PSY 1113 or SOCI 1113), and Economics (ECON 2013).
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS (71 hours)**
  - A. **Core Courses (32 hours)**  
ACCT 2013, ACCT 2023, ECON 2023, BUS 2113, MGMT 3013, BUS 3213, MKTG 3413, FIN 3603, BUS 4632, BUS 4633, STAT 2613
  - B. **Specialization (Accounting) (24 hours)**  
ACCT 3013, ACCT 3023, ACCT 3133, ACCT 4013, ACCT 4213, ACCT 4513 (18 hours)  
Upper Division Accounting Electives (6 hours)
  - C. **Additional Requirements (15 hours)**  
BUS 1113, FIN 2113, MATH 2713, MIS 2113, MIS 3013
- IV. **ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

## BACHELOR OF BUSINESS ADMINISTRATION MAJOR IN BUSINESS ADMINISTRATION (320)

### I. GENERAL EDUCATION REQUIREMENTS (44 hours)

This program requires specific General Education courses in Mathematics (MATH 1513 or MATH 2713), Behavioral Science (PSY 1113 or SOCI 1113), and Economics (ECON 2013).

### II. UNIVERSITY REQUIREMENTS (1-3 hours)

UNIV 1001 or 1113

### III. MAJOR REQUIREMENTS (68 hours)

#### A. Core Courses (32 hours)

ACCT 2013, ACCT 2023, ECON 2023, MGMT 3013, MKTG 3413, FIN 3603, BUS 2113, BUS 3213, BUS 4632, BUS 4633, STAT 2613

#### B. Specialization (15 hours)

Business Administration majors must complete one of the following areas of Specialization.

**General Business Administration:** Upper Division Electives (15 hours): 3 hours each from ACCT, BUS, FIN, MGMT, or MKTG prefixes.

**Management:** MGMT 3513, MGMT 3613, MGMT 4013, and Upper Division MGMT Electives (6 hours).

**Finance:** FIN/ECON 3313, FIN 3623, FIN 4333, FIN 4473, and Upper Division Finance Elective (3 hours).

**Marketing:** MKTG 3423, MKTG 3433, MKTG 4433, MKTG 4443, Upper Division MKTG Elective (3 hours).

#### C. Additional Requirements (21 hours)

BUS 1113, FIN 2113, MATH 2713, MIS 2113, MIS 3013, Upper Division BUS Electives (ACCT, BUS, ECON, FIN, MGMT, or MKTG prefixes) (6 hours)

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

## COURSE DESCRIPTIONS

### ACCOUNTING (ACCT)

**2013\* PRINCIPLES OF FINANCIAL ACCOUNTING** 3 credit hours Basic principles of financial accounting, including how to record transactions, prepare financial statements, analyze selected accounts and use accounting information in decision-making. Lecture 3 hours. Prerequisite: sophomore standing or advisor consent.

**2023\* PRINCIPLES OF COST/MANAGERIAL ACCOUNTING** 3 credit hours Basic principles of cost accounting related to manufacturing and other enterprises. Use of management and cost accounting information in decision-making. Lecture 3 hours. Prerequisite: ACCT 2013.

**3013 INTERMEDIATE ACCOUNTING I** 3 credit hours A review of the fundamental processes of accounting with an emphasis on the basic accounting process, procedures and working papers, statements, cash receivables, liabilities, and inventory pricing and planning. Lecture 3 hours. Prerequisite: ACCT 2023.

**3023 INTERMEDIATE ACCOUNTING II** 3 credit hours Continuation of Intermediate 3013, with emphasis on corporation capital stock, retained earnings, dividends, income taxes, and analysis and interpretation of accounting data. Lecture 3 hours. Prerequisite: ACCT 3013.

**3113 FRAUD EXAMINATION** 3 credit hours A study of occupational fraud including the pressures that compel potential fraudsters to commit fraud, how fraudsters rationalize their fraudulent acts, and how they find access to business assets. In addition, students will gain in-depth understanding of internal

controls necessary to prevent fraud and deter fraudsters. Lecture 3 hours. Prerequisite: ACCT 2023.

**3133 COST ACCOUNTING** 3 credit hours Cost accounting systems that assist management in planning, decision-making and control. Cost-volume-profit analysis, cost behavior, standard job order and process costing, and inventory control using Just-in-Time analysis. Lecture 3 hours. Prerequisite: ACCT 2023.

**3313 GOVERNMENTAL ACCOUNTING** 3 credit hours Accounting for governmental and non-profit entities. Analysis of budget systems, the use of funds, internal and external reporting requirements, and governmental accounting terminology. Lecture 3 hours. Prerequisite: ACCT 2023.

**4013 INDIVIDUAL INCOME TAX** 3 credit hours Federal income taxation of individuals; current tax laws and tax return preparation. Lecture 3 hours. Prerequisite: 12 hours of accounting.

**4023 CORPORATE INCOME TAX** 3 credit hours Federal taxation of partnerships and corporations; gift and estate taxes. Lecture 3 hours. Prerequisite: ACCT 4013.

**4113 ADVANCED ACCOUNTING** 3 credit hours Accounting for business combinations, multinational operations, partnerships and insolvent organizations; interim and segmental reporting. Lecture 3 hours. Prerequisite: ACCT 3023.

**4213 AUDITING** 3 credit hours The theory of and practices used in external audits. Coverage includes: audit planning, generally accepted auditing standards, collection and evaluation of audit evidence, understanding and testing of internal controls, risk assessment, transaction cycles, working papers, audit reports, professional responsibilities, and audit sampling. Lecture 3 hours. Prerequisite: ACCT 3023 and ACCT 4513.

**4471-3 SEMINAR IN ACCOUNTING** 1-3 credit hours Seminar presentation and special studies in topics of current interest to the accounting professional. Seminar 1-3 hours. Prerequisite: Permission of the Chair.

**4483 ACCOUNTING INTERNSHIP** 3 credit hours Supervised work experience in an organization. The internship will allow students to encounter practical workplace problems in accounting and gain experience in working in a professional setting. A minimum of 150 hours of on-the-job training is required to complete the course. Internship 3 hours. Prerequisites: Senior Accounting major with at least a 3.0 GPA and departmental permission.

**4513 ACCOUNTING INFORMATION SYSTEMS.** 3 credit hours Structure, flow and use of accounting data and its relationship with other systems in a firm; systems design, analysis and security issues. Practical experience with a commercial accounting software package. Lecture 3 hours. Prerequisite: ACCT 3013 and MIS 3013.

### BUSINESS (BUS)

**1113\* INTRODUCTION TO BUSINESS** 3 credit hours A general survey of the more significant principles, problems, and practices involved in the administration of business enterprises. Students learn about the functional areas of business enterprises (Accounting, Economics, Finance, Management, and Marketing). Intended for Freshman or Sophomore students. Lecture 3 hours.

**2113\* BUSINESS COMMUNICATIONS** 3 credit hours Principles of effective business communication; organizational communication theory; document design; practice in preparing letters, memoranda, business reports, and employment-related messages; professional oral presentations. Lecture 3 hours. Prerequisite: ENGL 1213 or equivalent.

**2211-3 SPECIAL STUDIES** *1-3 credit hours* 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. Lecture 1-3 hours. Prerequisite: As listed for each separate offering and/or permission of the Chair.

**2903\* MANAGEMENT SKILLS** *3 credit hours* This course covers fundamental management processes in organizations as well as career planning and professionalism. Capstone/lecture 3 hours. Prerequisites: BUS 1113 and BUS 2113.

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

**3223 BUSINESS LAW II** *3 credit hours* 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.

**3881-4 WORKSHOP** *3 credit hours* 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. Lecture 1-4 hours. Prerequisites: Junior standing and permission of the Chair; permission of the Chair if taken for no credit.

**4023 BUSINESS OPERATIONS RESEARCH** *3 credit hours* Managerial decision-making processes and techniques. Includes a discussion of the environment of decision-making with emphasis on quantitative techniques such as linear programming, queuing theory, game theory, PERT analysis, Markov analysis, and inventory models. Lecture 3 hours. Prerequisite: STAT 2613.

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

**4481-3 BUSINESS INTERNSHIP** *1-3 credit hours* Supervised work experience in a professional setting directly relating to the student's business discipline. The internship will allow students to encounter practical workplace situations within their major field and gain experience in corporate and other business settings. Student may earn up to 6 internship credit hours; however, a maximum of 3 credit hours can be earned at one business. Fifty hours of on-the-job training/work is required per credit hour for a maximum of 3 credit hours per semester. Internship 1-3 hours. Prerequisite: Department permission.

**4491-3 INDEPENDENT STUDY IN BUSINESS** *1-3 credit hours* Independent readings and/or study of specific problems or special subjects, based on pre-approved outlines of plans, with conferences and/or written reports. Independent study/directed readings 1-3 hours. Prerequisites: 9 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.

**4632 BUSINESS CAPSTONE: PROFESSIONALISM & CAREERS** *2 credit hours* This course is the career and professionalism portion of the capstone for the Bachelors' degrees in Business. The students apply knowledge from their degree programs to career planning and professional skills development. Capstone/lecture 2 hours. Prerequisites: FIN 3603, MGMT 3013,

MKTG 3413, graduating senior status, or permission of Chair. Co-requisite: BUS 4633.

**4633 BUSINESS POLICY** *3 credit hours* A capstone course designed to integrate course work in various functional areas of business. The focus of the course is understanding business strategy and competitive environment. Emphasis is on critical thinking and analysis, and decision making for business. Group projects, cases, business plan exercises and/or business simulations are used to give students an opportunity to draw upon and integrate functional knowledge and skills. Both written and oral communications are stressed throughout the course. Lecture 3 hours. Prerequisites: FIN 3603, MGMT 3013, MKTG 3413, and graduating senior status, or permission of Chair. Co-requisite: BUS 4632.

### **ECONOMICS (ECON)**

**2013\* PRINCIPLES OF MACROECONOMICS** *3 credit hours* An introduction to, and analysis of, the basic principles of supply and demand, national income accounting, business cycle, inflation, unemployment, determinants of the level of output, employment, prices, money and banking, monetary and fiscal policies, economic growth, international trade, and finance. Lecture 3 hours. General Education, Economics.

**2023\* PRINCIPLES OF MICROECONOMICS** *3 credit hours* Basic principles of supply and demand, elasticity, production and costs, market structure, output and price determination, factor market, welfare effects of government regulations, and theory and policy related to international trade. Lecture 3 hours. Prerequisite: ECON 2013.

**3013\* INTERMEDIATE MICROECONOMIC THEORY** *3 credit hours* This course is an extension of introductory microeconomics. The course will explore the decision making behavior of consumers and households and their interaction in the market place. The topics covered include consumer preference analysis and utility maximization; theory of a firm and production decision; different market structures and their implication for production, pricing, and distribution of goods. Other topics covered include input markets, government regulations, and strategic decision making. Lecture 3 hours. Prerequisite: ECON 2023 and MATH 1513 or higher.

**3023\* INTERMEDIATE MACROECONOMIC THEORY** *3 credit hours* National income concepts; aggregate demand by household, business, government, and foreign sectors; national income and employment determination in classical and Keynesian models; price level and inflation; money, interest rates and monetary policy; fiscal policy and public debt; exchange rate and balance of payments. Lecture 3 hours. Prerequisite: ECON 2023.

**3313\* MONEY AND BANKING** *3 credit hours* Evolution of money and banking; organization operation of chartered banks and other financial institutions; the role of the Federal Reserve System and financial institutions in the money supply process, demand for money; monetary policy, regulations of the financial system, foreign exchange market. Lecture 3 hours. Prerequisite: ECON 2023. (Cross-listed with FIN 3313.)

### **FINANCE (FIN)**

**2113 PERSONAL FINANCE** *3 credit hours* 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.

**3313\* MONEY AND BANKING** *3 credit hours* Evolution of money and banking; organization operation of chartered banks and other financial institutions; the role of the Federal Reserve

System and financial institutions in the money supply process, demand for money; monetary policy, regulations of the financial system, foreign exchange market. Lecture 3 hours. Prerequisite: ECON 2023. (Cross-listed with ECON 3313.)

**3603\* PRINCIPLES OF FINANCE** 3 credit hours An introductory course in financial management of a firm. Areas covered include an overview of financial management; financial markets, institutions and interest rates; time value of money, risk and return, valuation of stocks and bonds; long-term investment and financing decisions; working capital management and multinational financial management. Lecture 3 hours. Prerequisites: ACCT 2013 and MATH 1513 or higher.

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

**4333 FINANCIAL MANAGEMENT** 3 credit hours A detailed examination of financial management decision making techniques. Topics include cash and profit planning, asset management, capital structure, capital budgeting, and firm valuation, including mergers and acquisitions. Lecture 3 hours. Prerequisite: FIN 3603.

**4453 BOND ANALYSIS** 3 credit hours Participation in the management of the ongoing BancFirst-Cameron Foundation Investment Portfolio. Activities center on administering a diversified portfolio of fixed income assets. Lecture 3 hours. Prerequisite: FIN 3603.

**4553 STOCK ANALYSIS** 3 credit hours Participation in the management of the ongoing BancFirst-Cameron Foundation Investment Portfolio. This course provides an opportunity for students to refine skills and pursue intensive study of investment in common stock and derivative securities. Lecture 3 hours. Prerequisite: FIN 3603.

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

### **MANAGEMENT (MGMT)**

**3013\* PRINCIPLES OF MANAGEMENT** 3 credit hours An introductory management course dealing with the fundamental principles of management: planning, organizing, and controlling. Lecture 3 hours. Prerequisite: BUS 1113 and Junior standing or department permission.

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

**3613 OPERATIONS MANAGEMENT** 3 credit hours Management of operations in manufacturing and service systems. Includes product, process and job design; planning facilities, quality assurance, and control systems; improvement of processes; materials management; budgetary and cost control; and associated quantitative techniques. Lecture 3 hours. Prerequisites: MGMT 3013 and STAT 2613.

**3813 LABOR MANAGEMENT RELATIONS** 3 credit hours 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 credit hours 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 3013.

**4033 SMALL ENTERPRISE MANAGEMENT** 3 credit hours This course emphasizes principles and problems associated with starting and managing small enterprises. Lecture 3 hours. Prerequisite: MGMT 3013.

**4053 BUSINESS AND SOCIETY** 3 credit hours 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 3013.

**4443 PROJECT MANAGEMENT** 3 credit hours Investigation and study of projects in organizations. Includes technical aspects pertaining to managing complex projects and systems. Emphasis placed on integrative concepts including topics such as project selection; planning and organization; negotiation and conflict resolution; budgeting and cost estimation; scheduling; resource allocation; monitoring and control; project auditing; and project termination. Lecture 3 hours. Prerequisite: MGMT 3013.

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

### **MARKETING (MKTG)**

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

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

**3433 RETAILING** 3 credit hours An investigation of the retailing field examining retail strategy, merchandise management and store management. Lecture 3 hours. Prerequisite: MKTG 3413.

**3533 PERSONAL SELLING** 3 credit hours Students will learn how to become an effective sales professional through traditional and non-traditional approaches. Students will assess the current and potential value of an organization's offerings, develop skills in prospecting customers, craft unique selling propositions and design effective sales strategies to connect customers with needed satisfying products and services. Lecture 3 hours. Prerequisite: MKTG 3413.

**4433 ADVERTISING** 3 credit hour. A survey of the various advertising media with an emphasis on planning and evaluating advertising themes and campaigns. To this end, the various elements of advertising, the types of advertising, and the objectives of advertising will be examined. Lecture 3 hours. Prerequisite: MKTG 3413 or permission of the Chair.

**4443 MARKETING RESEARCH** 3 credit hours 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 3413 and STAT 2613.

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

**4553 SPORT MARKETING** *3 credit hours* A study of the business side of sports, including economic impact, the use of sports as a marketing tool for other products, the marketing of sports products, sport sponsorships, publicity, media and guest relations. Lecture 3 hours. Prerequisites: MKTG 3413 or HPET 3023.

**4613 SERVICES MARKETING** *3 credit hours* A study of the difference between expected and perceived service performance by investigating the listening gap, the service design and standards gap, the service performance gap and the communication gap. Lecture 3 hours. Prerequisite: MKTG 3413.

\*Liberal arts and sciences course.

## DEPARTMENT OF COMPUTING AND TECHNOLOGY

Chair—Michael Estep, Professor

Professors: Johari, Zhao

Associate Professors: Diaz-Gomez, Drissi, Javed, Moinian

Instructors: Hickerson, Smith

The [Department of Computing and Technology](#) provides an Associate in Applied Science degree in Information Technology. Bachelor of Science Degrees are offered with studies in Computer Science and Information Technology.

### ASSOCIATE IN APPLIED SCIENCE DEGREE MAJOR IN INFORMATION TECHNOLOGY (514)

- I. GENERAL EDUCATION REQUIREMENTS (18 hours)
  - A. Required Courses (12 hours)  
ENGL 1113, ENGL 1213, PS 1113, HIST 1483 or HIST 1493
  - B. Selected Electives (6 hours)  
Behavioral Science or Economics (3 hours)  
Humanities (3 hours)
- II. MAJOR REQUIREMENTS (45 hours)
  - A. Technical Specialty (24 hours) CIS 1013, CIS 2033, IAS 2233, IT 1063, (IT 1414 **and** IT 2414 **or** CS 1314 **and** CS 1514), IT 2064
  - B. Technical-Occupational Support (6 hours) MATH 1513 **and** (BUS 1113 **or** STAT 2013)
  - C. Option Specialty Courses (9 hours) Courses from CIS, MIS, IAS, or CS (Advisor Approved)
  - D. Tech-Occupational Related Courses (6 hours) COMM 1113 **and** one add'l course (Advisor Approved)
- III. ELECTIVES TO TOTAL 63-64 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF SCIENCE DEGREE MAJOR IN COMPUTER SCIENCE (415)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (68 hours)
  - A. Required Courses (42 hours) CS 1314, CS 1514, CS 1523, CS 2413, CS 2513, CS 3013, CS 3183, CS 3513, CS 3713, CS 4204, CS 4233, IAS 2233, IT 1063
  - B. Additional Requirements (26 hours)
 

*Electives (13 hours)* Choose from the following: CS 2333, CS 3001-3, CS 3813, CS 3573, CS 4001-3, CS 4223, IAS-prefix courses, IT 2064, IT 3603, IT 4342

*Mathematics Requirements (13 hours)* Choose from the following: MATH 2215, MATH 2235, MATH 2613, MATH 3333, MATH 4113, MATH 4423, MATH 4433, STAT 2013
- IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF SCIENCE DEGREE MAJOR IN INFORMATION TECHNOLOGY (414)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)  
This program requires specific General Education courses in mathematics (MATH 2215 or 2713).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR-MINOR REQUIREMENTS (63-64 hours)
  - A. Core Courses (42 hours) CIS 2033, IAS 2233, IT 1063, (IT 1414 **and** IT 2414 **or** CS 1314 **and** CS 1514), IT 2064, IT 3603, IT 4013, IT 4342, IT 4444, MIS 3033, STAT 2013, TECH 3013
  - B. Option (15-16 hours) Choose one of the following options:
 

*Computer Information Systems (16 hours)* CIS 3033, CIS 3064, CIS 3183, MM 3023, Upper Division Course (Advisor Approved)(3 hours)

*Management Information Systems (15 hours)* CIS 3183, MIS 2113, MIS 3013, MIS 4033, MIS 4433

*Cyber Security and Info Assurance (15 hours)* Choose from the following: CS 1733, IAS 2333, IAS 3063, IAS 3233, IAS 3263, IAS 4063
  - C. Guided Electives (6 hours) Choose from Upper Division courses in: CIS, CS, IAS, IT, MIS, MM, or TECH (Advisor Approved)
- IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### COURSE DESCRIPTIONS

#### COMPUTER AIDED DRAFTING (CAD)

**1013\* COMPUTER AIDED DRAFTING** 3 credit hours 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. Co-requisite: CAD 1013L.

**1013L\* COMPUTER AIDED DRAFTING LAB** 0 credit hours LAB: 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. Co-requisite: CAD 1013.

#### COMPUTER INFORMATION SYSTEMS (CIS)

**1013\* INTRODUCTION TO COMPUTER INFORMATION SYSTEMS** 3 credit hours This course is an overview of what students need to know to successfully navigate/adapt in the ever changing landscape of computing and communications technologies. Lecture 3 hours. Prerequisite: None.

**2001-3 SPECIAL PROBLEMS IN COMPUTER INFORMATION SYSTEMS** 1-3 credit hours Assigned student projects which will include topics not covered in detail in the CIS curriculum and based on study needs. Laboratory 3-9 hours. Prerequisite: Sophomore standing and departmental permission.

**2013\* VISUAL BASIC PROGRAMMING** 3 credit hours Elements of VISUAL BASIC programming language. Lecture 3 hours. Prerequisite: IT 1213.

**2023 BUSINESS APPLICATIONS OF C++** 3 credit hours Elements of the C++ programming language with emphasis on business applications. Lecture 3 hours. Prerequisite: MATH 1513 or concurrent enrollment or permission of department.

**2033\* FUNDAMENTALS OF SYSTEMS ANALYSIS AND DESIGN** 3 credit hours An in-depth study of the Systems Development Life Cycle (SDLC) to include study, design, development, and

operation phases. A total quality management emphasis is stressed and computer assisted systems engineering (CASE) tools are introduced. Lecture 3 hours. Prerequisites: CIS 1013 or concurrent enrollment.

**2043 GRAPHIC DESIGN BASICS** 3 credit hours Basic graphic design theory and development are studied through the use of elements of design and principles of composition as applied to information system processes. Study includes basic color theory with emphasis on using design techniques and software tools to develop graphic outputs for business. Lecture 3 hours.

**3011-3 SOFTWARE APPLICATIONS** 1-3 credit hours A study of selected commercial software. Emphasis is on implementation, equipment requirements, integration capabilities and limitations of each software application. Course may be repeated for credit with different software packages. Lecture 1-3 hours. Prerequisites: department permission.

**3023 ADVANCED BUSINESS APPLICATIONS OF C++** 3 credit hours Emphasizes classes, objects, object-oriented programming, arrays, string processing and file manipulation. Lecture 3 hours. Prerequisite: CIS 2023.

**3033 MANAGING THE INFORMATION TECHNOLOGY CENTER** 3 credit hours Managing the resources of the modern Information Center. Topics include: maximizing the value of data and information technology, IT architectures, digital, mobile and social commerce, enterprise systems and analytics, cybersecurity, compliance and business continuity, functional areas and compliance systems and IT planning, strategy, and IT ethics and responsible conduct. Lecture 3 hours. Prerequisite: CIS 2033.

**3064 COBOL PROGRAMMING** 4 credit hours Elements of COBOL programming language applied to business systems emphasizing file processing, control breaks, interactive processing, sub-programs and data validation. Software quality, use of multi-dimension tables, sorting and interaction with databases are covered. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 2413 or IT 2414/2414L or CS 1513 or CS 1514/1514L. Co-requisite: CIS 3064L.

**3064L COBOL PROGRAMMING LAB** 0 credit hours Elements of COBOL programming language applied to business systems emphasizing file processing, control breaks, interactive processing, sub-programs and data validation. Software quality, use of multi-dimension tables, sorting and interaction with databases are covered. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 2413 or IT 2414/2414L or CS 1513 or CS 1514/1514L. Co-requisite: CIS 3064.

**3083 DATABASE DESIGN AND MANAGEMENT** 3 credit hours Emphasis on design and use of database systems to include UML and CASE tools. Lecture 3 hours. Prerequisite: IT 2414/2414L.

**3183 STRUCTURED QUERY LANGUAGE** 3 credit hours An in-depth study of the Structured Query Language (SQL) and relational database processing. Topics will include general application development using basic and advanced select statements. Other topics include queries involving multiple tables. Lecture 3 hours. Prerequisites: Junior standing and IT 2413 or IT 2414/2414L or CS 1513 or CS 1514/1514L.

**4013 DATA WAREHOUSING** 3 credit hours The strategies and processes for Data Warehousing of large relational databases. Topics include: understanding the role of data warehousing to businesses, understanding data warehousing as a management tool, data warehousing as an emerging architecture and a data warehouse as it is designed to support the decision support

system (DSS) function. Lecture 3 hours. Prerequisite: CIS 3083 or MIS 3033 or CS 3183.

**4023 DATA MINING** 3 credit hours The strategies and processes for Data Mining of large relational databases. The major focus of this course is data mining applications related to the corporate business world. Examples of discussion areas include banking and finance, retail, and health care. Lecture 3 hours. Prerequisite: CIS 3083 or MIS 3033 or CS 3183.

### **COMPUTER SCIENCE (CS)**

**1113 INTRODUCTION TO COMPUTER ORGANIZATION** 3 credit hours An introductory course in hardware. Topics will include basic organization of a computer system, number representations, binary arithmetic, digital logic circuits, I/O, storage, processor, program execution, and miscellaneous hardware related issues. Lecture 3 hours.

**1301\* OPERATING SYSTEM UTILITIES I** 1 credit hour The basic commands of the operating system currently in use. Lecture 1 hour.

**1314\* COMPUTER SCIENCE I** 4 credit hours An introduction to programming using an object-oriented language and its use in solving simple problems. Topics include: pseudo-code, control structures, functions, arrays, simple searching and sorting techniques, basic classes. Lecture 3 hours, laboratory 2 hours. Prerequisites: MATH 1513 or concurrent enrollment. Corequisite: CS 1314L.

**1314L\* COMPUTER SCIENCE I LAB** 0 credit hours An introduction to programming using an object-oriented language and its use in solving simple problems. Topics include: pseudo-code, control structures, functions, arrays, simple searching and sorting techniques, basic classes. Lecture 3 hours, laboratory 2 hours. Prerequisites: MATH 1513 or concurrent enrollment. Co-requisite: CS 1314.

**1514\* COMPUTER SCIENCE II** 4 credit hours A continuation of programming using an object-oriented language. Topics include: searching, sorting, pointers, files, classes and object-oriented issues, recursion, and introduction to linked data structures. Lecture 3 hours, laboratory 2 hours. Prerequisites: IT 1413 or IT 1414/1414L or CS 1313 or CS 1314/1314L. Co-requisite: CS 1514L.

**1514L\* COMPUTER SCIENCE II LAB** 0 credit hours LAB: A continuation of programming using an object-oriented language. Topics include: searching, sorting, pointers, files, classes and object-oriented issues, recursion, and introduction to linked data structures. Lecture 3 hours, laboratory 2 hours. Prerequisites: IT 1413 or IT 1414/1414L or CS 1313 or CS 1314/1314L. Co-requisite: CS 1514.

**1523\* DISCRETE MATH** 3 credit hours 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: IT 1413 or IT 1414/1414L or CS 1313 or CS 1314/1314L.

**1733 OPERATING SYSTEMS TECHNOLOGIES** 3 credit hours An introduction to operating systems (Linux, Windows). Topics include: file system hierarchy, command set, application software, and administrative tasks. Lecture 3 hours.

**2001-3 SEMINAR IN COMPUTER SCIENCE** 1-3 credit hours Elementary current topics that are not part of the common core. Lecture 1-3 hours. Prerequisites: Announced prerequisites.

**2333 WEB SYSTEMS TECHNOLOGIES** 3 credit hours An introduction to web programming. Topics will include: html, CSS, Java Script, server side scripting, cascading styles, and CGI.

Emerging technologies will be covered. Lecture 3 hours. Prerequisite: IT 1413 or IT 1414/1414L or CS 1313 or CS 1314/1314L.

**2413\* DATA STRUCTURES** *3 credit hours* An introduction to elementary data structures (stacks, queues, linked lists and trees) and their applications. A brief survey of sorting techniques. Lecture 3 hours. Prerequisites: CS 1523 or concurrent enrollment and IT 2413 or IT 2414/2414L or CS 1513 or CS 1514/1514L.

**2513 COMPUTER ORGANIZATION AND ARCHITECTURE** *3 credit hours* An introduction to the computer system, central processing unit, control unit, and parallel organization. Current architectural directions will be discussed. Lecture 3 hours. Prerequisites: IT 2413 or IT 2414/2414L or CS 1513 or CS 1514/1514L.

**3001-3 SEMINAR IN COMPUTER SCIENCE** *1-3 credit hours* Intermediate level current topics that are not part of a common core. Lecture 1-3 hours. Prerequisites: Announced prerequisites.

**3013 NETWORK PROGRAMMING** *3 credit hours* Concepts of multiprocessing and interprocess communication, networking protocol architecture, construction of client/server software using low and high level system calls. Lecture 3 hours. Prerequisite: CS 2413/2413L.

**3100-6 COMPUTER SCIENCE INTERNSHIP** *0-6 credit hours* This course is designed to give students practical work experience and on-the-job training in the field of Computer Science. This course is offered on a S/U basis only. A maximum of 6 credits may be taken. In addition to the satisfactory completion of the approved internship, a minimum of 50 hours' work per credit hour is required. Department permission is required to enroll in this course. Before the student can enroll in the course, he or she must ask the employer to issue a "Letter of Appointment" to the Department Coordinator of Computer Science regarding their intent to hire the student. The letter shall describe the conditions under which the employer will hire the intern and the nature of the internship project. Upon approval by the Computer Science Coordinator, the student will be able to enroll in this course. Internship 0-6 hours. Prerequisite: Departmental permission and completion of substantial course work in computer science.

**3183 DATABASE DESIGN AND MANAGEMENT** *3 credit hours* This course introduces the basic theories, concepts, skills, and techniques of data and database systems. The course will primarily focus on database design and implementation. Lecture 3 hours. Prerequisite: CS 1314/1314L or CIS 2033 or MIS 2113 or MM 2033. (Cross-listed with MIS 3033.)

**3343 NUMERICAL ANALYSIS I** *3 credit hours* 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 CS 1314/1314L or department permission.

**3443 NUMERICAL ANALYSIS II** *3 credit hours* A continuation of CS 3343. Topics include: Additional topics in numerical integration; ordinary differential equations; interpolation and curve fitting. Optional topics may include partial differential equations. Lecture 3 hours. Prerequisite: CS 3343.

**3513 OPERATING SYSTEMS** *3 credit hours* Overview of hardware and software, process management, storage management, processor management, and auxiliary storage management. Lecture 3 hours. Prerequisite: CS 2413.

**3573 COMPUTER GRAPHICS** *3 credit hours* 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 and MATH 3013 or MATH 4433.

**3713 ALGORITHM ANALYSIS** *3 credit hours* A mathematical analysis of common algorithms: common searches and sorting, graphs, and string matching. An introduction to the notion of complexity. Lecture 3 hours. Prerequisites: CS 2413 and MATH 2215.

**3813 PARALLEL COMPUTING** *3 credit hours* 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 2413.

**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 credit hours* 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.

**4204 SOFTWARE ENGINEERING** *4 credit hours* This course emphasizes the software development life cycle. Topics will include: Uniform Modeling Language (UML), testing methods, and software correctness. Acquisition of the skills necessary to control complex programming projects. Lecture 3 hours, laboratory 2 hours. Prerequisite: CS 2413. Co-requisite: CS 4204L.

**4204L SOFTWARE ENGINEERING LAB** *0 credit hours* This course emphasizes the software development life cycle. Topics will include: Uniform Modeling Language (UML), testing methods, and software correctness. Acquisition of the skills necessary to control complex programming projects. Lecture 3 hours, laboratory 2 hours. Prerequisite: CS 2413. Co-requisite: CS 4204.

**4223 PROGRAMMING LANGUAGES AND COMPILERS** *3 credit hours* Coverage of the concepts and constructs of the major programming paradigms and an introduction to the theory and techniques of compiler construction. Lecture 3 hours. Prerequisite: CS 2413.

**4233 CAPSTONE PROJECT** *3 credit hours* This course provides students the opportunity to complete a comprehensive software project. The project will be done through team effort, and may involve the use of multiple programming languages. Emphasis will be on professional communication, team work, and comprehensive utilization of computing knowledge obtained in previous courses. This is a hands-on and lecture combined course. Capstone/lecture 3 hours. Prerequisite: Senior standing and CS 4204/4204L.

**4443 COMPUTER USAGE FOR ELEMENTARY TEACHERS** *3 credit hours* A course specifically designed to introduce the elementary teacher to micro-computers and programming concepts using a structured programming language (BASIC). The course includes construction of and evaluation of software suitable for use in the elementary school. Does not apply toward a major or minor in Computer Science. Lecture 3 hours. Prerequisite: MATH 3353, elementary teaching experience, or department permission.

**4491-3 SPECIAL PROBLEMS IN COMPUTER SCIENCE 1-3 credit hours** 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. Independent study 1-3 hours. Prerequisite: Approval by department chair and faculty member supervising the project.

**CYBER SECURITY & INFORMATION ASSURANCE**

**(IAS)**

**2013\* HISTORY OF INFORMATION ASSURANCE/SECURITY 3 credit hours** The historical impact of viruses, Trojans, worms and other information security threats as well as anti-virus efforts will be examined. Students will exhibit a mastery of communication skills by writing several significant research papers and several significant oral presentations concerning the history of information assurance/security. Students will learn effective uses of technology for communicating. This is a communications intensive course. Lecture 3 hours. Prerequisites: CIS 1013 and ENG 1113.

**2233\* INTRODUCTION TO INFORMATION ASSURANCE/SECURITY 3 credit hours** Best practices, basic policies and procedures, ethics, and fundamental legal issues will be explored. Risk Management and Disaster Recovery as applied to Information Assurance/Security will be investigated. Ethics and vulnerability issues will also be covered. Lecture 3 hours. Prerequisite: IT 1063.

**2333 COMPUTER FORENSICS 3 credit hours** Procedures for the identification, preservation, and extraction of electronic evidence. Modes of hidden data, cryptography, steganography, compression. Investigating Windows and Linux computers. Lecture 3 hours. Prerequisite: IAS 2233.

**3063 INFORMATION ASSURANCE NETWORKING FUNDAMENTALS 3 credit hours** Students will analyze and design a secure network. Intrusion Detection, fundamental forensics, incident handling and privacy issues will be examined. Lecture 3 hours. Prerequisite: IAS 2233.

**3233\* E-COMMERCE AND WEB SECURITY 3 credit hours** Electronic commerce technology, standards and issues. Introduction to security architectures for electronic commerce: digital signatures, certificates, and public key infrastructure. Vulnerabilities in e-commerce and web applications will be studied as well as the security countermeasures. Lecture 3 hours. Prerequisite: IAS 2233.

**3263 SECURITY ARCHITECTURE AND DESIGN 3 credit hours** Students will configure a secure network and an intrusion detection system. Network monitoring plans and bandwidth management plans will be created. Policies and procedures will be created. A basic forensics data report will be designed. Lecture 3 hours. Prerequisite: IAS 3063.

**4063\* CURRENT TOPICS IN INFORMATION ASSURANCE AND NETWORK SECURITY 3 credit hours** Students will research current literature and compare and summarize current Information Assurance Issues, legal issues, and events. A Disaster Recovery Plan and a Risk Assessment Plan will be created. Audit Plans will be created. Acceptable Use Policies will be assessed. Policies and procedures will be assessed. Lecture 3 hours. Prerequisite: IAS 3063.

**INFORMATION TECHNOLOGY (IT)**

**1063 INTRODUCTION TO NETWORKING 3 credit hours** An overview of computer networking. Topics include network topologies, network software, the client-server model, the OSI/ISO model, network components, TCP/IP, and network

security. Lecture 3 hours. Prerequisite: CIS 1013 or concurrent enrollment.

**1213 PROGRAMMING LOGIC 3 credit hours** A basic introduction to the knowledge and skills that are used in computer programming. Topics include: the third generation programming environment, program design and pseudocode, coding, debugging, basic control structures, basic classes and objects, and methods. Lecture 3 hours.

**1414 PROGRAMMING I 4 credit hours** The first course in computer programming using an Object Oriented approach. Topics include: the third generation programming environment, program design and pseudocode, coding, debugging, basic control structures including conditional statements, loops, methods, basic classes and objects. Other topics include array processing and basic GUI issues. Lecture 3 hours, laboratory 2 hours. Prerequisite: MATH 1513 or concurrent enrollment or permission of department. Co-requisite: IT 1414L.

**1414L PROGRAMMING I LAB 0 credit hours** The first course in computer programming using an Object Oriented approach. Topics include: the third generation programming environment, program design and pseudocode, coding, debugging, basic control structures including conditional statements, loops, methods, basic classes and objects. Other topics include array processing and basic GUI issues. Lecture 3 hours, laboratory 2 hours. Prerequisite: MATH 1513 or concurrent enrollment or permission of department. Co-requisite: IT 1414.

**2064 INTERNETWORKING TECHNOLOGIES 4 credit hours** The installation, configuration, and administration of operating systems in a network of computers. Allocation of IP addresses and configuration of routers. Current and relevant software will be studied to include both server software and client software. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1063. Co-requisite: IT 2064L.

**2064L INTERNETWORKING TECHNOLOGIES LAB 0 credit hours** LAB: The installation, configuration, and administration of operating systems in a network of computers. Allocation of IP addresses and configuration of routers. Current and relevant software will be studied to include both server software and client software. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1063. Co-requisite: IT 2064.

**2414 PROGRAMMING II 4 credit hours** The second course in computer programming using an Object Oriented approach. Topics include: programming in the GUI environment, Classes, Objects, fast sorts, Abstract Data Types, Strings, recursion, and file processing. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1413 or IT 1414/1414L or CS 1313 or CS 1314/1314L. Co-requisite: IT 2414L.

**2414L PROGRAMMING II LAB 0 credit hours** LAB: The second course in computer programming using an Object Oriented approach. Topics include: programming in the GUI environment, Classes, Objects, fast sorts, Abstract Data Types, Strings, recursion, and file processing. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1414/1414L. Co-requisite: IT 2414.

**3603 HUMAN COMPUTER INTERFACE DEVELOPMENT 3 credit hours** An exploration of Graphical User Interface development and human computer interaction using a current RAD tool. Issues of good and bad design of both Web and Application GUIs. Lecture 3 hours. Prerequisite: IT 2413 or IT 2414/2414L or CS 1513 or CS 1514/1514L.

**4013 RESEARCH TOPICS IN IT 3 credit hours** Applied scholarly research in IT related areas will be conducted. Skills will be developed in utilizing available campus, library, research, and

writing resources, as well as external resources. Iterative creation and review of a scholarly paper will be undertaken, using formats common to computing conference publications. Students will be required to present research findings, as is common in computing conference proceedings. Lecture 3 hours. Prerequisite: Must be a bachelor's degree seeking major of the Department of Computing and Technology. Junior or Senior standing.

**4342\* LEGAL AND ETHICAL ISSUES FOR THE IT PROFESSIONAL** *2 credit hours* The course is designed to give students an ability to distinguish and analyze information systems legal, social and ethical issues. Through class lecture, case study analysis, class discussion, final project preparation, and outside readings, students will become versed in the logical/critical thinking skills required to make ethical decisions as an information technology professional. Lecture 2 hours. Prerequisite: Junior standing.

**4444 IT CAPSTONE** *4 credit hours* The IT Capstone course is designed to integrate course work in various specializations of IT classes. This class emphasizes critical thinking and analysis for business decision-making. Students will work in teams to solve/create/implement a service learning group project. This project will be used to demonstrate functional knowledge and skill. Capstone/lecture 4 hours. Prerequisites: Senior standing and IT 3603 and CIS 3083 or CS 3183 or MIS 3033.

### **MANAGEMENT INFORMATION SYSTEMS (MIS)**

**2001-3 SPECIAL PROBLEMS IN MANAGEMENT INFORMATION SYSTEMS** *1-3 credit hours* Assigned student projects which will include topics not covered in detail in the MIS curriculum and based on study needs. Lecture 1-3 hours.

**2013 PROGRAMMING I** *3 credit hours* Introduction to and use of application development tools for object-oriented programming. Emphasizes step-wise refinement of fourth generation computer languages (4GLs) and introduces CASE (Computer-Aided-Software Engineering) tools during the developmental process. Student designs elementary business solutions using general application development software, report generation, macro, query, and other application features. Lecture 3 hours. Prerequisite: CIS 1013.

**2113 FUNDAMENTAL MIS TOOLS AND SKILLS** *3 credit hours* A study of major microcomputer application software packages, including operating systems, word processing, and spreadsheet software. The emphasis is on hands-on use of these packages to develop software applications for solving basic business problems. Lecture 3 hours.

**3013 MANAGEMENT INFORMATION SYSTEMS** *3 credit hours* An overview of the current principles and practices of information systems and solving problems from a managerial perspective. Lecture 3 hours. Prerequisites: CIS 1013 or MIS 2113 or computer proficiency.

**3021-3 BUSINESS SOFTWARE APPLICATIONS** *1-3 credit hours* A study of selected software for microcomputer systems. Course may be repeated for credit with different software packages. Lecture 1-3 hours. Prerequisite: MIS 2113.

**3033 DATABASE DESIGN AND MANAGEMENT** *3 credit hours* This course introduces the basic theories, skills, and techniques of data and database systems. The course will primarily focus on database design and implementation. Lecture 3 hours. Prerequisites: CS 1314 or CIS 2033 or MIS 2113 or MM 2033. (Cross-listed with CS 3183.)

**3083 SYSTEMS ANALYSIS AND DESIGN** *3 credit hours* Systems development using modern methods and tools. Recent advances

in software technologies such as distributed hypermedia systems (World Wide Web), CASE tools, GUI tools, DBMSs, 4GLs, and the Systems Development Life Cycle (SDLC). Study of object-oriented development and Web-based information systems development issues. Students write a business application program. Lecture 3 hours. Prerequisite: CIS 3083 or MIS 3033 or CS 3183.

**3123 ADVANCED BUSINESS APPLICATIONS OF MICROCOMPUTER SOFTWARE** *3 credit hours* Study of advanced features of major microcomputer application software packages, including word processing, spreadsheet, graphics, and database software. Emphasis on hands-on use of these packages to develop software applications for solving complex business problems. Lecture 3 hours. Prerequisite: MIS 2113.

**3223 BUSINESS DATA COMMUNICATION/TELECOMMUNICATIONS** *3 credit hours* Introduction to data communications and networking in a business environment while emphasizing current advances in telecommunications technology, regulation, and international standards. Topics include TCP/IP and the OSI model; current data communications protocols; network architecture including client/server networks; and operating systems. Student becomes conversant in data communication terminology and concepts. Knowledge and skills gained will be applied in an end-of-course business scenario. Lecture 3 hours. Prerequisite: MIS 3013.

**4033 ELECTRONIC COMMERCE** *3 credit hours* This course will involve a comprehensive look at electronic commerce. Students will gain theoretical exposure to the complex field as well as practical experience in basic web programming. Course topics include: business models, revenue models, e-commerce security, payment systems, as well as legal, social and ethical issues. Lecture 3 hours. Prerequisite: MIS 2113.

**4433 PROJECT MANAGEMENT** *3 credit hours* The course presents basic principles of project management, tools of project management, and the role of project manager in the successful completion of a project. Lecture 3 hours. Prerequisite: Junior standing.

**4471-3 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS** *1-3 credit hours* Study of specified topics in Management Information Systems such as advanced telecommunications, advanced database, data warehousing, information security, web page design, decision support systems, and other topics. Can be repeated for maximum of nine (9) hours credit under different topic titles. Seminar 1-3 hours. Prerequisite: Permission of the Chair.

**4491-3 INDEPENDENT STUDY IN MANAGEMENT INFORMATION SYSTEMS** *1-3 credit hours* Independent reading and/or study of specific problems or special subjects, based upon pre-approved outlines of plans, with conferences and/or written reports. Independent study/directed readings 1-3 hours. Prerequisites: 9 upper division hours in the discipline of the independent study and department permission. A proposal must accompany the request when submitted for approval.

**4533 APPLIED PROBLEMS IN MANAGEMENT INFORMATION SYSTEMS** *3 credit hours* A capstone course designed to integrate course work in various functional areas of MIS applications. Emphasizes teamwork, analytical and critical thinking, technical and managerial skills in the creation and management of an information systems application. Lecture 3 hours. Prerequisite: CIS 3083 or MIS 3033 or CS 3183.

**MULTIMEDIA DESIGN (MM)**

**1013 FUNDAMENTALS OF MULTIMEDIA DESIGN** *3 credit hours* An introduction to the study of multimedia design, including principles of graphic design; introduction to authoring; on-screen layout; and introduction to authoring tools. With a basic understanding of Instructional Systems Design, students will learn to create desktop and on-screen multimedia applications. This class will also include a brief introduction to authoring software. Lecture 2 hours, laboratory 2 hours. Prerequisite: CIS 1013 or concurrent enrollment.

**1133 MULTIMEDIA PRODUCTION TECHNIQUES** *3 credit hours* This course familiarizes students with basic techniques, using hardware and software tools to create various media for multimedia productions. Students will learn basic techniques such as scanning and enhancing photographs, creating simple animations and incorporating graphics into presentations with an understanding of display color. Lecture 2 hours, laboratory 2 hours. Prerequisite: MM 1013.

**1143 INSTRUCTIONAL DESIGN** *3 credit hours* Introduction to the systematic design of instruction that includes learner, task and content analysis, writing performance objectives, developing instructional strategies, materials and assessment instruments, and evaluating and revising instructional materials. Lecture 2 hours, lab 2 hours. Prerequisite: ENGL 1113 or concurrent enrollment.

**1154 INTRODUCTION TO MULTIMEDIA AUTHORING** *4 credit hours* Introduction to program logic, problem solving techniques, scripting, and the design theories on which authoring is based within the context of an authoring tool. This course makes extensive use of structure charts, flow charts, and storyboarding to illustrate the logic necessary to create instructional materials using authoring software. Lecture 2 hours, lab 4 hours. Prerequisite: MM 1143 and completion or concurrent enrollment in MM 1133.

**2023 CORPORATE MULTIMEDIA PRODUCTION I** *3 credit hours* Planning and development of modern interactive educational applications in a corporate environment using modern learning theory. Students will plan projects using industry best practices in a client-centered, corporate context. They will also produce educational programs conforming to e-learning principles based on cognitive learning theory. This course will incorporate a second authoring tool. Lecture 2 hours, lab 2 hours. Prerequisites: MM 1154; concurrent enrollment: JRMP 1313.

**2033 WEB COMMUNICATIONS AND DESIGN** *3 credit hours* This course introduces students to purpose-driven web browsing and web page creation. Students will incorporate multimedia components into created pages. Lecture 2 hours, lab 2 hours. Prerequisite: CIS 1013.

**2123 CORPORATE MULTIMEDIA PRODUCTION II** *3 credit hours* An advanced course emphasizing practice in the use of more advanced authoring and delivery techniques while studying current issues in corporate and government instructional media production. Lecture 2 hours, lab 2 hours. Prerequisite: MM 2023.

**2132\* LEGAL AND ETHICAL ISSUES** *2 credit hours* A survey of current ethical and legal issues, such as copyright, that impact the development and use of multimedia instructional material. Lecture 2 hours.

**2191-3 SPECIAL PROBLEMS IN MULTIMEDIA** *1-3 credit hours* Individual and group projects in multimedia. May be repeated with permission of the department chairman. Independent

study/directed readings 1-3 hours. Prerequisite: Permission of the department chair and faculty member supervising the project. May be taken for a maximum of 6 hours.

**2803 CAPSTONE PROJECT** *3 credit hours* A reflection and expansion on the skills and knowledge gained from Technical-Occupational Specialty courses of the AAS in Multimedia Design program. Students' written and oral communication skills will be assessed and they will develop their first portfolio of Multimedia Design skills. Capstone/lecture 3 hours. Prerequisite: MM 2123 or concurrent enrollment.

**3013\* ADVANCED COMPUTER GRAPHICS** *3 credit hours* A study of artistic elements and software techniques used to create advanced 2D/3D computer graphics for multimedia products. Lecture 2 hours, laboratory 2 hours. Prerequisite: MM 1013.

**3023 WEB PUBLISHING AND GRAPHICS** *3 credit hours* This course helps students develop the creative and critical thinking skills required in a web/animation design and development environment. Students learn to plan for and implement interactivity in their web and animation designs. They are required to incorporate a mixture of audio, video, graphics, and animation dependent on website objectives (e.g., marketing, instructing, or entertainment). Techniques for automating the design process will be covered. State-of-the-art web animation and web-development tools are introduced and used as the catalyst for learning. Lecture 2 hours, laboratory 2 hours. Prerequisite: Instructor permission.

**3031 MOTION GRAPHICS I** *1 credit hour* Concepts and practice in developing motion graphics with special effects using a non-linear, 2D, layer-oriented editing system. Motion graphics will be combined with audio for use in 3D animation projects and displayed via electronic media. Students will animate, alter and composite media in 2D and 2.5D space with an editing system's built-in tools and third-party plug-ins. Special attention will be given to basic editing skills and motion curves. Lecture 1 hour. Prerequisite: Sophomore status and Department permission.

**3041 MOTION GRAPHICS II** *1 credit hour* Refinement of concepts and skills learned in MM 3031 with an emphasis on the use of 3D animation, spatial effects and 2.5D camera angle adjustment. Lecture 1 hour. Prerequisite: MM 3031.

**3051 MOTION GRAPHICS III** *1 credit hour* A Competency-Based Learning course emphasizing the completion of a major project involving 3D animation and a motion graphics editing system. The project will demonstrate students' readiness to pursue more advanced 3D animation and motion capture courses by demonstrating their motion graphic, modeling, and texturing skills. Lecture 1 hour. Prerequisite: MM 3041.

**3063 3D ANIMATION AND MOTION CAPTURE I** *3 credit hours* Building on the skills from existing animation courses, students will be challenged to model objects (vehicles) with curved, aerodynamic features. Other areas of emphasis include modeling the human form and organic modeling techniques, modeling for motion, and the use of 3D geometry for accuracy of animation. Students will explore the capabilities of two or more motion capture systems. Lecture 2 hours, lab 2 hours. Prerequisite: Sophomore status, advisor permission, and either 1) AAS in an animation or motion graphics field or completion of a 2-year Great Plains Technology Center 3D Animation program, or 2) completion of MM 3051.

**3073 3D ANIMATION AND MOTION CAPTURE II** *3 credit hours* Advanced animation post-production techniques and tools found in post-production software. Students will stitch together video clips, stills, and animations using editing, compositing, and

composition techniques. Students will learn when it is appropriate to use 3D, video, still imagery, or motion graphics and in what combinations. In addition, basic theories and practices of post-production (including rendering solutions) and finalization of video and 3D animation will be covered. Lecture 2 hours, lab 2 hours. Prerequisite: MM 3063.

**3113 DISTANCE LEARNING DEVELOPMENT** *3 credit hours* Development of multimedia instructional materials for distance learning using current technology. Lecture 2 hours, lab 2 hours. Prerequisites: MM 1143, MM 2033 or department permission.

**3203 ADVANCED INSTRUCTIONAL DESIGN** *3 credit hours* An advanced course in instructional systems design (ISD) exploring the relationships between the ADDIE process and various ISD models. Also explored are learning theories underpinning ISD and their application in professional-level designs. Lecture 2 hours, laboratory 2 hours. Prerequisite: MM 1143.

**3991-3 WORKSHOP** *1-3 credit hours* Multimedia workshops are designed to give intensive emphasis to a specific area of media design and development. Course may be repeated with a different topic for additional credit up to a maximum of 6 hours. Workshop 1-3 hours.

**4003 ADVANCED AUTHORING** *3 credit hours* Advanced authoring using scripting languages. Lecture 2 hours, laboratory 2 hours. Prerequisites: MM 1154 and MM 3013 or concurrent enrollment.

**4023 ADVANCED WEB COMMUNICATIONS** *3 credit hours* Advanced web authoring using programming languages. Lecture 2 hours, laboratory 2 hours. Prerequisite: MM 2033.

**4191-3 ADVANCED PROBLEMS IN MULTIMEDIA** *1-3 credit hours* Individual and group projects in multimedia. May be repeated with permission of the department chair. Independent study/directed readings 1-3 hours. Prerequisite: Permission of the department chair and faculty member supervising the project. May be taken for a maximum of 6 hours.

**4414 SIMULATION** *4 credit hours* Demonstration of effective methods for visualizing objects and data through designing and creating animations for use in video, multimedia and virtual environments. Lecture 2 hours, laboratory 4 hours. Prerequisite: MM 3013.

**4804 CAPSTONE** *4 credit hours* A reflection on the skills and knowledge at the culmination of Multimedia Design studies. Students will work on teams to analyze requirements, design, implement, and test a large multimedia project suitable for publication. During the course, students will complete a portfolio demonstrating their multimedia design skills suitable for viewing by potential employers. In addition, students will work in and may manage a major project. They may complete a needs analysis, develop objectives and/or write specifications for an instructional, marketing, or entertainment product. They will also develop all or part of the product. Prerequisites: MM 4003 and completion or concurrent enrollment in MM 4414 and MM 4023.

### **TECHNOLOGY (TECH)**

**3000-3 TECHNOLOGY WORKSHOP** *0-3 credit hours* 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. Lecture 0-3 hours. Prerequisite: Junior standing.

**3013\* TECHNICAL COMMUNICATIONS** *3 credit hours* 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: ENGL 1213 and Junior standing.

**4001-6 SCIENCE AND TECHNOLOGY INTERNSHIP** *1-6 credit hours* Directed observation and on-the-job internship served in area directly related to the student's major in the School of Graduate and Professional Studies. The job must be approved by the major advisor prior to starting the internship. Can be repeated for maximum of (6) hours credit. Internship 1-6 hours. Prerequisites: Major advisor permission.

**4033 INDUSTRIAL MANAGEMENT SYSTEMS** *3 credit hours* 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.

**4143 WORKPLACE SAFETY** *3 credit hours* An in-depth study of the necessary skills for the improvement, expansion, and enrichment of employer health and safety policies to promote accident-free work experiences for American workers in various settings. Lecture 3 hours. Prerequisite: Junior standing.

**4443 TECHNOLOGY CAPSTONE** *3 credit hours* A culminating experience based on previous required major TECH coursework. Students will work individually and in teams to analyze technology issues through research and application. Capstone/lecture 3 hours. Prerequisite: TECH 3013; Prerequisite or Concurrent Enrollment: TECH 4033 and TECH 4143.

**4491-3 INDEPENDENT STUDY IN TECHNOLOGY** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: Department permission. The total number of hours earned in Independent Study may not exceed four. \*Liberal arts and sciences course

## DEPARTMENT OF EDUCATION

Chair–Jennifer Dennis, Associate Professor  
 Professors: Hall, Vanderslice  
 Associate Professors: Columbus, Glazer, Hilbert, Holloway, Robinson, Smith  
 Assistant Professors: Rice, Richardson  
 Instructors: Garrett, Holland, Wethern

The [Department of Education](#) offers programs leading to the Bachelor of Science Degree with a major in Elementary Education and to the Bachelor of Science degree with a major in Early Childhood Education. The Department offers Master of Education and Master of Science degrees. Refer to the Graduate Catalog for details.

### TEACHER EDUCATION

Teacher Education Programs at Cameron University are accredited by the Office of Educational Quality and Accountability 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, 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 Educator Preparation.) **NOTE:** Rules and regulations governing teacher education established by the Oklahoma State Regents for Higher Education, Office of Educational Quality and Accountability, Oklahoma State Board of Education, and the state legislature are being modified. The programs outlined in this catalog meet current interpretation of these policies. Students should frequently check with their advisors for up-to-date information regarding teacher education.

#### Early Childhood (PK-3)

Cameron offers a Teacher Education program to prepare students to teach at PK-3 level in the schools of Oklahoma.

Early Childhood 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 by taking a foreign language course or by passing a Department of English and Foreign Languages proficiency test.

#### Elementary (1-8)

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

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 by taking a foreign language course or by passing a Department of English and Foreign Languages proficiency test.

### Secondary

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

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

### Elementary–Secondary (PK-12)

Students may pursue a program of study in Music, which will allow them to be recommended for a teaching license for the elementary-secondary levels. For a list of the required courses in this field of specialization, refer to the specific discipline area in this catalog.

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

### Admission to Teacher Education

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

- a. A grade of C or better in: ENGL 1113, ENGL 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities.
- b. A grade of S in EDUC 1800.
- c. Concurrent enrollment OR a grade of C or better in EDUC 3003, EDUC 3733, Science (Biological or Physical Science). (Students concurrently enrolled in EDUC 3003 must provide a grade check of C or better.\*)
- d. Passing scores on the Nelson Denny reading test (taken during Intro class) and OGET.
- e. Maintain GPA of 2.5 at all times.
- f. Passing score on EDUC 3003 Lesson Plan Rubric.
- g. Three positive recommendation forms with unit dispositions.
- h. Satisfactory completion of entry interview.

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

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

- I. GENERAL EDUCATION REQUIREMENTS 44 hours**  
Elementary Education majors must complete twelve (12) semester hours in each of the following areas: mathematics, social sciences, sciences, and English.  
Elementary Education majors should:
- select MATH 1413 or 1513 for Mathematics.
  - choose HLTH 1012 as 2 hours for Health & Wellness.
  - choose PSY 1113 (a prerequisite to EDUC 3733) for Behavioral Science.
  - demonstrate foreign language proficiency (listening and speaking)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (72-87 hours)**
- A. Required Core Courses (36 hours)** MATH 2353 or elective, MATH 2363 or elective, MATH 1413 or above, LIBS 3423, EDUC 3023, EDUC 3513, EDUC 3533, EDUC 4423(R), EDUC 4443(R), EDUC 4463(R), EDUC 4483(R), EDUC 4553(R), Foreign Language elective or Successful Proficiency Test.  
(R)Restricted to students admitted to Teacher Education.
- B. Professional Education Courses (36 hours)** EDUC 1800, EDUC 3003, EDUC 3013, SPED 3103, EDUC 3733, EDUC 3753(R), EDUC 3673, EDUC 4653(R), EDUC 4935\*(R), EDUC 4945\*(R), EDUC 3612\*(R), EDUC 4313(R).  
\*Should be taken in the professional semester.  
(R)Restricted to students admitted to Teacher Education.
- C. Special Education Option (15 hours)** Students wishing to seek certification in Special Education may choose to take the following courses in addition to the required core and professional education courses: SPED 3203, SPED 3223, SPED 3243, SPED 3263, SPED 4413 and EDUC 4815\*  
\*Taken in place of EDUC 4935 or 4945.
- IV. ADDITIONAL REQUIREMENTS (6 hours)**  
Social Studies Elective (3 hours)\*\*  
Science Elective (3 hours)\*\*  
\*\*See Advisor for applicable courses.
- V. ELECTIVES TO COMPLETE 124-139 HOURS REQUIRED FOR GRADUATION**
- VI. OTHER GRADUATION REQUIREMENTS** Students must achieve a grade of C or better in Elementary Education Major courses and the Professional Education courses and courses that fulfill the state 4x12 requirement, whether taken with an Education prefix or a prefix from another department, to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

**Teacher Licensure/Certification**

Students who complete the requirements for this degree and pass the State tests for certification in Elementary Education will be eligible to apply for a teaching license.

**BACHELOR OF SCIENCE DEGREE****MAJOR IN EARLY CHILDHOOD EDUCATION (355)**

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)**  
Early Childhood Education majors must complete twelve (12) semester hours in each of the following four areas: mathematics, social sciences, sciences, and English (state 4x12 requirement).  
Early Childhood Education majors should
- choose PSY 1113 (a prerequisite to EDUC 3733) for Behavioral Science.
  - choose MATH 1413 or 1513 for Mathematics.
  - choose HIST 2113 or 2223 or PHIL 1113 as 3 hours of Humanities.
  - choose from ART 1013, ART 2613, ART 2623, THTR 1103, FNAR 1013, MUSC 1013, MUSC 1023, MUSC 1033, or MUSC 1413 as 3 hours of Humanities.
  - choose HLTH 1012 as 2 hours of Health & Wellness.
  - demonstrate foreign language proficiency (listening and speaking).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (74-89 hours)**
- A. Required Core Courses (41 hours)** ECE 2163, EDUC 3023, ECE 3154, ECE 3303, ECE 4144, EDUC 3513, EDUC 4423(R), EDUC 4463(R), EDUC 4553(R), LIBS 3423, MATH 1413 or above, MATH 2353 or math elective, MATH 2363 or math elective.  
(R) Restricted to students admitted to Teacher Education.
- B. Professional Education Courses (33 hours)** ECE 4653(R), EDUC 1800, EDUC 3003, EDUC 3612\*(R), EDUC 3673, EDUC 3733, EDUC 3753(R), EDUC 4313(R), EDUC 4935\*(R), EDUC 4995\*(R), SPED 3103.  
\*Should be taken in the professional semester.  
(R)Restricted to students admitted to Teacher Education.
- C. Special Education Option (15 hours)** Students wishing to seek certification in Special Education may choose to take the following courses in addition to the required core and professional education courses: SPED 3203, SPED 3223, SPED 3243, SPED 3263, SPED 4413 and EDUC 4815\*  
\*Taken in place of EDUC 4935 or 4945.
- IV. ADDITIONAL REQUIREMENTS (6 hours)**  
Social Studies Elective (3 hours)\*\*  
Science Elective (3 hours)\*\*  
\*\*See Advisor for applicable courses.
- V. ELECTIVES TO COMPLETE 124-139 HOURS REQUIRED FOR GRADUATION**
- VI. OTHER GRADUATION REQUIREMENTS** Students must achieve a grade of C or better in Early Childhood Education major courses, Professional Education courses, and courses that fulfill the state 4x12 requirement, whether taken with an Education prefix or a prefix from another department, to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

**Teacher Licensure/Certification**

Students who complete the requirements for this degree and pass the state tests for certification in Early Childhood Education will be eligible to apply for a teaching license.

## COURSE DESCRIPTIONS

### **EARLY CHILDHOOD EDUCATION & CARE (ECEC)**

**1113 CHILD GROWTH AND DEVELOPMENT** *3 credit hours* The principles of physical, intellectual, emotional, social and linguistic development of children from diverse cultural backgrounds are studied. Lecture 3 hours.

**1123 INTRODUCTION TO EARLY CARE AND EDUCATION** *3 credit hours* An introduction to the profession of early childhood education focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, current issues, and what it means to be a professional. Lecture 3 hours.

**1213 CURRICULUM RESOURCES AND ACTIVITIES** *3 credit hours* The course focuses on a developmentally appropriate activity-oriented approach to curriculum for young children. Lecture 3 hours.

**1223 CHILD GUIDANCE** *3 credit hours* An exploration of common behavioral problems of young children with emphasis on positive guidance techniques. Lecture 3 hours.

**2211 SCHOOL AGE PRACTICUM** *1 credit hour* Supervised practical experiences with school age children (5-8 years) in the workplace. This course requires 100 clock hours in the workplace. Practicum 1 hour. Prerequisites: ECEC 1213 or concurrent enrollment and consent of instructor, which includes arrangements for the practicum site prior to enrollment.

**2881-3 SPECIAL TOPICS** *1-3 credit hours* Directed individual or group study of selected topic(s) in Early Childhood Education Care. The course may be repeated for additional credit with department permission. Lecture 1-3 hours. Prerequisite: as listed for each separate offering and/or department permission.

**3233 LITERACY FOR CHILDREN** *3 credit hours* A study of principles, methods, and materials for helping young children develop literacy using developmentally appropriate practices. The course focuses on emergent literacy best practices through the examination and application of current research in early literacy. Lecture 3 hours.

**4223 ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS** *3 credit hours* An in-depth study of the management procedures for operating, supervising, and evaluating programs for young children. Lecture 3 hours.

**4333 DEVELOPMENTAL ASSESSMENT AND OBSERVATION** *3 credit hours* Students will explore observation and assessment instruments, as well as recommended practices and available resources for infants, toddlers, and preschoolers. Content includes an emphasis on observing young children and assessing their early childhood learning environments. Lecture 3 hours.

### **EARLY CHILDHOOD EDUCATION (ECE)**

**2163 HEALTH, SAFETY AND NUTRITION FOR YOUNG CHILDREN** *3 credit hours* A course for students working in an early childhood educational setting, for child care givers, and for adults and parents who desire additional information about current concepts in the fields of health, safety, and nutrition and their relationship to the young child. Lecture 3 hours.

**3154 METHODS AND PRACTICUM IN EARLY CHILDHOOD EDUCATION** *4 credit hours* Methods and practice in instruction and guidance of young children. Emphasis on developmental processes and motor skills. A field component is required. Lecture 3 hours.

**3303 HOME, SCHOOL AND COMMUNITY** *3 credit hours* Overview of the impact of home, school, and community relationships as they affect the total educational experience of the child from birth through age eight. Examines the importance of parental involvement in the schools and a variety of

community resources available to both educators and parents that enhance the educational experiences of the child. Techniques to develop and maintain home, community, and school communications will be explored. Lecture 3 hours.

**3801-3 WORKSHOP IN EARLY CHILDHOOD EDUCATION** *1-3 credit hours* 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. Workshop 1-3 hours. Prerequisite: Junior standing.

**3841-3 SELECTED TOPICS IN EARLY CHILDHOOD EDUCATION** *1-3 credit hours* Directed study on a special subject or problems in early childhood education. May be repeated with different topics for a total of 3 hours. Independent study/directed readings 1-3 hours. Prerequisite: Junior standing.

**4144 METHODS AND PRACTICUM IN COGNITIVE DEVELOPMENT** *4 credit hours* Focuses on designing and delivering appropriate experiences in early literacy, math, science, social studies and language for the young child. Additionally requires field experience in early childhood settings arranged with instructor. Lecture 4 hours. Prerequisite or concurrent enrollment with: ECE 2163, ECE 3303, and ECE 3154.

**4653 ASSESSMENT OF YOUNG CHILDREN** *3 credit hours* Includes selection, design, administration, and interpretation of a variety of assessment methods, including alternative, authentic assessment of young children. Focuses on current research and practical guides for integrating assessment with teaching. Use of assessment results to make instructional decisions, plan instructional activities and develop appropriate grading practices. Communication of results to students, parents, educators, and the community. Lecture 3 hours. Prerequisite: Admission to Teacher Education.

### **EDUCATION (EDUC)**

**1800 EDUCATION INTRODUCTORY SEMINAR** *0 credit hours* A required seminar for all declared education majors to be taken before admission to teacher education. Provides overview of the teacher education program's conceptual framework, academic requirements, certification requirements and guidelines for development of the professional portfolio. Seminar 0 hours.

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

**3003\* INTRODUCTION TO TEACHING** *3 credit hours*. An introductory course in education; prerequisite to most education courses; introduces students to role of education in a democratic society, basic principles and techniques of teaching, scope and organization of public school system in the United States, and place of teacher in school and community. Additionally requires field component in the public schools. Lecture 3 hours. Prerequisite: ENGL 1113.

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

**3023 CREATIVE EXPERIENCES FOR EARLY CHILDHOOD AND ELEMENTARY SCHOOL: AN INTEGRATED APPROACH** *3 credit*

*hours* The study of art, music, drama, and dance appropriate for early childhood and elementary school children. Emphasis will be placed on the fundamentals of art, music, drama, and dance as well as the integration of aesthetic and creative experiences into the elementary curriculum. Lecture 3 hours.

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

**3533 TEACHING INTERMEDIATE/MIDDLE SCHOOL READING** *3 credit hours* 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. Lecture 3 hours. Prerequisite or concurrent enrollment with: EDUC 3513.

**3612 CLASSROOM MANAGEMENT** *3 credit hours* The study of effective practices of classroom management, motivation, and disciplinary methodologies. Lecture 2 hours. Prerequisite: admission to professional semester.

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

**3733\* DEVELOPMENTAL PSYCHOLOGY** *3 credit hours* 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. Lecture 3 hours. Prerequisite: PSY 1113.

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

**3881-2 WORKSHOP** *1-2 credit hours* 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. Workshop 1-2 hours. Prerequisites: Junior standing and department permission.

**4313 PRACTICUM IN ASSESSMENT AND INSTRUCTION** *3 credit hours* A pre-service teaching experience in the public school, taught in conjunction with a lecture class on campus. Observation and participation under public school teacher guidance. Additionally, requires (60) sixty hours field component in the public schools. Practicum 3 hours. Prerequisite: Admission to Teacher Education and completion of EDUC 4653 or ECE 4653 with a grade of C or better.

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

**4443 SOCIAL STUDIES METHODS** *3 credit hours* An elementary methods course emphasizing social studies integrated with other content areas. Focus on history, geography, economics,

sociology, anthropology, and civics with intermediate/middle school applications. Lecture 3 hours. Prerequisite: Admission to Teacher Education.

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

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

**4553 DIAGNOSIS AND REMEDIATION OF READING DIFFICULTIES** *3 credit hours* A study of reading difficulties and techniques of remediation of such difficulties. Additionally requires 10 hours supervised field component with a child with reading problems. Lecture 3 hours. Prerequisites: EDUC 3513 and admission to Teacher Education.

**4653 CLASSROOM ASSESSMENT** *3 credit hours* Selection, design, administration, and interpretation of a variety of assessment methods. Use of assessment results to make instructional decisions, plan instructional activities, and develop appropriate grading practices. Communication of results to students, parents, educators, and the community. Lecture 3 hours. Prerequisite: Admission to Teacher Education or EDUC 3003 and Departmental Permission.

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

**4881-3 SELECTED TOPICS IN EDUCATION** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: EDUC 3003. May be repeated with department permission.

**4891-3 SPECIAL STUDIES** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisites: Junior standing and department permission.

**4935 DIRECTED OBSERVATION AND INTERNSHIP IN PRIMARY GRADES** *5 credit hours* Elementary education majors observe, participate and teach in primary grade classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Internship 5 hours. Prerequisite: Admission to professional semester.

**4945 DIRECTED OBSERVATION AND INTERNSHIP IN INTERMEDIATE/MIDDLE SCHOOL GRADES** *5 credit hours* Elementary education majors observe, participate and teach in intermediate/middle school classrooms under the supervision and guidance of a mentor teacher and university supervisor. A

professional education seminar is included. Internship 5 hours. Prerequisite: Admission to professional semester.

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

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

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

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

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

### **LIBRARY SCIENCE (LIBS)**

**3423\* CHILDREN'S LITERATURE** *3 credit hours* 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.

### **READING (READ)**

**0123 READING FUNDAMENTALS I** *Developmental course, no credit* This course assists students in development of vocabulary skills and improvement of reading comprehension that is needed to attempt college study. DOES NOT COUNT TOWARD GRADUATION. Lecture 3 hours.

**0223 READING FUNDAMENTALS II** *Developmental course, no credit* This course is designed to improve the student's ability to read a textbook, by learning to apply a step-by-step academic reading process and improving skills in critical reading and thinking. DOES NOT COUNT TOWARD GRADUATION. Lecture 3 hours.

### **SPECIAL EDUCATION (SPED)**

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

environmental factors such as poverty, abuse, and cultural linguistic differences. Lecture 3 hours.

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

### **3203 CHARACTERISTICS OF EXCEPTIONAL CHILDREN**

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

**3223 ASSESSMENT AND EVALUATION IN SPECIAL EDUCATION** *3 credit hours* 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). Lecture 3 hours.

**3243 BEHAVIOR INTERVENTION AND MANAGEMENT** *3 credit hours* 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. Lecture 3 hours.

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

**3803 SPECIAL TOPICS IN SPECIAL EDUCATION** *3 credit hours* Topics of special interest in special education. May be repeated once with a change of topic. Prerequisite: Department permission. Lecture 3 hours.

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

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

\*Liberal arts and sciences course.

## DEPARTMENT OF PSYCHOLOGY

Chair—Mary Dzindolet, Professor  
 Professors: Geiger  
 Associate Professors: Balmer, Sailor  
 Assistant Professors: Calix, Garrett, Ponce-Garcia, Randell, Seger

The [Department of Psychology](#) offers programs leading to the Bachelor of Science degree with a major in Family and Child Studies and a major in Psychology. Refer to the [Graduate Catalog](#) for information relating to the General Psychology, Marriage and Family, and Counseling tracks in the Master of Science in Behavioral Sciences degree program.

### BACHELOR OF SCIENCE DEGREE

#### MAJOR IN FAMILY AND CHILD STUDIES (356)

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**  
 This program requires specific General Education courses in Behavioral Science (PSY 1113).
- II. **UNIVERSITY REQUIREMENTS (1-7 hours)**  
 UNIV 1001 or 1113 and PSY 3453
- III. **MAJOR REQUIREMENTS (56 hours)**
  - A. **Required Courses (47 hours)**  
*Early Childhood Educ and Care Courses (21 hours)* ECEC 1113, ECEC 1123, ECEC 1213, ECEC 1223, ECEC 3233, ECEC 4223, ECEC 4333  
*Family Science Courses (11 hours)* FAMS 1123, FAMS 3143, FAMS 4333, FAMS 4702  
*Education Course (3 hours)* EDUC 3023  
*Special Education Course (3 hours)* SPED 2103  
*Early Childhood Education Course (3 hours)* ECE 2163  
*Psychology Courses (6 hours)* PSY 3363, PSY 3373
  - B. **Major Elective Courses (9 hours)**  
 Selected from the following list with a minimum of 5 hours of upper division courses: ECE 3303, FAMS 4143, LIBS 3423, or SOCI 4403
- IV. **MINOR REQUIREMENTS (18 hours)**
- V. **ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

### BACHELOR OF SCIENCE DEGREE

#### MAJOR IN PSYCHOLOGY (165)

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**  
 This program requires specific General Education courses in Mathematics (STAT 1513) and Behavioral Science (PSY 1113).
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
 UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS (42 hours)**
  - A. **Required Courses (27 hours)** PSY 1113, PSY 2113, PSY 3353, PSY 3413, PSY 3423, PSY 4363, PSY 4393, PSY 4423, and PSY 4433
  - B. **Major Elective Courses (15 hours)** Selected from the following list with a minimum of 9 hours having a PSY prefix of 3000 or above: FAMS 2153, PSY 2223, PSY 2373, PSY 3313, PSY 3333, PSY 3363 or PSY 3373, PSY 3383, PSY 4313, PSY 4323, PSY 4443
- IV. **MINOR REQUIREMENTS (18 hours)**
- V. **ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

## COURSE DESCRIPTIONS

### CONSUMER RESOURCE MANAGEMENT (CRM)

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

**3623\* CONSUMER RESOURCE MANAGEMENT** 3 credit hours 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. Lecture 3 hours. Prerequisite: Junior standing or permission of the department.

**4033\* PROFESSIONAL CAREER DEVELOPMENT** 3 credit hours 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. Lecture 3 hours. Prerequisite: Junior standing or permission of the department.

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

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

### FAMILY SCIENCE (FAMS)

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

**1163\* HUMAN ECOLOGY** 3 credit hours 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, economic, social, psychological and other factors. Lecture 3 hours.

**2153\* HUMAN SEXUALITY** 3 credit hours A general investigation of human sexuality against a background of changing sexual mores for physiological, psychological, and sociological perspective. Exploration of current issues and implication for future trends in human interaction. Special emphasis on the development of healthy interpersonal relationships. Lecture 3 hours.

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

**4123\* MARRIAGE** 3 credit hours Identification and analysis of stressors in contemporary marriages. Strategies for enrichment will be emphasized. Lecture 3 hours. Prerequisite: FAMS 1123 or PSY 1113.

**4133\* MIDDLE AND LATER ADULT YEARS** 3 credit hours Emphasis on development processes and generational

relationships. Individuals in middle and later stages of the family life cycle will be studied. Changing family composition, role transitions, support systems and potentials for enhancement will also be investigated. Lecture 3 hours. Prerequisite: FAMS 1123 or PSY 1113 or SOCI 1113.

**4143\* CRISIS MANAGEMENT AND RESOURCES** 3 credit hours 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. Lecture 3 hours. Prerequisite: Junior standing or permission of the department.

**4163 HEALTHY AGING** 3 credit hours Emphasis on demographic changes due to longevity; differences between aging and illness; and effects of aging that may be reversible. Lecture 3 hours. Prerequisite: Prerequisite: FAMS 1123 or PSY 1113.

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

**4333 CURRENT ISSUES IN FAMILY DIVERSITY** 3 credit hours An in-depth study of the historical, current, and projected demographic trends of American families. Students will examine the impact of increasing cultural diversity of American families on family theory, research, and service delivery. Lecture 3 hours. Prerequisite: FAMS 1123.

**4702 FIELD EXPERIENCE IN CHILD CARE** 2 credit hours Supervised study and field experience in a child care facility. Internship/field experience/capstone 2 hours. Prerequisite: Approval from Family and Child Studies major advisor, ECEC 1213, ECE 2163, ECEC 3233, EDUC 3023, ECEC 4333, and ECEC 4223.

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

**4881-4 INDEPENDENT STUDY IN FAMILY SCIENCE** 1-4 credit hours 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. Independent study/directed readings 1-4 hours. Prerequisite: Permission of the department.

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

### **FOOD AND NUTRITION SCIENCES (FNS)**

**3313 NUTRITION IN THE LIFE CYCLE** 3 credit hours 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: HLTH 1063.

### **PSYCHOLOGY (PSY)**

**1113\* GENERAL PSYCHOLOGY** 3 credit hours A study of the basic facts and principles of behavior. Lecture 3 hours. General Education, Behavioral Science.

**2001-3\* SELECTED TOPICS IN PSYCHOLOGY** 1-3 credit hours Contemporary and historical concerns of Psychology are

explored. A different topic may be presented each semester. Lecture 1-3 hours. Prerequisite: PSY 1113.

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

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

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

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

**3333 COUNSELING AND CLINICAL PSYCHOLOGY** 3 credit hours An introduction to the helping profession for students considering counseling or clinical psychology as a career. Lecture 3 hours. Prerequisite: PSY 1113.

**3353\* LIFESPAN HUMAN GROWTH AND DEVELOPMENT** 3 credit hours Survey of the psychological changes across the life span. Cognitive, social, emotional, and physical changes from birth to death will be examined. Lecture 3 hours. Prerequisite: PSY 1113.

**3363\* PSYCHOLOGY OF EARLY AND MIDDLE CHILDHOOD** 3 credit hours An in-depth study of the theories, research, and findings in the biological, psychological, and social development of early and middle childhood (conception to age 11). Prerequisite: PSY 1113.

**3373\* PSYCHOLOGY OF ADOLESCENCE AND EMERGING ADULTHOOD** 3 credit hours An in-depth study of the theories, research, and findings in the biological, psychological, and social development of adolescence and emerging adulthood (ages 12-30). Prerequisite: PSY 1113.

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

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

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

**3453 QUANTITATIVE ANALYSIS AND INTERPRETATION** 3 credit hours A strong emphasis will be placed on inferential analysis and interpretation procedures used in published articles in psychological journals. Students will become familiar with various software packages (e.g., Excel, SPSS, and

PowerPoint) and their use in the analysis and interpretation process. Analyses, interpretation, and presentation of independent and dependent t-tests, correlational testing, linear regression, simple and factorial ANOVAs, tests for outliers, normalcy, randomness, heterogeneity of variance, and post-hoc analyses will be included. Prerequisites: A grade of "C" or higher in PSY 3423.

**4313 PSYCHOLOGICAL TESTING** 3 credit hours A general survey of the principles, backgrounds, and procedures of psychological testing. Attention is given to interpretation of measuring instruments in the fields of personality and intelligence. Lecture 3 hours. Prerequisite: PSY 1113.

**4323\* SENSATION AND PERCEPTION** 3 credit hours An in-depth study of the biological properties of sensory systems and major phenomena in sensation and perception (e.g., adaptation, brightness, color and binocular vision, audition, taste, touch, imagery, individual differences, time and motion, attention and theories of psychophysical judgment including STD and classical). Lecture 3 hours. Prerequisite: PSY 1113.

**4331-3 SEMINAR IN PSYCHOLOGY** 1-3 credit hours 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.) Seminar 1-3 hours.

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

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

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

**4433 PSYCHOLOGICAL RESEARCH** 3 credit hours Students will design and conduct a psychological research project of sufficient quality for conference presentation. Material covered will include APA format research ethics, data analysis and conference presentation preparation. Lecture/capstone 3 hours. Prerequisites: PSY 1113, grade of "C" or higher in PSY 3423, and grade of "C" or higher in PSY 4423.

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

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

**4501 PSYCHOLOGY OF LOVE** 1 credit hour This workshop focuses on the psychological theories of love relationships within heterosexual relationships in marriage, courting, dating, attraction, cohabitation, and such. Theoretical models of Fehr, Lee, Rubin, Kelley, Grey, Smalley, Harley, and others are discussed. Seminar 1 hour.

**4511 DIFFERENCES IN RELATIONSHIPS BETWEEN MEN AND WOMEN** 1 credit hour We always hear the words "he said...she said" in relationships between the sexes. In this workshop we

investigate the many differences in relationships between a man and a woman involving friendship, dating, courtship, engagement, marriage, parenting, attraction, jealousy, sex, thought-processing, needs assessment, separation models, and infidelity issues. Seminar 1 hour.

**4521 PSYCHOLOGY OF DREAMING** 1 credit hour This workshop focuses on the psychological theories of dreams according to Freud, Jung, Adler, and other theorists. Other areas will include sleep stages and physical characteristics influencing psychological dream states. Seminar 1 hour.

**4531 STEPFAMILIES** 1 credit hour Even Cinderella had to deal with step-sisters. Divorce or death, and then remarriage involves many new complexities and relationships. This workshop investigates the family dynamics of step-families, relationships in step-families, step-parenting, power and equality within the blended family, children's issues of "intact and step" relationships, financial pressures in step-families, and issues involved in being the step-child. Seminar 1 hour.

**4541 BOYS TO MEN: THE CREATION OF MASCULINITY IN LITTLE BOYS** 1 credit hour "Me Tarzan... You Jane!" Mothers, watch out. Your little boy wants to grow up. The student will investigate the masculine needs of the male gender and developmental stages involving male maturity, as well as the issues that surround this wonderful part of life! The student will be challenged to look at concepts and theoretical models portraying boys that are "wild at heart" and the boy's need to "capture the key" from their mothers to run with the "wild man." Seminar 1 hour.

**4551 PARAPSYCHOLOGY** 1 credit hour This course has been designed to cover one of the (sometimes) controversial areas of psychology, that of parapsychological phenomenon. We will first study how each of the phenomena is defined, and then look at the research supporting that area, as well as some of the criticisms that have arisen. Seminar 1 hour.

**4561 PSYCHOLOGY OF BEHAVIORAL ADDICTION** 1 credit hour Ever hear "I just can't stop" or "It doesn't hurt me or anyone else" or "Why don't I change?" This workshop will investigate many aspects and concepts of "Behavior Addiction" in a psychological reference. Gambling, sex, internet and cell phone use, shopping, video games, food, and such are just a few areas of discussion. The student will dive into the theoretical study of personality, family, relationships, compulsiveness, pleasure and arousal, rituals, and other concepts to study the addiction cycle and to gain more knowledge of this topic. Seminar 1 hour.

**4571 PSYCHOLOGY OF FEAR** 1 credit hour "Lions, Tigers and Bears... Oh MY!!!" Why do we show fear? Why do we show fear when we shouldn't? This seminar investigates the psychological theories of fear, the five basic types of fears, categorization of fear and phobia, biological and neurological concepts of fear, social learning and conditioning of fear, fear addiction and magnetism, and overcoming fear. Seminar 1 hour.

**4581 ANGER MANAGEMENT** 1 credit hour Anger is neither good nor bad. Anger is a resource, and signal, letting us know that something needs to change. Anger is a tool It can manipulate. It can protect. Anger is something that we feel, both emotionally, and physically. When we are angry, we are some-other-emotion, too. This workshop will discuss the effective techniques that can be used to manage anger. Seminar 1 hour.

**4591 ANXIETY AND DEPRESSION MANAGEMENT** 1 credit hour Anxiety and depression are powerful human emotions that many people have experienced at one time or another. Cognitive-Behavioral (basically thinking and action oriented)

treatment approaches, which can help an individual learn to manage his or her life, as well as other treatment approaches will be discussed in this workshop. Seminar 1 hour.

**4601 INFIDELITY** *1 credit hour* Is it cheating... adultery... having an affair? Is it the subjective feeling that my spouse or lover has violated the rules of the relationship? This seminar will investigate different theories and concepts involving "*infidelity*" such as betrayal, jealousy, rivalry, emotional and physical issues, assumptions, and expectations that develop and are assumed in relationships. Seminar 1 hour.

\*Liberal arts and sciences course

## DEPARTMENT OF SOCIAL SCIENCES

Chair–Lance Janda, Professor

Professors: Bausch, Catterall, S. Janda, Odo

Associate Professors: Lee, Metzger, Montalvo

Assistant Professors: Whitman-Cobb

Instructor: Childs, Leija, Lowe, D. Smith, W. Smith

The [Department of Social Sciences](#) offers an Associate in Applied Science in Criminal Justice, Bachelor of Arts degrees in History, Political Science, and Social Studies Education, Bachelor of Science degrees in Criminal Justice and Sociology, and supports minors in corrections, criminal justice, geography, history, humanities, law enforcement, pre-law, political science, and sociology. Department courses also support the university General Education mission and prepare students for graduate study and careers in government, teaching, law, military service, and other professions.

### ASSOCIATE IN APPLIED SCIENCE DEGREE IN CRIMINAL JUSTICE (550)

- I. GENERAL EDUCATION REQUIREMENTS (24 hours)
  - A. Required Courses (18 hours) ENGL 1113, ENGL 1213, COMM 1113, PS 1113, HIST 1483 or HIST 1493, SOCI 1113 or PSY 1113 or FAMS 1123 or HON 2133
  - B. Approved General Education Electives (6 hours) MATH 1413 or above or a Biological or Physical Science course (3 hours) Humanities (3 hours)
- II. MAJOR REQUIREMENTS (33 hours)
  - A. Required Courses (15 hours) CJ 1013, CJ 2013, CJ 2073, CJ 2113, CJ 2233
  - B. Specialization (18 hours)
 

**Law Enforcement Specialization**  
Law Enforcement courses (12 hours) CJ 2001-3, CJ 2023, LE 2003, LE 2043, LE 2053, LE 2063, LE 2073  
Support courses (6 hours) CORR 2003, CORR 2023, CORR 2043, CORR 2053, CORR 2103

**Corrections Specialization**  
Corrections courses (12 hours) CJ 2001-3, CJ 2023, CORR 2003, CORR 2023, CORR 2043, CORR 2053, CORR 2103  
Support courses (6 hours) LE 2003, LE 2043, LE 2053, LE 2063, LE 2073
- III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE MAJOR IN HISTORY (130)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)  
This program requires a specific General Education course in U.S. History (HIST 1483).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (42 hours)
  - A. Required Courses (21 hours) HIST 1113, HIST 1123, HIST 1493\*, HIST 2113, HIST 2223, HIST 2133,\*\* and HIST 4793\*\*  
\*Both 1483 and 1483 must be taken, one for Gen Ed and one for the major.  
\*\*A grade of C or better is required for graduation.

- B. U.S. History Upper Division Electives (12 hours)
  1. *U.S. History to 1865 (3 hours)* HIST 4243, HIST 4253, HIST 4273, HIST 4283
  2. *U.S. History Since 1865 (3 hours)* HIST 4293, HIST 4313, HIST 4323, HIST 4283
  3. *U.S. History Surveys/Oklahoma Hist (3 hours)* HIST 4123, HIST 3043, HIST 3133
  4. *Internship or Additional U.S. History (3 hours)* HIST 3391-3, HIST 3483, HIST 4961-3, or One additional course from 1, 2, or 3 above.  
(NOTE: HIST 4283 may only be counted once.)
- C. Non U.S. History Upper Div Electives (9 hours)
  1. *Pre-Modern Non-U.S. History (3 hours)* HIST 4413, HIST 3033, HIST 3123, HIST 4353, HIST 4961-3
  2. *Modern Non-U.S. History (3 hours)* HIST 3243, HIST 4373, HIST 4443, HIST 4473, HIST 4961-3
  3. *Additional Non-U.S. History (3 hours)* HIST 3391-3, HIST 4971-3 or One additional course from 1 or 2 above.
- IV. MINOR REQUIREMENTS (18 hours)
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE MAJOR IN POLITICAL SCIENCE (162)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (39 hours)
  - A. Required Courses (12 hours)  
PS 2113, PS 2613, PS 2793, and PS 4683
  - B. Electives (27 hours)  
At least 3 hours must be taken in each of the following three areas; the remaining 18 hours may be selected from any or all of the areas and may include: PS 3613, 3633, 3721-3.  
*Global Politics (3 hrs min.)* PS 2001-3\*, PS 3213, PS 3223, PS 3333, PS 4023, PS 4043, PS 4053, PS 4491-3\*, PS 4591-3\*  
*Political Behavior (3 hrs min.)* PS 2001-3\*, PS 2713, PS 3013, PS 3023, PS 3043, PS 3113, PS 4491-3\*, PS 4591-3\*  
*American Institutions (3 hrs min.)* PS 2001-3\*, PS 2023, PS 3483, PS 3513, PS 3813, PS 4253, PS 4491-3\*, PS 4591-3\*  
\*PS 2001-3, PS 4491-3, and PS 4591-3 may each be taken for a maximum of 6 hours.
- IV. MINOR REQUIREMENTS (18 hours)
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE MAJOR IN SOCIAL STUDIES EDUCATION (135)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)  
This program requires specific General Education courses in Humanities–HIST 2113, Non-HIST humanities (3 hours), Behavioral Science–PSY 1113, U.S. History–HIST 1483, and Economics–ECON 2013.
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR CORE REQUIREMENTS (45 hours)

- A. **History (30 hours)** HIST 1113, HIST 1123, HIST 1493, HIST 2133, HIST 2223, HIST 3043, HIST 4773, U.S. History Electives (6 hours @ 3000+ level); Non-U.S. History Electives (3 hours @ 3000+ level)
- B. **Political Science (3 hours)** Political Science Elective (3 hours @ 2000+ level)
- C. **Economics (3 hours)** Economics Elective: ECON 2023 or GEOG 3023
- D. **Geography (6 hours)** GEOG 2243 and GEOG 3213
- E. **Social Studies (3 hours)** SOCI 1113
- IV. **REQUIRED EDUCATION COURSES (33 hours)**  
EDUC 1800, EDUC 3003, \*EDUC 3612, EDUC 3673, EDUC 3733, EDUC 3753(R), EDUC 4313(R), EDUC 4653(R), \*EDUC 4965(R), \*EDUC 4975(R), and SPED 3103  
\*Courses taken in the professional semester.  
(R)Restricted to students admitted to Teacher Education.
- V. **ELECTIVES TO COMPLETE 124 HOURS FOR GRADUATION**

Social Studies Education candidates must achieve a grade of C or better in all major core courses and required education courses to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

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

#### **Teacher Licensure/Certification**

Student who complete the requirements for this degree and pass the state tests for certification in World History/Geography, U.S. History/Oklahoma History/U.S. Government/Economics, and/or Psychology/Sociology will be eligible to apply for a standard teaching license.

### **BACHELOR OF SCIENCE DEGREE MAJOR IN CRIMINAL JUSTICE (580)**

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS (42 hours)**
  - A. **Required Core Courses (30 hours)** CJ 1013, CJ 2013, CJ 2073, CJ 2113, CJ 2233, CJ 3003, CJ 3103, CJ 4033, CJ 4133, CJ 4913
  - B. **Support Courses (12 hours)** At least 9 of these hours must be upper division CJ courses. The remaining 3 hours may be upper division CJ courses, or any other upper division hours. Departmental approval is required for use of lower division hours.
- IV. **MINOR REQUIREMENTS (18 hours)**  
(An Associate 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.)
- V. **ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

### **BACHELOR OF SCIENCE DEGREE MAJOR IN SOCIOLOGY (180)**

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS (39 hours)**
  - A. **Required Courses\* (18 hours)** SOCI 1113, SOCI 3013, SOCI 3123, SOCI 3133, SOCI 4213, and SOCI 4903\*\*  
\*Sociology majors are required to earn a 2.00 GPA in all required major courses.  
\*\*A C or higher is required for SOCI 4903.
  - B. **Electives (21 hours)** All courses selected must have the Sociology (SOCI) prefix. A minimum of 15 hours must be 3000-4000 (upper division) level with no more than 6 hours at the 1000-2000 (lower division) level.
- IV. **MINOR REQUIREMENTS (18 hours)**
- V. **ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

Note: Students must complete at least 40 hours of upper division courses.

### **COURSE DESCRIPTIONS CORRECTIONS (CORR)**

**2003\* CORRECTIONAL TREATMENT METHODS 3 credit hours**  
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.

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

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

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

**2103\* LAW OF CORRECTIONS 3 credit hours** An in-depth analysis of the evolution and current status of law governing correctional institutions, prisoner's rights, and relationship to society. Lecture 3 hours. Prerequisite: CJ 1013.

### **CRIMINAL JUSTICE (CJ)**

**1013\* INTRODUCTION TO CRIMINAL JUSTICE 3 credit hours**  
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 credit hours 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.

**1113\* APPLIED CRIMINOLOGY** 3 credit hours 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** 1-3 credit hours 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. Lecture 1-3 hours. Prerequisites: Sophomore standing and department permission.

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

**2023\* CRIMINAL JUSTICE REPORTING** 3 credit hours This course focuses on the preparation and use of standardized criminal justice reports and forms used to document facts and circumstances. The application of these documents in corrections, law enforcement, the judiciary, and the private sector is included. Lecture 3 hours. Prerequisites: CJ 1013.

**2073\* INTRODUCTION TO CORRECTIONS** 3 credit hours A general introduction to American corrections, including theories of punishment, social systems within correctional institutions, correctional history, contemporary prison issues, juvenile corrections and community corrections. Lecture 3 hours.

**2113\* CRIMINAL LAW** 3 credit hours 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.

**2233\* AMERICAN COURTS** 3 credit hours This course provides students with an understanding of the recognized functions of Courts in the American Criminal Justice System. It will address jurisdiction, policies, and procedures of courts in the administration of criminal justice, including trial and appellate courts. Courts will be examined at the local, state, and federal levels. Lecture 3 hours. Prerequisite: CJ 1013.

**3003\* JUVENILE JUSTICE SYSTEM** 3 credit hours 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.

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

**3023\* VICTIMOLOGY** 3 credit hours 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: CJ 1013.

**3033\* CONCEPTS OF CRIMINAL JUSTICE** 3 credit hours A study of current and emerging theories and concepts in criminal

justice. May be repeated with different topics for a total of 6 hours credit. Lecture 3 hours. Prerequisite: CJ 1013.

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

**3053\* EVIDENCE** 3 credit hours A study of the procedures for conducting civil litigation and criminal trials. Lecture 3 hours. Prerequisites: CJ 1013.

**3063\* CRIMINAL PROCEDURES** 3 credit hours An examination of constitutional case law as decided by the Appellate Courts and 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.

**3103\* THEORIES OF CRIME** 3 credit hours Theoretical explanations of etiology of crime (i.e., theories from biological, psychological, sociological, geographic, economic, and political perspectives). The nature and extent of crime, historical development of criminological theory, and analysis of crime control and its implications. Lecture 3 hours. Prerequisite: CJ 1013.

**3133\* ETHICS IN CRIMINAL JUSTICE** 3 credit hours This course discusses professional conducts of Criminal Justice practitioners. The institutional actors of the Criminal Justice system are granted a certain degree of discretion required for performing their jobs and this course will analyze the ethical boundaries of such discretion. Lecture 3 hours. Prerequisite: CJ 1013.

**3723 INTERNSHIP IN CRIMINAL JUSTICE** 3 credit hours 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. Internship 3 hours. Prerequisites: CJ major, junior standing, and instructor permission.

**4023\* TERRORISM** 3 credit hours 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.

**4033\* RESEARCH METHODS AND STATISTICS** 3 credit hours This course is an introduction to Social Science research. Basic methodological and statistical (applied) issues in Criminology and Criminal Justice will be discussed. Designed to provide students with a foundation in Social Science research methods. Lecture 3 hours. Prerequisite: MATH 1413 or higher and CJ 1013.

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

**4143\* SEXUAL ABUSE AND THE CRIMINAL JUSTICE SYSTEM** 3 credit hours 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.

**4153\* DEATH PENALTY** 3 credit hours An examination of the problems and issues related to the death penalty in the United States, including the history of capital punishment, important Supreme Court decisions, how the various jurisdictions (state, federal and military) deal with the capital cases, the comparative costs of incarceration and execution, miscarriages of justice in capital cases and how the criminal justice responds to these issues. Lecture 3 hours. Prerequisites: CJ 1013.

**4491-3\* SELECTED TOPICS IN CRIMINAL JUSTICE** 1-3 credit hours 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: CJ 1013.

**4503\* COMPARATIVE CRIMINAL JUSTICE SYSTEMS** 3 credit hours A comparative study of selected criminal justice systems existing in the world. Lecture 3 hours. Prerequisites: CJ 1013.

**4591-3\* INDEPENDENT STUDY IN CRIMINAL JUSTICE** 1-3 credit hours 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. Independent study/directed readings 1-3 hours. Prerequisites: CJ major, junior standing, and instructor's permission.

**4911-3\* CRIMINAL JUSTICE CAPSTONE** 1-3 credit hours CJ 4911-3 is a 1-3 hour course for graduating seniors in Criminal Justice. This course is designed to enhance students' knowledge in the fields of Criminology and Criminal Justice. It also serves as an introduction to careers in the Criminal Justice field, graduate schools, and other pertinent considerations for prospective CJ graduates. Capstone 1-3 hours. Prerequisite: CJ 1013.

### **GEOGRAPHY (GEOG)**

**2013\* PHYSICAL GEOGRAPHY** 3 credit hours 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 credit hours The principles of geography in its human aspects and its relationship to the cultural patterns of the world. Lecture 3 hours. General Education, Humanities-Diversity.

**3023\* ECONOMIC GEOGRAPHY** 3 credit hours 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. General Education, Economics.

**3033\* HISTORICAL GEOGRAPHY OF THE UNITED STATES** 3 credit hours Geographic environment of America and its influence on the historical evolution of the United States. Lecture 3 hours.

**3213\* WORLD REGIONAL GEOGRAPHY** 3 credit hours 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 credit hours 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.

**3391-3\* INDEPENDENT STUDY** 1-3 credit hours Intensive independent readings on or study of a specific topic in geography, based upon a pre-approved plan of study and action, with regular conferences and written and/or oral reports required. Independent study/directed readings 1-3 hours. Prerequisites: junior standing, prior completion of at least 6 credit hours in geography, and permission of instructor. May not be taken for elective credit for the Social Studies Education major. May be repeated with a different topic for a total of 6 hours of credit.

**3401-3\* SELECTED TOPICS IN GEOGRAPHY** 1-3 credit hours An intensive analysis of a selected problem or topic in geography. May be repeated with a different topic for additional credit. Independent study/directed readings 1-3 hours. Prerequisite: permission of instructor.

### **HISTORY (HIST)**

**1113\* EARLY WORLD HISTORY** 3 credit hours Survey of world history from the earliest times to 1400. Lecture 3 hours. General Education, Humanities-Diversity.

**1123\* MODERN WORLD HISTORY** 3 credit hours Survey of world history from 1400 to the present. Lecture 3 hours. General Education, Humanities-Diversity.

**1483\* UNITED STATES HISTORY TO 1865** 3 credit hours Introductory survey from European backgrounds through the Civil War. Lecture 3 hours. Prerequisite: Students must be eligible for ENGL 1113. General Education, U.S. History.

**1493\* UNITED STATES HISTORY SINCE 1865** 3 credit hours A survey of the development of the United States from 1865 to the present. Lecture 3 hours. Prerequisite: Students must be eligible for ENGL 1113. General Education, U.S. History.

**2113\* WESTERN CIVILIZATION I** 3 credit hours Using an interdisciplinary approach that incorporates materials chiefly from history but also from philosophy, art, and music, this course will provide the student a firm grounding in the History of Europe, including the history of those regions that influenced it such as northern Africa, the Middle East, and the Near East. Lecture 3 hours. General Education, Humanities-Diversity.

**2133\* AN INTRODUCTION TO HISTORICAL RESEARCH AND WRITING** 3 credit hours 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 and HIST 1483 or HIST 1493. Departmental permission required.

**2223\* WESTERN CIVILIZATION II** 3 credit hours Using an interdisciplinary approach that incorporates material chiefly from history but also from philosophy, art, and music, this course will provide the student a firm grounding in the History of Europe from the Renaissance to the present. Lecture 3 hours. General Education, Humanities-Diversity.

**3033\* THE ATLANTIC WORLD, 1400-1850** 3 credit hours This course examines the relationships which developed among Africa, the Americas and Europe between 1400 and 1850. Students will examine European exploration and colonization, African state-building and the Atlantic slave trade, and the destruction of old and the creation of new American societies and cultures. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**3043\* OKLAHOMA HISTORY** 3 credit hours A survey of the development of Oklahoma from the time of the discovery of

America to the present. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**3123\* THE CRUSADES** *3 credit hours* From the middle of the 10<sup>th</sup> century C.E. through the early 16<sup>th</sup> century, Europeans and the peoples of North Africa and the Eastern Mediterranean interacted with a greater intensity than ever before, inaugurating a complex history of interaction that has been with us ever since. In origin a religiously motivated enterprise on the European side that aimed at nothing less than the reclamation of the Holy Land for Christianity, the Crusades rapidly became both more and less than this. Less in the sense that conflict did not always happen for religious reasons, more in that the practices of crusading spread far beyond the Holy Land to encompass the Iberian peninsula, Eastern Europe, and, perhaps most ironically of all, the Christian Byzantine empire. In this course we will address crusading in all of its forms from the High Middle Ages to the dawn of the Reformation. We will also seek to tell the stories of all involved to explore crusading as a cultural, economic, and social phenomenon as well as examining its more familiar military, religious, and political sides. In the process we will explore current controversies among scholars and in popular culture concerning what the Crusades were and what they mean to people today. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**3133\* AMERICAN MILITARY HISTORY** *3 credit hours* A survey of American military history from American Revolution to the present. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or 1493.

**3243\* BRITAIN SINCE 1689** *3 credit hours* Emergence of cabinet government, the Industrial Revolution, the Napoleonic era and empire problems, and the development of Britain to the present. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**3391-3\* INDEPENDENT STUDY** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisites: HIST 2133, 15 additional hours of history and permission of instructor. May be repeated with a different topic for a total of 6 hours credit.

**3483\* PUBLIC HISTORY INTERNSHIP** *3 credit hours* An intensive exposure to and involvement in work done by public historians at area museums. Students will work with primary sources, document collections, artifacts, public displays, educational and marketing publications, and make presentations to the public or to museum staff under the direction of a Cameron University faculty member in partnership with a supervising historian or other qualified professional at the museum. The student, the supervisor at the museum, and the directing Cameron faculty member will sign an agreement stipulating terms of the internship in advance. Internship 3 hours. Prerequisite: 3.0 Retention GPA, ENGL 1213, 18 hours of history, and the permission of the directing faculty member and the chair of the department. HIST 2133 strongly recommended.

**4123\* AMERICAN WOMEN, 1619-PRESENT** *3 credit hours* A survey of American women from the colonial period to present with emphasis on their changing socio-economic and political roles. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4243\* AMERICAN COLONIAL HISTORY** *3 credit hours* 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. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4253\* THE AMERICAN REVOLUTION AND EARLY NATIONAL PERIOD** *3 credit hours* The French and Indian War; the British imperial system; the causes and immediate consequences of the War for American Independence; the drafting and adoption of the federal constitution and organization of a new national government; the origin and development of political parties; the conflict between nationalism and sectionalism; foreign policy, economic development, social change, and territorial expansion to 1824. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4273\* THE AGE OF JACKSON AND AMERICAN EXPANSION, 1815-1848** *3 credit hours* A political history of the period between 1815 and 1848. The impact of nationalism, liberalism, and sectionalism upon American life in the middle period. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4283\* THE CIVIL WAR AND RECONSTRUCTION, 1848-1877** *3 credit hours* The coming of the war; 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; and an intensive study of the major challenges facing the United States in the aftermath of the Civil War. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4293\* THE GILDED AGE AND PROGRESSIVE ERA, 1877-1920** *3 credit hours* A study of the major events and movements in the United States between 1877 and approximately 1920. Special attention is given to the rise of modern industrialism and the organization of labor and farmers. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4313\* WAR AND DEPRESSION, 1917-1945** *3 credit hours* The United States in the aftermath of World War I; the Roaring Twenties; the Great Depression; and World War II. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4323\* AMERICA, 1945-PRESENT** *3 credit hours* 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 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4353\* NORTHERN EUROPE, 1300-1800** *3 credit hours* This course focuses on the major cultural, social, political and economic developments in those European cultures bordering on the Baltic Sea and the North Sea, with particular emphasis on the British Isles, northern Germany, Sweden, Poland, and the Low Countries. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM

2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**4373\* EUROPE 1789-1914** *3 credit hours* Europe during the French Revolution and Napoleonic Era; the Congress of Vienna and the Congress system; the revolutions of 1830 and 1848; the unification of Italy and Germany; industrialism, social change, and the coming of World War I. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**4413\* RELIGION AND MAGIC IN EARLY MODERN EUROPE, 1400-1650** *3 credit hours* From the 15<sup>th</sup> to the mid-17<sup>th</sup> centuries, religious relationships changed dramatically within European societies. One path of change led to the Reformation, producing Protestant alternatives to what we now know as Catholicism. Another path led to bureaucratized and centralized power that tied community membership to shared religious outlooks. From care for the poor, the sick, and the elderly to marriage and tolerance of diversity, peoples' lives were transformed, while politics took on a more religious and, often, deadly turn, culminating in the Thirty Years' War. Perhaps the most dramatic path of all concerned the reform, even repression of popular religion as European societies attempted to root out witchcraft and newly vigilant and pious elites struggled to stamp out what they saw as superstition and worse. In this course, we explore these and other manifestations of the cataclysmic change that characterized this era. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**4443\* 20<sup>TH</sup> CENTURY EUROPEAN HISTORY** *3 credit hours* The quest for security in the 1920's; the rise of the dictators; the road to World War II; the emergence of an integrated Europe; and the Cold War and its aftermath. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**4473\* THE HISTORY OF NAZI GERMANY** *3 credit hours* A study of the rise of National Socialism in Germany in the aftermath of World War I, the Great Depression, and the ascension of Adolf Hitler. The Second World War and the destruction of German Fascism are covered in detail. Lecture 3 hours. Prerequisites: ENGL 1213, and HIST 1113, or HIST 1123, or HIST 2113, or HIST 2223, or HUM 2713, or ENGL 3063, or ENGL 3073, or ART 2613, or ART 2623. HIST 2133 strongly recommended.

**4773 METHODS OF TEACHING SOCIAL STUDIES** *3 credit hours* An intensive study of the problems and methods associated with teaching Social Studies at the Secondary level. Lecture 3 hours. Offered fall semester only. Prerequisite: EDUC 3003 and Admission to Teacher Education.

**4793\* SENIOR SEMINAR IN HISTORY** *3 credit hours* 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. Capstone/lecture 3 hours. Prerequisites: 18 hours of history including HIST 2133 strongly recommended.

**4961-3\* SELECTED TOPICS IN UNITED STATES HISTORY** *1-3 credit hours* An intensive analysis of a selected problem or topic in United States history. May be repeated, with a different topic,

for additional credit. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1483 or HIST 1493. HIST 2133 strongly recommended.

**4971-3\* SELECTED TOPICS IN EUROPEAN AND WORLD HISTORY** *1-3 credit hours* An intensive analysis of a selected problem or topic in European or World history. May be repeated, with a different topic, for additional credit. Lecture 3 hours. Prerequisites: ENGL 1213 and HIST 1113 or HIST 1123 or HIST 2113 or HIST 2223 or HUM 2713 or ENGL 3063 or ENGL 3073 or ART 2613 or ART 2323. HIST 2133 strongly recommended.

### **HUMANITIES (HUM)**

**2113\* HUMANITIES I: PRE-HISTORY TO 1500** *3 credit hours* A survey of the art, architecture, music, literature, philosophy, and religion of Western culture from the ancient through the end of the medieval period. Lecture 3 hours. General Education, Humanities–Aesthetics.

**2223\* HUMANITIES II: 1500 TO THE PRESENT** *3 credit hours* A survey of the art, architecture, music, literature, philosophy, and religion of Western culture from the end of the medieval period to modern times. Lecture 3 hours. General Education, Humanities–Aesthetics.

**2613\* SELECTED TOPICS IN THE HUMANITIES** *3 credit hours* An intensive analysis of a selected problem or topic in the humanities. May be repeated, with a different topic, for additional credit. Lecture 3 hours.

### **LAW ENFORCEMENT (LE)**

**2003\* SECURITY CONCEPTS** *3 credit hours* 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. Prerequisite: CJ 1013.

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

**2053\* METHODS OF INVESTIGATION I** *3 credit hours* The duties of law enforcement personnel who initially respond to different categories of crime scenes. Specific topics include crime scene protection, interviewing witnesses, and chain of custody issues. Lecture 3 hours. Prerequisites: CJ 1013 and CJ 2113.

**2063\* METHODS OF INVESTIGATION II** *3 credit hours* The role of law enforcement personnel in the preparation of a case for presentation in court. Coverage will include successful case management techniques that encompass current and emerging forensic technologies. Lecture 3 hours. Prerequisites: LE 2053.

**2073\* LEGAL ASPECTS OF POLICING** *3 credit hours* The exploration of substantive and procedural laws as the foundation of police functions and services to society. The course will explain how the Bill of Rights and democratically inspired legal restraints on police help ensure personal freedoms in our society. Lecture 3 hours.

### **PHILOSOPHY (PHIL)**

**1113\* INTRODUCTION TO PHILOSOPHY** *3 credit hours* This class aims to introduce students to philosophy as an academic discipline and as a distinctive intellectual and moral attitude towards the world and oneself, one marked by the belief that the use of reason in the search for truth is the most important human activity. We will consider questions such as the relation between philosophy and society, the existence of God, the character of

and grounds for human knowledge, and the nature and status of morality. Throughout we will concentrate on close readings of the texts under discussion. Representative readings: Plato, Aquinas, Descartes, Nietzsche. Lecture 3 hours. General Education, Humanities–Diversity.

**2713\* INTRODUCTION TO WORLD RELIGIONS 3 credit hours** One of the most widespread forms of human thought and behavior is religious belief and practice. This course will survey the history, practices, and beliefs of several religions, giving most attention to those enjoying current and widespread practice. Religions covered will include Hinduism, Buddhism, Judaism, Christianity, and Islam, plus others. The approach will be historical, with some use of other disciplines such as sociology, philosophy, and anthropology. Some attention will also be given to various definitions of religion, and various explanations for religious practice. The perspective used will be non-sectarian, with no particular religion, nor secularism, given priority of place. Lecture 3 hours.

### **POLITICAL SCIENCE (PS)**

**1113\* AMERICAN FEDERAL GOVERNMENT 3 credit hours** 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. Prerequisite: Students must be eligible for ENGL 1113. General Education, Political Science.

**2001-3\* SPECIAL PROBLEMS IN POLITICAL SCIENCE 1-3 credit hours** An analysis of a selected problem or special topic in political science. May be repeated with different topics for a total of 6 hours credit. Lecture 1-3 hours. Prerequisites: Sophomore standing and department permission.

**2013\* INTRODUCTION TO INTERNATIONAL STUDIES 3 credit hours** An introduction to the history, theories, and practices of international studies. Students will be exposed to the analytical tools of international relations as a means of helping them understand and analyze global events and issues. Lecture topics will include terrorism, human rights, the environment, war, collective security, nationalism, imperialism, foreign policy, gender and income inequality, development and aid, and globalization among others. Lecture 3 hours. Prerequisite: ENGL 1213.

**2023\* STATE AND LOCAL GOVERNMENT 3 credit hours** A study of the various political units in the United States with emphasis on states, counties, and municipalities. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**2113\* CONCEPTS OF POLITICAL SCIENCE 3 credit hours** An introduction to basic political concepts, institutions and processes, as well as a review of career opportunities for political scientists. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**2613\* INTRODUCTION TO POLITICAL THOUGHT 3 credit hours** Introduction to the philosophical analysis of politics through study of selected central questions of political thought (such as the nature of justice, power, liberty, or the best regime) in relation to the principles of classical liberalism. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**2793\* RESEARCH METHODS IN POLITICAL SCIENCE 3 credit hours** The study and application of empirical research methods in political science. The course will include an overview of research designs, the conduct of empirical research, and the

organization and preparation of research papers. Lecture 3 hours. Prerequisites: STAT 1513.

**3013\* POLITICAL PARTIES AND INTEREST GROUPS 3 credit hours** 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. Prerequisites: PS 1113 and ENGL 1213.

**3023\* PUBLIC OPINION 3 credit hours** 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. Prerequisites: PS 1113 and ENGL 1213.

**3043\* THE MEDIA IN AMERICAN POLITICS 3 credit hours** A comprehensive analysis of the media in American politics, including an analysis of media modes, news development, restraints on the media, the people and the media, intermediaries and the media, and how the branches of government interact with the media. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**3113\* PUBLIC ADMINISTRATION AND POLICY 3 credit hours** 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. Prerequisites: PS 1113 and ENGL 1213.

**3213\* GLOBAL POLITICAL ECONOMY 3 credit hours** An introduction to the economic and international relations issues of trade, finance, production networks, state economic policies, development economics, inequality, international finance organizations, and globalization. The course introduces students to perspectives of economic liberalism, mercantilism, and structuralism that they can use to analyze global political problems. Lecture 3 hours. Prerequisite: PS 1113 and ENGL 1213.

**3333\* COMPARATIVE GOVERNMENT 3 credit hours** A survey of concepts, approaches, and models used in comparative political research. The course includes an analysis of selected political systems in the modern world including liberal democracies, communist/post-communist systems, and developmental authoritarian regimes. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**3483\* THE AMERICAN PRESIDENCY 3 credit hours** A comprehensive study of the American Presidency with emphasis on the office's powers, influence and selection process. The course will also deal with relations between the President and other branches of government. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**3513\* THE LEGISLATIVE PROCESS 3 credit hours** 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. Prerequisites: PS 1113 and ENGL 1213.

**3633\* AMERICAN POLITICAL THOUGHT 3 credit hours** 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. Prerequisites: PS 1113 and ENGL 1213.

**3721-3 INTERNSHIP IN POLITICAL SCIENCE** *1-3 credit hours* 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. Internship 1-3 hours. Prerequisites: PS 1113 and ENGL 1213, Political Science major, junior standing, and instructor permission.

**3813\* CONSTITUTIONAL LAW AND GOVERNMENT: THE AMERICAN EXPERIENCE** *3 credit hours* A comprehensive analysis of American constitutionalism and constitutional law, to include development of governmental powers, federalism, and civil rights and civil liberties. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**4023\* SPECIAL TOPICS: WORLD REGIONAL POLITICS** *3 credit hours* A comparative analysis of the political institutions and processes of a selected world region. The course will be taught with a different regional focus, including the Middle East, Latin America, Asia and Eastern Europe. The course may be taken twice, given a different regional focus. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**4053\* U.S. FOREIGN POLICY** *3 credit hours* An examination of the content, formulation, and execution of U.S. foreign policy, with emphasis on the post-World War II period. The course also explores the relationship of U.S. foreign policy to its domestic foundations and to the larger international system. Lecture 3 hours. Prerequisites: PS 1113 and ENGL 1213.

**4253\* THE JUDICIAL PROCESS** *3 credit hours* 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. Prerequisites: PS 1113 and ENGL 1213.

**4491-3\* SELECTED TOPICS IN POLITICAL SCIENCE** *1-3 credit hours* An intensive analysis of a selected political problem or special topic in political science. May be repeated with a different topic for a total of 6 hours credit. Lecture 1-3 hours. Prerequisites: PS 1113 and ENGL 1213.

**4591-3\* INDEPENDENT STUDY IN POLITICAL SCIENCE** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisites: PS 1113 and ENGL 1213, Political Science major, junior standing, and instructor permission.

**4683\* POLITICAL SCIENCE CAPSTONE** *3 credit hours* This course consists of relevant readings and discussion to assist seniors majoring in Political Science with developing a more complete understanding of the discipline as a whole and in applying knowledge gained throughout their studies to create an original written thesis. The course also provides an opportunity for students to examine career opportunities and graduate education in political science and to complete a series of examinations designed to assess their overall knowledge of political science as well as their critical thinking and writing skills. The class should be taken during the final semester prior to graduation if possible. Capstone/lecture 3 hours. Prerequisite: ENGL 1213, PS 1113, and 18 hours of Political Science. PS 2113 and PS 2793 strongly recommended.

## **SOCIOLOGY (SOCI)**

**1113\* INTRODUCTION TO SOCIOLOGY** *3 credit hours* A survey of the fundamental concepts and scope of sociology focusing on the understanding of human behavior and social organization. Topics include the sociological perspective, culture, social interaction, social inequality, social institutions, and social change. Lecture 3 hours. General Education, Behavioral Science.

**2023\* SOCIAL PROBLEMS** *3 credit hours* An overview of the subjective and objective aspects of social problems. Topics include: poverty, various forms of inequality, population, work, crime, substance abuse, health, education, and the environment. Lecture 3 hours. Prerequisite: SOCI 1113.

**2513\* INTRODUCTION TO SOCIAL WORK** *3 credit hours* An overview and history of the profession of social work. Topics include a survey of social work values and professional ethics, in addition to the history of social welfare and human services policy in the U.S. Lecture 3 hours. Prerequisite: None.

**3003\* DEVIANT BEHAVIOR** *3 credit hours* The course consists of an overview of sociological theories of deviant behavior, along with a discussion of various types of deviant behavior, including violent and property crime, mental illness, diverse lifestyles, substance use and abuse, and white-collar/corporate crime. Lecture 3 hours. Prerequisite: SOCI 1113.

**3013\* RACE AND ETHNIC RELATIONS** *3 credit hours* An examination of the historical, political, economic, and sociological dynamics of race and ethnic relations in the United States. The course includes an emphasis on how race and ethnicity are created and re-created in society, particularly by culture and social institutions, and the manner in which these processes create and perpetuate social inequality. Lecture 3 hours. Prerequisite: Must be ENGL 1113 eligible (i.e., have no English deficiencies). General Education, Humanities-Diversity.

**3113\* SOCIAL STATISTICS** *3 credit hours* An overview of descriptive and inferential statistics and their application in sociological research. Topics include: measures of central tendency and variability, probability, sampling distributions, Chi-square, correlation, and simple regression. Lecture 3 hours. Prerequisites: SOCI 1113 and STAT 1513 or MATH 1413 or higher.

**3123\* SOCIOLOGICAL THEORY** *3 credit hours* A study of major explications on social conflict, change, integration, interaction, network, and modernity. Attention is given to general orientations and basic concepts underlying Marxism, critical theory, world-system theory, interactionism, ethnomethodology, and functionalism. The course stresses Marx, Weber, and Durkheim in relation to social criticism, social evolution, and social modernity respectively, on one hand and, on the other, their contemporary relevance and theoretical offshoots in the field. Lecture 3 hours. Prerequisite: SOCI 1113.

**3133\* SOCIOLOGICAL RESEARCH METHODS** *3 credit hours* Introduction to the basic concepts of sociological research. Topics include research design, conceptualization and measurement, sampling, qualitative and quantitative data collection techniques, and analyses of data. Lecture 3 hours. Prerequisite: SOCI 1113.

**3223 SOCIAL PSYCHOLOGY** *3 credit hours* This course examines social psychological phenomena from a sociological perspective. Topics covered include socialization, attitudes, communication, aggression, group behavior, and gender roles. Lecture 3 hours. Prerequisite: SOCI 1113.

**3323\* COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS** *3 credit hours* A study of the episodic and enduring collective

actions through various research and perspectives on fad, riot, crowd, protest, public, and social movements. Attention is given to how collective actions unfold and how they are sustained in relation to emergence, participation, mobilization, organization, strategy, outcome, movement ideology, and social-political environments. The course stresses the questions that competing perspectives and different research ask about collective actions and characteristic ways that they try to answer them. Lecture 3 hours. Prerequisite: SOCI 1113.

**3343\* POLITICAL SOCIOLOGY** *3 credit hours* A study of politics as politicized everyday social world and as interrelated activities that shape and are shaped by established institutions. Attention is given to: (a) politics at the level of nation-states such as politics and religion, forms of political rule and authority, globalization and its political outcomes; (b) politics at the level of politicized social world such as contentious protests of historically marginalized minorities and the broadening of political arena toward the realm of culture and identity; and (c) corporate-class politics or the preponderant power of corporate communities over policy issues. Lecture 3 hours. Prerequisite: SOCI 1113.

**3353\* SOCIAL DEMOGRAPHY** *3 credit hours* 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 credit hours* The community, its structure, systems and processes. This course covers the influence of geography, demography and patterns of settlement upon social life. Lecture 3 hours. Prerequisite: SOCI 1113.

**3403\* SOCIOLOGY OF THE FAMILY** *3 credit hours* This course introduces the student to a historical overview of the American family, along with the intersections of social class, gender, and race/ethnicity in family contexts. Topics include mate selection, connections between work and family life, marriage, parenting, divorce, stepfamilies, and violence in families. Lecture 3 hours. Prerequisite: SOCI 1113.

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

**3503\* POPULAR CULTURE** *3 credit hours* A study of culture as the mass production, circulation, and consumption of visual texts and behavioral practices in multiple forms. Attention is given to what forms of social life popular culture depicts, how it molds and fractures local cultures, how it solidifies group identities and blends individual differences, how it is incorporated into social criticisms of power and domination, what standardizations it creates, and what it reveals about class-gender-race relations. The course stresses interpretive analyses and theories advanced in the field. Lecture 3 hours. Prerequisite: SOCI 1113.

**3513\* INTRODUCTION TO SOCIAL WELFARE AND HUMAN SERVICES** *3 credit hours* An introduction to social welfare institutions, including the purposes, concepts, methods, and theories used in the delivery of human services. Lecture 3 hours. Prerequisite: SOCI 1113.

**3733\* SOCIOLOGY OF GENDER** *3 credit hours* This course will examine the processes by which gender is socially constructed, along with the distinction between biological sex and sociological gender, the causes and consequences of gender inequality, and a historical overview of gender relations in

different social institutions and societies. Lecture 3 hours. Prerequisite: SOCI 1113.

**3853\* SELECTED TOPICS IN SOCIOLOGY** *3 credit hours* 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 3 hours. Prerequisites: SOCI 1113.

**3991-3 INTERNSHIP IN SOCIOLOGY** *3 credit hours* The placement of sociology majors in various applied job settings. The course involves frequent contact with a faculty supervisor and an off-campus supervisor evaluation. May be repeated for a total of 3 credit hours. Internship 1-3 hours. Prerequisites: Student must be a sociology major, have completed 12 credit hours of sociology coursework, and have junior standing.

**4003\* CRIMINOLOGY** *3 credit hours* This course introduces the student to the study of criminal behavior, including theoretical explanations of this behavior from a sociological perspective. Topics include: violent crime, property crime, occupational crime, corporate crime, and political crime. Lecture 3 hours. Prerequisites: SOCI 1113.

**4013\* JUVENILE DELINQUENCY** *3 credit hours* This course examines the trends and nature of delinquency in the U.S., with an emphasis on theoretical explanations of delinquency from a sociological perspective. Larger social contexts will also be considered, including the role of schools, peers, community, and the family. Aspects of the juvenile justice system in the U.S. will also be examined. Lecture 3 hours. Prerequisite: SOCI 1113.

**4103\* SOCIOLOGY OF RELIGION** *3 credit hours* A study of religion as a social institution organized into groups. Attention is given to social explanations of religious beliefs and rituals. The course stresses how the principles of group life impinge on religion, how conflict figures commonly in religious organization, what constitutes church-sect continuum, what differentiates denominations from "alternative" religions, how religion relates to race/ethnicity, class, politics, economy, social reproduction, and social change, and what explains secularization and fundamentalism. Lecture 3 hours. Prerequisites: SOCI 1113.

**4213\* SOCIAL STRATIFICATION** *3 credit hours* 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.

**4303\* GLOBALIZATION AND DEVELOPMENT** *3 credit hours* This course examines the causes and consequences of globalization. Issues are examined from a changing historical context of economy, politics, and culture. Lecture 3 hours. Prerequisites: SOCI 1113.

**4403\* FAMILY VIOLENCE** *3 credit hours* A sociological analysis of child abuse, intimate partner violence, and elder abuse, with an emphasis on causes and trends. Lecture 3 hours. Prerequisites: SOCI 1113.

**4491-3\* INDEPENDENT STUDY** *1-3 credit hours* Independent study of sociologically relevant topics not covered in current sociology courses. May be repeated with a different topic for a total of 3 credit hours. Independent study 1-3 hours. Prerequisites: Student must be a sociology major, have completed 15 hours of sociology coursework, and junior standing.

**4533 HUMAN SERVICES COUNSELING STRATEGIES** *3 credit hours* A study of counseling and interviewing strategies useful in a human service context. Role playing using such techniques as paraphrasing, reflecting, and open questions will be part of the

classroom experience. Lecture 3 hours. Prerequisites: SOCI 1113.

**4903\* SOCIOLOGY CAPSTONE** *3 credit hours* This course provides an overview of the major concepts in sociology with an emphasis on the integration of these concepts at an advanced level. This course will also cover career options and graduate education in sociology. Sociology program assessment is a component of the course. Sociology majors are required to take this course during their Senior year. Capstone 3 hours. Prerequisites: Student must be a sociology major, have taken SOCI 1113, SOCI 2013, SOCI 2223, and completed at least 18 credit hours of sociology coursework.

\*Liberal arts and sciences course.

## DEPARTMENT OF SPORTS AND EXERCISE SCIENCE

Chair-Stephanie Boss, Assistant Professor  
Instructors: Chambers, Hollandsworth, Mahlock

The [Department of Sports and Exercise Science](#) offers a Bachelor of Science degree in Sports and Exercise Science.

### BACHELOR OF SCIENCE DEGREE

#### MAJOR IN SPORTS AND EXERCISE SCIENCE (370)

##### I. GENERAL EDUCATION REQUIREMENTS (44 hours)

This program requires specific General Education courses in Behavioral Science (PSY 1113), and Health and Wellness (PE 1021, PE 1181, PE 1091, PE 1271).

##### II. UNIVERSITY REQUIREMENTS (1-3 hours)

UNIV 1001 or 1113

##### III. MAJOR REQUIREMENTS\* (80 hours)

\*A grade of C or better is required in all core courses and additional requirements.

**A. Required Core Courses (65 hours)** HLTH 1053, HLTH 1063, HLTH 2213, HLTH 3212, HLTH 3243, HLTH 3293, HLTH 3342, HLTH 3473, HLTH 4503, HLTH 4553, HLTH 4562, HPET 2323, HPET 3013, HPET 3023, HPET 3242, HPET 3343, HPET 3372, HPET 3373, HPET 4003, HPET 4203, HPET 4213, HPET 4224, HPET 4313

##### B. Additional Requirements\*\* (15 hours)

ACCT 2013, BIOL 2013, BIOL 2034, BIOL 2134, BUS 2113, CHEM 1004, CHEM 1361, CHEM 1364, CHEM 1471, CHEM 1474, CIS 1013, COMM 3313, HLTH 3013, HLTH 3303, HLTH 3613, HPET 2341-3, HPET 3053, HPET 3333, HPET 3353, HPET 3363, HPET 3383, HPET 4773, HPET 4781-4, MGMT 3013, MKTG 3413, MKTG 4481-3, MSL 3011, MSL 3013, MSL 3021, MSL 3023, MSL 4004, MSL 4011, MSL 4013, MSL 4021, MSL 4023, PHYS 1004, PHYS 1115, PHYS 1215, PSY 2373, PSY 3353, PSY 3423, PSY 4363, SOCI 2013

\*\*Some courses require completion of prerequisites.

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

### COURSE DESCRIPTIONS

#### HEALTH (HLTH)

**1012\* DIMENSIONS OF WELLNESS AND EXERCISE SCIENCE 2 credit hours** 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. General Education, Health and Wellness.

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

**1063\* BASIC NUTRITION 3 credit hours** An introduction to the science of human nutrition and extensive information on the design and implementation of nutrition strategies to assist individuals in achieving their personal goals. Additional content includes sports nutrition information and dietary practices for the fitness enthusiast, as well as topics related to energy and

weight management for various populations. Lecture 3 hours. General Education, Health and Wellness.

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

**3013 ADAPTED PHYSICAL EDUCATION 3 credit hours** Principles and problems related to adapting physical activities and exercises to specific requirements of exceptional individuals. Additionally requires field component in an appropriate setting. Lecture 3 hours. Prerequisite: HPET 2323.

**3212 SPORTS NUTRITION 2 credit hours** This course will examine sound nutritional knowledge and practices based on current scientific literature essential to optimal health for all populations engaged in various levels of physical activity. Lecture 2 hours. Prerequisite: HLTH 1063.

**3243 APPLIED ANATOMY AND KINESIOLOGY 3 credit hours** The study of the mechanical and anatomical functions of human motion. (May not be used as a Biology course.) Lecture 3 hours.

**3293 CARE AND PREVENTION OF ATHLETIC INJURIES 3 credit hours** This course provides instruction related to the care and prevention of injuries associated with participation in sport and physical activity programs. Lecture 3 hours. Prerequisite: HLTH 3243.

**3303 SCHOOL AND COMMUNITY HEALTH PROGRAMS 3 credit hours** 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.

**3342 PERSONAL TRAINING 2 credit hours** This course is designed to prepare students to become certified as a professional personal trainer. Topics include anatomy, biomechanics, exercise physiology, fitness testing and health assessment, nutrition, exercise prescription, equipment usage, special populations, legal and safety issues. Lecture 2 hours. Prerequisite: HLTH 4503.

**3473 HEALTH AND BEHAVIOR CHANGE 3 credit hours** This course is designed to provide an understanding of the relationship between health and behavior. Students will understand the social, cultural and psychological determinants of health and illness. Students will develop a solid grounding in social/behavioral theory and learn how they impact the formulation of health intervention programs. Lecture 3 hours. Prerequisite: HPET 2323.

**3613\* DRUGS AND SOCIETY 3 credit hours** A study of substance abuse emphasizing the adverse effects on human life, health, traffic safety, and daily living. Lecture 3 hours.

**4503\* PHYSIOLOGY OF EXERCISE 3 credit hours** 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 3243.

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

**4562 PRINCIPLES OF STRENGTH TRAINING AND CONDITIONING 2 credit hours** The course is designed to prepare students to become certified as a professional strength and conditioning coach. Emphasis is placed on strength, speed, cardiovascular, and flexibility training through the use of

concepts learned in physiology, anatomy, kinesiology, and psychology for appropriate exercise program design, safe exercise technique, and ways to assess physical improvement for various sports and physical activities. Lecture 2 hours. Prerequisites: HLTH 4503.

### **HEALTH & PHYSICAL EDUCATION THEORY** **(HPET)**

**2323 INTRODUCTION TO SPORTS AND EXERCISE SCIENCE 3 credit hours** A foundational approach to interpretations and objectives of Sports and Exercise Science, 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 3 hours. (Recommended for Freshmen and Sophomore majors.)

**2341-3 SPECIAL STUDIES 1-3 credit hours** 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. Independent study/directed readings 1-3 hours. Prerequisite: Department permission.

**3013 SPORT PSYCHOLOGY 3 credit hours** An analysis of the psychological factors involved in sport and physical activity with an emphasis on performance enhancement. Lecture 3 hours. Prerequisite: PSY 1113.

**3023 SPORT AND FITNESS MANAGEMENT 3 credit hours** An introductory course designed to provide experiences related to physical, financial and human aspects in the design, management and operation of sport and fitness facilities. Lecture 3 hours. Prerequisite: HPET 2323.

**3053 THEORY OF COACHING/SPORTS OFFICIATING 3 credit hours** This course is designed to explore the theory of coaching seasonal sports with practical application in techniques and mechanics of officiating. A practicum experience of 6 hours is required to provide on-site practice and participation. Lecture 3 hours. Prerequisite: HPET 2323.

**3242 EXERCISE AND TECHNOLOGY 2 credit hours** This course is designed to introduce technology practices in various sports and exercise science settings. Lecture 2 hours. Prerequisite: HPET 2323.

**3333 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL 3 credit hours** Program and management of games and activities including movement learning for elementary school age children. Concepts of health including wellness, fitness, and nutrition are explored. Additionally requires a field component in the public schools. Lecture 3 hours. Prerequisite: HPET 2323.

**3343 PHYSICAL EXAMINATIONS AND MEASUREMENTS 3 credit hours** Instruction in methods and techniques designed to measure, assess and evaluate performance in sport, fitness and physical education settings. Laboratory experiences and field components required. Lecture 3 hours. Prerequisite: STAT 1513 or MATH 1413 or higher.

**3353 OUTDOOR RECREATION 3 credit hours** Philosophy of leisure, economic significance, recreation fields, and an introduction to basic outdoor activities and skills. Lecture 3 hours. Prerequisite: HPET 2323.

**3363\* COMMUNITY AND RECREATIONAL LEADERSHIP 3 credit hours** Introductory course in the history, philosophy, organization, management, and materials of community and private recreation. Lecture 3 hours. Prerequisite: HPET 2323.

**3372 TECHNIQUES AND SKILLS FOR GROUP EXERCISE 2 credit hours** The course is designed to prepare students to

become certified as a professional group instructor. Topics include principles and methods of exercise leadership, exercise programming and participation, leadership instruction, teaching methods, technique evaluation, and legal and professional responsibilities associated with various types of group exercise programs. A practicum experience is required to provide on-site practice and participation. Lecture 2 hours. Prerequisite: HPET 2323.

**3373 RECREATION FOR SPECIAL POPULATIONS 3 credit hours** Planning and programming recreational activities and leisure-related experiences for individuals who have special impairments, such as chronic illness or physical, mental, emotional or social disability. Lecture 2 hours, laboratory 2 hours. Prerequisite: HPET 2323.

**3383 PHYSICAL EDUCATION IN THE SECONDARY SCHOOL 3 credit hours** A course designed to prepare students to become effective teachers through the practice of planning, managing, implementing and evaluation of the teaching learning process at the secondary level. Includes Field Experience component. Lecture 3 hours. Prerequisite: HPET 2323.

**4003 ADMINISTRATION OF SPORT/ACTIVITY PROGRAMS 3 credit hours** A study of the theory and practice of the administration of physical activity and sport programs. Included are current trends, concepts and applications of effective programming and administration of programs in various settings. Field component required. Lecture 3 hours. Prerequisite: Junior standing.

**4203 MOTOR LEARNING 3 credit hours** 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 3293.

**4213 LEGAL ASPECTS IN SPORT AND PHYSICAL ACTIVITY 3 credit hours** A course designed to develop an understanding of legal principles, proceedings and issues relevant to a variety of sport settings. Lecture 3 hours. Prerequisite: Junior standing.

**4224 CAPSTONE EXPERIENCE: SPORT/FITNESS MANAGEMENT 4 credit hours** This senior-level class is designed to be the capstone of curricular requirements for the Sport/Fitness Management degree. Students will complete senior-level assessment, resume, and networking requirements. A supervised field experience at an approved site offering management opportunities with emphasis on decision-making tasks and administrative procedures is required. Students will be under the supervision of the facility mentor and university supervisor. Capstone 4 hours. Prerequisites: Final semester of Senior year and permission of Chair.

**4313 RESEARCH METHODS FOR SPORTS AND EXERCISE SCIENCE 3 credit hours** This course is designed to provide an understanding of the processes and methods of research in sports and exercise science. Lecture 3 hours. Prerequisite: Junior standing.

**4773 METHODS OF TEACHING PHYSICAL EDUCATION 3 credit hours** Problems and methods in the teaching of Physical Education. Additionally requires field component in the public schools. Lecture 3 hours. Prerequisite: HPET 3333 and HPET 3383.

**4781-4 SPECIAL STUDIES 1-4 credit hours** 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. Independent study/directed readings

1–4 hours. Prerequisites: Junior standing and department permission.

### **PHYSICAL EDUCATION ACTIVITY (PE)**

**1001 AEROBICS** *1 credit hour* A scientific, systematic approach to pulmonary, cardiovascular conditioning and training. Fitness classifications will be determined, and an appropriate individual exercise program will be selected. Physical education activity/laboratory 2 hours. Prerequisite: Physician's examination or approval. General Education, Health and Wellness.

**1021 TEAM SPORTS** *1 credit hour* 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. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1081 PHYSICAL EDUCATION ACTIVITY** *1 credit hour* Individual and group activities for general physical improvement. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1091 TOTAL FITNESS** *1 credit hour* Low impact exercise that combines strength and cardiovascular conditioning to improve posture and reshape the body. Activities include weightlifting, swimming, videos, and fitness testing. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1101 BEGINNING SWIMMING** *1 credit hour* 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. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1111 WATER EXERCISE** *1 credit hour* Low impact aerobic exercise that emphasizes use of weight belts, flotation restraints, water weights, or body weight to improve muscle tone, bone strength, joint flexibility, and overall cardiovascular function. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1161 RECREATIONAL BASKETBALL** *1 credit hour* Fundamentals and techniques of basketball. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1171 VOLLEYBALL** *1 credit hour* Fundamentals and techniques of volleyball. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1181 RACQUET SPORTS** *1 credit hour* Fundamentals and techniques of badminton, racquetball, and tennis. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1231 WALKING AND JOGGING I** *1 credit hour* Light to moderate activity designed to improve muscle tone and the cardiovascular system through a planned program of fitness walking and/or jogging. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1241 WALKING AND JOGGING II** *1 credit hour* Vigorous activity designed to improve muscle tone and the cardiovascular system through a planned program of fitness walking and/or jogging. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1271 WEIGHT TRAINING** *1 credit hour* Fundamental skills and basic knowledge for weight training. Physical education

activity/laboratory 2 hours. General Education, Health and Wellness.

**1281 FUNDAMENTALS OF FISHING** *1 credit hour* Development of skills in executing different techniques of fishing. Fundamentals used in selection of rod, reel, and lures. Safety and strategy for fishing. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1301 KETTLEBELL** *1 credit hour* Cardiovascular, strength, and flexibility training using kettlebell equipment to perform static, dynamic, and ballistic exercises. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1311 STEP AEROBICS I** *1 credit hour* Low impact exercise that emphasizes major muscle groups, cardiac risk profile, proper form and technique, core strength, and cardiovascular endurance. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1321 STEP AEROBICS II** *1 credit hour* Low to medium impact exercise that emphasizes major muscle groups, cardiac risk profile, proper form and technique, core strength, and cardiovascular endurance. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1331 STEP CIRCUIT** *1 credit hour* High energy circuit training workout designed to keep the body moving while emphasizing core strength, muscle tone and endurance, and cardiovascular. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1341 BODY PUMP** *1 credit hour* Exercise that strengthens the entire body by challenging all major muscle groups through the use of barbells and/or own body weight. Physical education activity/laboratory 2 hours.

**1351 BODY FLOW** *1 credit hour* Low-impact exercise using a combination of Tai Chi, Yoga, and Pilates to achieve increase flexibility, muscular strength, and core breath strength. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1361 SPIN** *1 credit hour* High energy stationary bike workout designed to enhance cardiovascular endurance and muscular strength. Participants select personal intensity levels during the workout through body position and bike tension. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1371 BOXAEROBICS** *1 credit hour* Exercise with a combination of martial arts and aerobic techniques for the benefit of physical fitness. Activities include: jumping rope, push-ups, abdominal training, cardiovascular exercise, strength training and toning, box aerobics, and stretching. Laboratory 2 hours. General Education, Health and Wellness.

**1381 CARDIO KICKBOXING** *1 credit hour* Fundamentals of basic boxing skills and terminology combined with cardiovascular activity. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1391 KUNG FU** *1 credit hour* Fundamentals of kung fu emphasizing basic kicks, basic forms of self-defense, breathing techniques, and proper stretching methods to enhance flexibility, core strength and endurance. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1401 TAI CHI** *1 credit hour* An approach to mental relaxation and physical fitness that concentrates on correct posture, breathing control and core strength. Tai Chi's movements are

fluid, graceful, and well balanced, promoting the complete harmony of body and mind. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1411 YOGA/PILATES** *1 credit hour* Combination of “body and mind” disciplines using core strength, flexibility, stretching, and body mechanics to expand conscious awareness through movement. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1421 BEGINNING YOGA** *1 credit hour* This course provides a foundation for exploring basic yoga poses. The course includes opportunities to practice meditation and breathing techniques to reduce stress and enhance physical, emotional and spiritual well-being. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1431 ADVANCED YOGA** *1 credit hour* This course reviews the basics of yoga while integrating more challenging poses that link movement of the body with breathing techniques to soothe body and mind. Physical education activity/laboratory 2 hours. Prerequisite: PE 1261 or PE 1411 or PE 1421. General Education, Health and Wellness.

**1441 WEIGHT LOSS YOGA** *1 credit hour* This course explores the benefits of yoga in the area of weight loss. Students will learn how to do yoga poses, breathing exercises and meditation techniques that can encourage weight loss and/or can help participants to maintain a healthy weight. Discussion of current eating trends, health problems and psychological barriers associated with eating healthy will be examined. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1501 BALLROOM DANCE I** *1 credit hour* Fundamentals of skills in executing different techniques of ballroom dancing. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1511 BALLROOM DANCE II** *1 credit hour* Fundamentals of skills in executing advanced techniques of ballroom dancing. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1521 COUNTRY SWING** *1 credit hour* Introduction to swing dancing using fundamental skills to execute rhythmic dances in social settings to include exposure to several genres of music, dance terminology, and a brief history of dance. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1531 LINE DANCING** *1 credit hour* Introduction to line dancing using fundamental skills to execute rhythmic dances in social settings to include exposure to several genres of music, dance terminology, and a brief history of dance. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1601 INTRODUCTION TO HIKING** *1 credit hour* Individual and group activities for general physical improvement combined with acquiring hiking skills and information pertinent to hiking. Course involves easy to moderate trail walking, minimal boulder hopping and some bushwhacking. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**1611 HIKING/BOULDERING** *1 credit hour* Individual and group activities for general physical improvement combined with acquiring hiking and bouldering skills and information pertinent to hiking and bouldering. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2001 ELEMENTARY GOLF** *1 credit hour* Fundamentals and techniques of beginning golf. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2011 ELEMENTARY BOWLING** *1 credit hour* Teaching of fundamentals and techniques of bowling. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2021 ADVANCED BOWLING** *1 credit hour* Advanced into teams and league bowling. Physical education activity/laboratory 2 hours. Prerequisite: PE 2011. General Education, Health and Wellness.

**2031 ELEMENTARY TENNIS** *1 credit hour* Fundamentals and techniques of tennis. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2051 EXERGAMING** *1 credit hour* Exergames are videogames that require player exertion. Students will survey exergames across a variety of systems to be physically active. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2061 RIFLERY** *1 credit hour* Safety and marksmanship. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2101 ARCHERY** *1 credit hour* Men and/or women basic fundamentals of shooting a bow and arrow, terminology, correct selection and care of equipment, safety procedures and etiquette. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2121 SELF-DEFENSE** *1 credit hour* Study and development of skills and fundamental knowledge in the art of self-defense through scientific principles of body control over opposing forces. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

**2181 RECREATION ACTIVITIES** *1 credit hour* Participation in outdoor and indoor recreational activities. Physical education activity/laboratory 2 hours. General Education, Health and Wellness.

\*Liberal arts and sciences course

## SCHOOL OF ARTS AND SCIENCES

Von Underwood–Dean

DEPARTMENT OF AGRICULTURE, BIOLOGY, AND  
HEALTH SCIENCES  
Terry Conley–Chair

DEPARTMENT OF ART, MUSIC, AND THEATRE ARTS  
Scott Richard Klein–Chair

DEPARTMENT OF CHEMISTRY, PHYSICS, AND  
ENGINEERING  
Danny McGuire–Chair

DEPARTMENT OF COMMUNICATION  
Christopher Keller–Chair

DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES  
John Hodgson–Chair

DEPARTMENT OF MATHEMATICAL SCIENCES  
Narayan Thapa–Chair

DEPARTMENT OF MILITARY SCIENCE  
MAJ Seth Hall–Chair

The mission of the [School of Arts and Sciences](#) is to offer quality associate and baccalaureate programs in the fine arts, humanities, and sciences. The School also plays an important role in general education. In our programs and course offerings, the School of Arts and Sciences fosters a student-centered academic environment, in keeping with the mission of the University, and is dedicated to guiding students to the highest possible standard of achievement.

The School of Arts and Sciences also actively seeks to make the University a driving force in the cultural life and economic development of the region by encouraging faculty scholarship, developing partnerships with the community, and producing concerts, recitals, theatre productions, art exhibitions, lectures, symposia, workshops, camps, and public forums which enrich the intellectual and cultural lives of our constituents.

## DEPARTMENT OF AGRICULTURE, BIOLOGY, AND HEALTH SCIENCES

Chair–Terry Conley, Professor  
Professors: Dodd, Dunn, Husak  
Assistant Professors: R. Gaines, Lee, Roeder, Van Sant  
Instructors: L. Gaines, Schoolfield, Walls

The [Department of Agriculture, Biology and Health Sciences](#) offers a wide range of baccalaureate and associate degrees in undergraduate programs that prepare students for immediate entry into the workforce, as well as preparation for pursuing the graduate degrees that are required by many careers in advanced professions. The department offers an Associate in Applied Science degree in *radiologic technology*, an Associate in Applied Science Degree in *respiratory care*, and an Associate of Science degree in *allied health sciences*. In addition, the department offers a Bachelor of Science Degree in *biology* and a Bachelor of Science Degree in *agriculture*.

### ASSOCIATE IN APPLIED SCIENCE DEGREE MAJOR IN RADIOLOGIC TECHNOLOGY (585)

- I. GENERAL EDUCATION REQUIREMENTS (19 hours)  
BIOL 1214/1214L, COMM 1113, ENGL 1113, HIST 1483 or HIST 1493, MATH 1513, PS 1113
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. TECHNICAL-OCCUPATIONAL SUPPORT COURSES (7 hours)  
BIOL 2013, BIOL 2034
- IV. TECHNICAL-OCCUPATIONAL SPECIALTY COURSES (54 hours)  
RAD 2013, RAD 2113, RAD 2123, RAD 2133, RAD 2204, RAD 2214, RAD 2224, RAD 2302, RAD 2311, RAD 2323, RAD 2402, RAD 2414, RAD 2423, RAD 2433, RAD 2503, RAD 2513, RAD 2523, RAD 2533
- V. ELECTIVES TO TOTAL 81 HOURS REQUIRED FOR GRADUATION

### ASSOCIATE IN APPLIED SCIENCE DEGREE MAJOR IN RESPIRATORY CARE (575)

- I. GENERAL EDUCATION REQUIREMENTS (25 hours)  
COMM 1113, ENGL 1113, CHEM 1004, MATH 1513, PSY 1113, HIST 1483 or HIST 1493, FNAR 1013, PS 1113
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. SUPPORT COURSE REQUIREMENTS (5 hours) BIOL 1012, BIOL 2013
- IV. RESPIRATORY CARE COURSES (37 hours) RESP 2100, RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, RESP 2161, RESP 2200, RESP 2213, RESP 2224, RESP 2233, RESP 2242, RESP 2253, RESP 2313, RESP 2324
- V. ELECTIVES TO TOTAL 68 HOURS REQUIRED FOR GRADUATION

**ASSOCIATE IN SCIENCE DEGREE****MAJOR IN ALLIED HEALTH SCIENCES (565)**

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires specific General Education courses in Mathematics (MATH 1513), Biological Science (BIOL 1214), Physical Science (CHEM 1361 and 1364 (preferred), and Behavioral Science (PSY 1113).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (23-24 hours)**
  - A. Required Courses (11 hours)** AHS 1003, BIOL 2034, BIOL 2134
  - B. Additional Requirements (12-13 hours)** Select from the following classes; consult advisor and appropriate catalogs: BIOL 2013, BIOL 2124, HLTH 1063, HLTH 2213, PSY 3353, STAT 1513, Approved elective (3 hours)
- IV. ELECTIVES TO TOTAL 68-71 HOURS REQUIRED FOR GRADUATION**

**BACHELOR OF SCIENCE DEGREE****MAJOR IN BIOLOGY (310)**

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires specific General Education courses in Mathematics (MATH 1513 or higher), Biological Science (BIOL 1364), and Physical Science (CHEM 1361 and 1364).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (46 hours)**
  - A. Required Core Courses (26 hours)** BIOL 1364, BIOL 1474, BIOL 2124, BIOL 2144, BIOL 2154, BIOL 2881, BIOL 3014, and BIOL 4901
  - B. Concentration (20 hours)**  
Choose one of the following:
    - Organismal Biology Concentration**  
*Required Courses (7 hours)* BIOL 3043 and BIOL 3064  
*Electives (13 hours) Category A (Minimum 1 course):* BIOL 3054, BIOL 3074, BIOL 3084, BIOL 3114, BIOL 4054, BIOL 4064, BIOL 4153, BIOL 4121-4 (Maximum 4 hours of upper level credit); *Category B (Minimum 1 course):* BIOL 2034, BIOL 3093, BIOL 3104, BIOL 3174, BIOL 4004, BIOL 4114, BIOL 4163
    - Cell and Molecular Concentration**  
*Required Courses (8 hours)* BIOL 3174 and BIOL 4174  
*Electives (12 hours) Category A (Minimum 2 courses):* BIOL 2134 or 4004, BIOL 3093, BIOL 3124, BIOL 4114; *Category B (Minimum 1 course):* BIOL 2034 or BIOL 3104, BIOL 3034, BIOL 3043, BIOL 4121-4 (Maximum 4 hours of upper level credit); BIOL 4153
    - Medical Laboratory Science Concentration**  
*Required Courses (45 hours) Biology courses (15 hours):* BIOL 3174, BIOL 4174, BIOL 2134 or 4004, BIOL 3093; *Medical Laboratory Science courses\*:* MLS 4117, MLS 4125, MLS 4236, MLS 4246, MLS 4325, MLS 4351  
(\*Acceptance into an approved Oklahoma Consortium of Clinical Laboratory Science Affiliates (OCCSLSA) clinical training program and departmental permission is required.)
- IV. MINOR (CHEMISTRY) REQUIREMENTS (18 hours)**

CHEM 1364 and 1361, CHEM 1474 and 1471, CHEM 3314, CHEM 3324

If minor is not Chemistry, more than 124 hours will be required to graduate.

- V. ADDITIONAL REQUIREMENTS (16-22 hours)**  
MATH 1613 or higher; PHYS 1115 or 2015; PHYS 1215 or 2025; MIS 2113; CHEM 4403\* and CHEM 4413\* (\*Cell and Molecular concentration only.)
- VI. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

**BACHELOR OF SCIENCE DEGREE****MAJOR IN AGRICULTURE (400)**

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires a specific General Education course in Economics (AGRC 1334).
  - II. UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
  - III. MAJOR REQUIREMENTS (44-71 hours)**
    - A. Required Core Courses (30 hours)** AGRC 2423, AGRC 4572, AGRC 1124, AGRC 1214, AGRC 1334, AGRC 2124, ENSC 2004, ESCI 1135
    - B. Recommended Support Courses (18-21 hours)**  
CHEM 1364/1361, CHEM 1474/1471\*, CHEM 3314 and 3324, STAT 2013  
\*Required for CHEM 3113, CHEM 3334, CHEM 3314, CHEM 3324
    - C. Concentrations and Options**  
Majors must select from one of the following concentrations or options:
      - Animal Science Concentration (18 hours)**  
*Required Course (4 hours)* AGRC 1124  
*Electives (14 hours)* Choose 14 hours from the following: ANIM 3102, ANIM 3112, ANIM 3133, ANIM 3653, ANIM 4113, ANIM 4123, ANIM 4133, ANIM 4333, ANIM 4423, ANIM 4434, other courses approved by the Chair.
      - Agronomy Concentration (22 hours)**  
*Required Courses (8 hours)* AGRC 1214 and AGRC 2124  
*Electives (14 hours)* Choose 14 hours from the following: AGRN 3213, AGRN 3312, AGRN 3434, AGRN 3513, AGRN 3683, AGRN 4123, AGRN 4223, AGRN 4234, AGRN 4673, other courses approved by the Chair.
      - Agric Business Mgmt Option\* (49-53 hours)**  
*Animal Sci or Agron Conc Courses (18 or 22 hours)*  
*Required Courses (22 hours)* AGRC 1334, AGRC 3303, AGRC 3413, ACCT 2013, BUS 3213, MGMT 3013, MKTG 3413  
*Electives (9 hours)* Choose 9 hours from the following: FIN 3313, FIN 3603, FIN 3623, MKTG 3433, MKTG 3533, other courses approved by the Chair.
      - Environmental Science Option\* (41 hours)**  
*Required Courses (22 hours)* AGRC 1214, AGRC 2124, ENSC 2004, CHEM 1364/1361, CHEM 1474/1471  
*Electives (19 hours)* Choose 19 hours from the following: AGRN 3434, AGRN 3683, AGRN 4223, BIOL 2124, CHEM 3113, CHEM 3334, other courses approved by the Chair.
- \*No minor is required for either the Agriculture Business Management or the Environmental Science option.

**IV. MINOR REQUIREMENTS (18 hours)****V. ELECTIVES TO COMPLETE 124 SEMESTER HOURS REQUIRED FOR GRADUATION****COURSE DESCRIPTIONS**  
**AGRICULTURE (AGRC)**

**1123 LIVESTOCK FEEDING** *3 credit hours* 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 credit hours* 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. Co-requisite: AGRC 1124L.

**1124L INTRODUCTION TO ANIMAL SCIENCE LAB** *0 credit hours* LAB: 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. Co-requisite: AGRC 1124.

**1214 INTRODUCTION TO PLANT SCIENCE** *4 credit hours* Factors determining growth, distribution, culture, improvement and utilization of economic plants. Lecture 3 hours, laboratory 2 hours. Co-requisite: AGRC 1214L.

**1214L INTRODUCTION TO PLANT SCIENCE LAB** *0 credit hours* LAB: Factors determining growth, distribution, culture, improvement and utilization of economic plants. Lecture 3 hours, laboratory 2 hours. Co-requisite: AGRC 1214.

**1334\* INTRODUCTION TO AGRICULTURE ECONOMICS** *4 credit hours* A study of economic principles as they relate to the national economy, production, marketing and consumption of agricultural products. Lecture 4 hours. General Education, Economics.

**2124\* FUNDAMENTALS OF SOIL SCIENCE** *4 credit hours* A general course dealing with the origin, chemical, physical, and biological properties of soils in relation to plant growth, engineering and environmental uses. Lecture 3 hours, laboratory 2 hours. Prerequisite: CHEM 1004 or equivalent. Co-requisite: AGRC 2124L.

**2124L\* FUNDAMENTALS OF SOIL SCIENCE LAB** *0 credit hours* LAB: A general course dealing with the origin, chemical, physical, and biological properties of soils in relation to plant growth, engineering and environmental uses. Lecture 3 hours, laboratory 2 hours. Prerequisite: CHEM 1004 or equivalent. Co-requisite: AGRC 2124.

**2423 COMPUTERS IN AGRICULTURE** *3 credit hours* 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. Co-requisite: AGRC 2423L.

**2423L COMPUTERS IN AGRICULTURE LAB** *0 credit hours* LAB: 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. Co-requisite: AGRC 2423.

**3303 PRINCIPLES OF AGRICULTURAL MARKETING** *3 credit hours* Analysis of the marketing system; its importance to the economy and the role of the individual firm. Understanding of basic concepts, problems, and decision aids is emphasized. Lecture 3 hours. Prerequisite: AGRC 1334.

**3413 FARM AND RANCH MANAGEMENT** *3 credit hours* Production planning with budgeting, market planning, financial records, and income tax management for the individual farm-ranch business. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 1334. Co-requisite: AGRC 3413L.

**3413L FARM AND RANCH MANAGEMENT LAB** *0 credit hours* LAB: Production planning with budgeting, market planning, financial records, and income tax management for the individual farm-ranch business. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 1334. Co-requisite: AGRC 3413.

**4321-4 SPECIAL STUDIES IN AGRICULTURE** *1-4 credit hours* Independent study based on the review of literature, laboratory problems, or field investigations. Independent study 1-4 hours.

**4571-2 AGRICULTURAL SEMINAR** *1-2 credit hours* Review and discussion of current research papers, research work and problems in agriculture. Lecture 2 hours. Prerequisite: Senior standing

**AGRONOMY (AGRN)**

**3213 FORAGE, RANGE, AND PASTURE CROPS** *3 credit hours* Principles of production management, utilization, and improvement of forages for livestock. Lecture 3 hours. Prerequisites: AGRC 1214.

**3312 CROP SCIENCE LABORATORY** *2 credit hours* LAB: 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 AGRN 3213, AGRN 3513, AGRN 4123, or AGRN 4673.

**3434\* SOIL MORPHOLOGY, GENESIS, AND CLASSIFICATION** *4 credit hours* Taxonomy of Soils. A study of the internal differentiating characteristics of soils and their causal processes; the U. S. comprehensive system of soil classification; soil survey techniques. Lecture 3 hours, laboratory 2 hours. Prerequisites: AGRC 2124. Co-requisite: AGRN 3434L.

**3434L\* SOIL MORPHOLOGY, GENESIS, AND CLASSIFICATION LAB** *0 credit hours* LAB: Taxonomy of Soils. A study of the internal differentiating characteristics of soils and their causal processes; the U. S. comprehensive system of soil classification; soil survey techniques. Lecture 3 hours, laboratory 2 hours. Prerequisites: AGRC 2124. Co-requisite: AGRN 3434.

**3513 FIBER AND OILSEED CROPS** *3 credit hours* Principles of Fiber and oilseed crop production, distribution, classification, and improvement. Lecture 3 hours. Prerequisites: AGRC 1214.

**3683 SOIL PHYSICAL PROPERTIES, MANAGEMENT, AND CONSERVATION** *3 credit hours* Identification, description, maintenance and management of soil physical properties. Management and conservation of soil resources. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 2124. Co-requisite: AGRN 3683L.

**3683L SOIL PHYSICAL PROPERTIES, MANAGEMENT, AND CONSERVATION LAB** *0 credit hours* LAB: Identification, description, maintenance and management of soil physical properties. Management and conservation of soil resources. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 2124. Co-requisite: AGRN 3683.

**4103 PRECISION AGRICULTURE** 3 credit hours A course designed for students who desire to understand the acquisition and analysis of geographically referenced data for the management of crop production systems. Topic include: mapping, map projections, implementation of global positioning systems, data formats, geographic information systems, grid sampling, soil fertility and physical properties, yield monitoring, variable-rate application, crop modeling and economics. Lecture 3 hours.

**4123\* PRINCIPLES OF PLANT PHYSIOLOGY** 3 credit hours Functions, nutrition, metabolism, and development of higher plants, including water relations, photosynthesis, respiration and growth. Lecture 3 hours. Prerequisite: AGRC 1214 or BIOL 1114.

**4223 PESTICIDES** 3 credit hours Identification, distribution, characteristics, and methods of controlling pests. Lecture 3 hours. Prerequisites: CHEM 1004 and AGRC 1214.

**4234\* SOIL FERTILITY AND MANAGEMENT** 4 credit hours Mineral nutrition of plants grown in soil. Soil forms of elements essential for plant growth, factors affecting their availability to higher plants, and their chemical/biological transformations in the soil. Evaluation of soil fertility; fertilizer manufacture and use. Lecture 3 hours, laboratory 2 hours. Prerequisites: AGRC 2124. Co-requisite: AGRN 4234.

**4234L\* SOIL FERTILITY AND MANAGEMENT LAB** 0 credit hours LAB: Mineral nutrition of plants grown in soil. Soil forms of elements essential for plant growth, factors affecting their availability to higher plants, and their chemical/biological transformations in the soil. Evaluation of soil fertility; fertilizer manufacture and use. Lecture 3 hours, laboratory 2 hours. Prerequisites: AGRC 2124. Co-requisite: AGRN 4234.

**4673 GRAIN CROPS** 3 credit hours Principles of grain crop production, classification, and improvement. Lecture 3 hours. Prerequisites: AGRC 1214.

### **ALLIED HEALTH SCIENCES (AHS)**

**1003 INTRODUCTION TO PUBLIC HEALTH** 3 credit hours Introduction to Public Health introduces the major concepts and principles of public health and the options for intervention to promote health and prevent disease. It is not applicable to the Biology major or minor. Lecture 3 hours. Prerequisites: Must be MATH 1513 eligible.

### **ANIMAL SCIENCE (ANIM)**

**3102 LIVESTOCK EVALUATION** 2 credit hours Instruction in selection, evaluating, fitting, showing, and judging of livestock. Laboratory 4 hours.

**3112 ADVANCED LIVESTOCK EVALUATION** 2 credit hours This course is a continuation of ANIM 3102. Laboratory 4 hours. Prerequisite: ANIM 3102.

**3133 BREEDS OF LIVESTOCK** 3 credit hours Study of the origin, history, development and characteristics of livestock breeds and of the specific purposes of each breed. Lecture 3 hours. Prerequisite: AGRC 1124.

**3143 EQUINE SCIENCE** 3 credit hours Scientific principles of equine anatomy, physiology, genetics, reproduction, breeding, nutrition, and health; current management practices based on these principles. Overview of the equine industry including career choices. Lecture 3 hours.

**3653 APPLIED NUTRITION** 3 credit hours Basic principles of animal nutrition including composition, characteristics, digestion, absorption, and metabolism of various feedstuffs and ration additives, qualitative and quantitative nutrient requirements of each of the classes of livestock, formulation of

rations for each of the classes of livestock. Lecture 2 hours, laboratory 2 hours. Prerequisites: AGRC 1124 and CHEM 1364/1361. Co-requisite: ANIM 3653L.

**3653L APPLIED NUTRITION LAB** 0 credit hours LAB: Basic principles of animal nutrition including composition, characteristics, digestion, absorption, and metabolism of various feedstuffs and ration additives, qualitative and quantitative nutrient requirements of each of the classes of livestock, formulation of rations for each of the classes of livestock. Lecture 2 hours, laboratory 2 hours. Prerequisites: AGRC 1124 and CHEM 1364/1361. Co-requisite: ANIM 3653.

**4113 BEEF CATTLE SCIENCE** 3 credit hours Application of scientific principles and recent advances to the production, feeding, breeding, management, and marketing of commercial and purebred cattle. Lecture 2 hours, laboratory 2 hours. Prerequisites: ANIM 3653, 4434 and senior standing. Co-requisite: ANIM 4113L.

**4113L BEEF CATTLE SCIENCE LAB** 0 credit hours LAB: Application of scientific principles and recent advances to the production, feeding, breeding, management, and marketing of commercial and purebred cattle. Lecture 2 hours, laboratory 2 hours. Prerequisites: ANIM 3653, 4434 and senior standing. Co-requisite: ANIM 4113.

**4123 SWINE SCIENCE** 3 credit hours The application of genetics, physiological, nutritional and engineering principles to the efficient production of swine. Swine evaluation and marketing. Lecture 2 hours, laboratory 2 hours. Prerequisites ANIM 3653 and ANIM 4434. Co-requisite: ANIM 4123L.

**4123L SWINE SCIENCE LAB** 0 credit hours LAB: The application of genetics, physiological, nutritional and engineering principles to the efficient production of swine. Swine evaluation and marketing. Lecture 2 hours, laboratory 2 hours. Prerequisites ANIM 3653 and ANIM 4434. Co-requisite: ANIM 4123.

**4133 SHEEP SCIENCE** 3 credit hours Breeding, feeding, management, and marketing of commercial and purebred sheep. Lecture 2 hours, laboratory 2 hours. Prerequisites: ANIM 3653 and ANIM 4434. Co-requisite: ANIM 4133L.

**4133L SHEEP SCIENCE LAB** 0 credit hours LAB: Breeding, feeding, management, and marketing of commercial and purebred sheep. Lecture 2 hours, laboratory 2 hours. Prerequisites: ANIM 3653 and ANIM 4434. Co-requisite: ANIM 4123.

**4333\* PHYSIOLOGY OF DOMESTIC ANIMALS** 3 credit hours The comparative physiology of digestion, circulation, production, reproduction and environment of farm animals. Lecture 3 hours. Prerequisites: CHEM 1004 and AGRC 1124.

**4423 LIVESTOCK DISEASES AND SANITATION** 3 credit hours The recognition and study of common diseases and parasitic infestations together with their prevention and control in domestic animals. Lecture 3 hours. Prerequisite: AGRC 1124.

**4434 ANIMAL REPRODUCTION** 4 credit hours Physiological processes of reproduction in farm animals, gonadal function, endocrine relationships, fertility, and factors affecting reproduction efficiency. Emphasis is given to principles of artificial insemination in the laboratory. Lecture 3 hours, laboratory 2 hours. Prerequisite: AGRC 1124. Co-requisite: ANIM 4434L.

**4434L ANIMAL REPRODUCTION LAB** 0 credit hours LAB: Physiological processes of reproduction in farm animals, gonadal function, endocrine relationships, fertility, and factors affecting reproduction efficiency. Emphasis is given to principles of artificial insemination in the laboratory. Lecture 3 hours,

laboratory 2 hours. Prerequisite: AGRC 1124. Co-requisite: ANIM 4434.

### **BIOLOGY (BIOL)**

**1004\* GENERAL BIOLOGY 4 credit hours** A life science laboratory course for non-science majors. Students should learn the principles of cell structure/function, genetics, evolution and organismal diversity, ecology, and the scientific method. Such principles will be applied in discussions of biotechnology, conservation of biodiversity and natural resources, human population growth, and global environmental changes. Not applicable to the Biology major or minor, Medical Technology major, or Allied Health Science major. Lecture 3 hours, laboratory 2 hours. Prerequisites: Student must be eligible to take MATH 1413 or higher. Co-requisite: BIOL 1004L. General Education Laboratory Science, Biological Science.

**1004L\* GENERAL BIOLOGY LAB 0 credit hours** LAB: A life science laboratory course for non-science majors. Students should learn the principles of cell structure/function, genetics, evolution and organismal diversity, ecology, and the scientific method. Such principles will be applied in discussions of biotechnology, conservation of biodiversity and natural resources, human population growth, and global environmental changes. Not applicable to the Biology major or minor, Medical Technology major, or Allied Health Science major. Lecture 3 hours, laboratory 2 hours. Prerequisites: Student must be eligible to take MATH 1413 or higher. Co-requisite: BIOL 1004. General Education Laboratory Science, Biological Science.

**1012 ESSENTIAL HUMAN ANATOMY & PHYSIOLOGY 2 credit hours** Introductory one-semester survey of the structure and function of the human body, with emphasis on internal organs. Strongly recommended for students requiring math/English remediation before taking BIOL 2034 and BIOL 2134. Does not fulfill pre-health-career requirements (pre-nursing, pre-physical therapy, etc.) except for respiratory care. Lecture 2 hours.

**1114\* PLANTS AND CULTURE 4 credit hours** A general education course that will explore the historical, social, and economic relationships between plants and people. Topics covered in class include a brief introduction to the plant kingdom and plant anatomy and morphology with more in depth coverage of human plant usage including foods, beverages, spices, fibers, and medicines. The lab portion of the course will in part involve hands-on production of plant products, and where appropriate (and legal) include sampling these products. Not applicable to biology major or minor or medical technology major. Lecture 3 hours, laboratory 2 hours. Co-requisite: BIOL 1114L. General Education Laboratory Science, Biological Science.

**1114L\* PLANTS AND CULTURE LAB 0 credit hours** LAB: A general education course that will explore the historical, social, and economic relationships between plants and people. Topics covered in class include a brief introduction to the plant kingdom and plant anatomy and morphology with more in depth coverage of human plant usage including foods, beverages, spices, fibers, and medicines. The lab portion of the course will in part involve hands-on production of plant products, and where appropriate (and legal) include sampling these products. Not applicable to biology major or minor or medical technology major. Lecture 3 hours, laboratory 2 hours. Co-requisite: BIOL 1114. General Education Laboratory Science, Biological Science.

**1214\* HUMAN BIOLOGY 4 credit hours** Human Biology is a general education science lab course that introduces the basic

concepts of biology, using humans and society as a focus. After establishing the molecular and cellular basis of life, the course describes and investigates the structure and function of the human body with an emphasis on homeostasis. It concludes with an examination of the principles of evolution and ecology, again focusing on human impact on the environment. It is not applicable to the Biology major or minor. Lecture 3 hours, laboratory 2 hours. Prerequisites: Student must be eligible to take MATH 1513. Co-requisite: BIOL 1214L. General Education Laboratory Science, Biological Science.

**1214L\* HUMAN BIOLOGY LAB 0 credit hours** LAB: Human Biology is a general education science lab course that introduces the basic concepts of biology, using humans and society as a focus. After establishing the molecular and cellular basis of life, the course describes and investigates the structure and function of the human body with an emphasis on homeostasis. It concludes with an examination of the principles of evolution and ecology, again focusing on human impact on the environment. It is not applicable to the Biology major or minor. Lecture 3 hours, laboratory 2 hours. Prerequisites: Student must be eligible to take MATH 1513. Co-requisite: BIOL 1214. General Education Laboratory Science, Biological Science.

**1364\* PRINCIPLES OF BIOLOGY I 4 credit hours** An introduction to the physical, chemical and biological principles associated with life from the subcellular to ecosystem level. Lecture 3 hours, laboratory 3 hours. Prerequisites: Student must be eligible to take MATH 1513. Co-requisite: BIOL 1364L. General Education Laboratory Science, Biological Science.

**1364L\* PRINCIPLES OF BIOLOGY I LAB 0 credit hours** LAB: An introduction to the physical, chemical and biological principles associated with life from the subcellular to ecosystem level. Lecture 3 hours, laboratory 3 hours. Prerequisites: Student must be eligible to take MATH 1513. Co-requisite: BIOL 1364. General Education Laboratory Science, Biological Science.

**1474\* PRINCIPLES OF BIOLOGY II 4 credit hours** A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364. Co-requisite: BIOL 1474L. Will not satisfy General Education science requirements.

**1474L\* PRINCIPLES OF BIOLOGY II LAB 0 credit hours** LAB: A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364. Co-requisite: BIOL 1474. Will not satisfy General Education science requirements.

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Biological Science courses at the 2000-, 3000-, or 4000-level **may not** be used to fulfill General Education science requirements.

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**2013 MEDICAL TERMINOLOGY 3 credit hours** An introduction to the prefixes, roots, and suffixes used to construct medical terms. A systems approach will be used to survey the basic anatomy and physiology of the human body, followed by selected terms defining the pathology, diagnostic procedures, and treatment procedures of each system. Emphasis will be on learning to pronounce, spell, and define all terms. Lecture 3 hours. Will not satisfy General Education science requirements.

**2034\* HUMAN ANATOMY 4 credit hours** Introductory anatomy with emphasis on histology and human gross anatomy. Includes cadaver dissection and study. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1004/1004L or 1214/1214L or 1364/1364L. Co-requisite: BIOL 2034L. Student must be eligible to take MATH 1513 or higher. Will not satisfy General Education science requirements.

**2034L\* HUMAN ANATOMY LAB 0 credit hours** LAB: Introductory anatomy with emphasis on histology and human

gross anatomy. Includes cadaver dissection and study. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1004/1004L or 1214/1214L or 1364/1364L. Co-requisite: BIOL 2034. Student must be eligible to take MATH 1513 or higher. Will not satisfy General Education science requirements.

**2121-2 SPECIAL STUDIES 1-2 credit hours** Selected topics in biology which may include lecture, laboratory and/or field trips. May be repeated for a maximum of 3 credit hours. Lecture 1-2 hours. Will not satisfy General Education science requirements.

**2124\* MICROBIOLOGY 4 credit hours** A survey of the principles and techniques of microbiology with emphasis on disease prevention and health maintenance. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1004/1004L or BIOL 1214/1214L or BIOL 1364/1364L or AGRC 1124 and AGRC 1214 and CHEM 1105 or CHEM 1364 and CHEM 1361, and MATH 1513 or higher. Co-requisite: BIOL 2124L. Will not satisfy General Education science requirements.

**2124L\* MICROBIOLOGY LAB 0 credit hours** LAB: A survey of the principles and techniques of microbiology with emphasis on disease prevention and health maintenance. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1004/1004L or BIOL 1214/1214L or BIOL 1364/1364L or AGRC 1124 and AGRC 1214 and CHEM 1105 or CHEM 1364 and CHEM 1361, and MATH 1513 or higher. Co-requisite: BIOL 2124. Will not satisfy General Education science requirements.

**2134\* HUMAN PHYSIOLOGY 4 credit hours** Emphasis is on concepts and principles that serve as a foundation for understanding human physiology. Laboratory experiences demonstrate physiological mechanisms and serve as a basis for understanding clinical applications of physiology. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHEM 1105 or CHEM 1364 and CHEM 1361, and MATH 1513 or higher, and BIOL 2034 or BIOL 1364 and BIOL 1474. Co-requisite: BIOL 2134L. Will not satisfy General Education science requirements.

**2134L\* HUMAN PHYSIOLOGY LAB 0 credit hours** LAB: Emphasis is on concepts and principles that serve as a foundation for understanding human physiology. Laboratory experiences demonstrate physiological mechanisms and serve as a basis for understanding clinical applications of physiology. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHEM 1105 or CHEM 1364 and CHEM 1361, and MATH 1513 or higher, and BIOL 2034 or BIOL 1364 and BIOL 1474. Co-requisite: BIOL 2134. Will not satisfy General Education science requirements.

**2144\* BOTANY 4 credit hours** A survey of the plant kingdom stressing structure, function, life histories, and ecology. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474 or AGRC 1124 and AGRC 1214. Co-requisite: BIOL 2144L. Will not satisfy General Education science requirements.

**2144L\* BOTANY LAB 0 credit hours** LAB: A survey of the plant kingdom stressing structure, function, life histories, and ecology. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474 or AGRC 1124 and AGRC 1214. Co-requisite: BIOL 2144. Will not satisfy General Education science requirements.

**2154\* ZOOLOGY 4 credit hours** 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 AGRC 1124 and AGRC 1214. Co-requisite: BIOL 2154L. Will not satisfy General Education science requirements.

**2154L\* ZOOLOGY LAB 0 credit hours** LAB: 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 AGRC 1124 and AGRC 1214. Co-requisite: BIOL 2154. Will not satisfy General Education science requirements.

**2881 BIOLOGY SEMINAR 1 credit hour** A general seminar course for biology majors. Seminar 1 hour. Prerequisite: 20 hours of biology core courses (BIOL 1364, BIOL 1474, BIOL 2124, BIOL 2144, BIOL 2154 or concurrent enrollment). Will not satisfy General Education science requirements.

**3012\* PRACTICUM IN HUMAN ANATOMY 2 credit hours** Students will serve as a teaching assistant for BIOL 2034L Human Anatomy Lab and will obtain additional dissection experience and anatomical knowledge beyond material covered in that course. Prerequisites: Grade of "A" or "B" in BIOL 2034 or BIOL 3104 and permission of instructor and department chair.

**3014\* GENETICS 4 credit hours** A general course in the cellular and molecular mechanisms of heredity. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474 or AGRC 1124 and AGRC 1214. Co-requisite: BIOL 3014L. Will not satisfy General Education science requirements.

**3014L\* GENETICS LAB 0 credit hours** LAB: A general course in the cellular and molecular mechanisms of heredity. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474 or AGRC 1124 and AGRC 1214. Co-requisite: BIOL 3014. Will not satisfy General Education science requirements.

**3034\* DEVELOPMENTAL BIOLOGY 4 credit hours** The development of the vertebrate body from gametogenesis through early organ formation. Primary emphasis on development of fish, frog, chick and pig. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2154 and BIOL 3014. Co-requisite: BIOL 3034L. Will not satisfy General Education science requirements.

**3034L\* DEVELOPMENTAL BIOLOGY LAB 0 credit hours** The development of the vertebrate body from gametogenesis through early organ formation. Primary emphasis on development of fish, frog, chick and pig. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2154 and BIOL 3014. Co-requisite: BIOL 3034. Will not satisfy General Education science requirements.

**3043\* EVOLUTION 3 credit hours** Historical development of evolutionary concepts, and current theories to account for speciation, evolutionary mechanisms, and phylogenetic relationships. Lecture 3 hours. Prerequisite: BIOL 2124 and BIOL 2144 or BIOL 2154. Will not satisfy General Education science requirements.

**3054\* PLANT TAXONOMY 4 credit hours** Classification of flowering plants with emphasis on the flora of the area. Lecture 3 hours, laboratory 3 hours, and field trips. Prerequisite: BIOL 2144. Co-requisite: BIOL 3054L. Will not satisfy General Education science requirements.

**3054L\* PLANT TAXONOMY LAB 0 credit hours** LAB: Classification of flowering plants with emphasis on the flora of the area. Lecture 3 hours, laboratory 3 hours, and field trips. Prerequisite: BIOL 2144. Co-requisite: BIOL 3054. Will not satisfy General Education science requirements.

**3064\* ECOLOGY 4 credit hours** General principles of biotic and abiotic interrelationships including sampling techniques,

productivity, energy flow, interspecific association and biomes. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2144 or BIOL 2154. Co-requisite: BIOL 3064L. Will not satisfy General Education science requirements.

**3064L\* ECOLOGY LAB 0 credit hours** LAB: General principles of biotic and abiotic interrelationships including sampling techniques, productivity, energy flow, interspecific association and biomes. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2144 or BIOL 2154. Co-requisite: BIOL 3064. Will not satisfy General Education science requirements.

**3074\* NATURAL HISTORY OF THE VERTEBRATES 4 credit hours** Ecology, taxonomy and life histories of vertebrates. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154. Co-requisite: BIOL 3074L. Will not satisfy General Education science requirements.

**3074L\* NATURAL HISTORY OF THE VERTEBRATES LAB 0 credit hours** LAB: Ecology, taxonomy and life histories of vertebrates. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154. Co-requisite: BIOL 3074. Will not satisfy General Education science requirements.

**3084\* ORNITHOLOGY 4 credit hours** Identification, ecology, distribution and population dynamics of birds, with emphasis on locally occurring species. Family and ordinal characters are stressed. Lecture 3 hours, laboratory 3 hours, field trips arranged. Prerequisite: BIOL 2154. Co-requisite: BIOL 3084L. Will not satisfy General Education science requirements.

**3084L\* ORNITHOLOGY LAB 0 credit hours** LAB: Identification, ecology, distribution and population dynamics of birds, with emphasis on locally occurring species. Family and ordinal characters are stressed. Lecture 3 hours, laboratory 3 hours, field trips arranged. Prerequisite: BIOL 2154. Co-requisite: BIOL 3084. Will not satisfy General Education science requirements.

**3093\* IMMUNOLOGY 3 credit hours** Nature and mechanisms of natural and acquired resistance including humeral and cellular immunity. Characteristics of antigens and antibodies and of their interaction; transplantation reactions and hypersensitivities. Lecture 3 hours. Prerequisite: BIOL 2124. Will not satisfy General Education science requirements.

**3104\* COMPARATIVE VERTEBRATE ANATOMY 4 credit hours** Functional morphology and evolution of organ systems in representative chordates. This course emphasizes biomechanics and environmental adaptation, and fulfills the needs of pre-professionals and biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154. Co-requisite: BIOL 3104L. Will not satisfy General Education science requirements.

**3104L\* COMPARATIVE VERTEBRATE ANATOMY LAB 0 credit hours** LAB: Functional morphology and evolution of organ systems in representative chordates. This course emphasizes biomechanics and environmental adaptation, and fulfills the needs of pre-professionals and biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154. Co-requisite: BIOL 3104. Will not satisfy General Education science requirements.

**3114\* MAMMALOLOGY 4 credit hours** Classification, life histories, and distribution of mammals. Methods of collection and preservation. Lecture 3 hours, laboratory 3 hours, field trips arranged. Prerequisite: BIOL 2154. Co-requisite: BIOL 3114L. Will not satisfy General Education science requirements.

**3114L\* MAMMALOLOGY LAB 0 credit hours** LAB: Classification, life histories, and distribution of mammals. Methods of collection and preservation. Lecture 3 hours, laboratory 3 hours, field trips arranged. Prerequisite: BIOL 2154. Co-requisite: BIOL 3114. Will not satisfy General Education science requirements.

**3124\* HISTOLOGY 4 credit hours** Structure of animals at tissue and organ levels with emphasis on recognition and function of mammalian tissues and organs. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2034 or BIOL 2154. Co-requisite: BIOL 3124L. Will not satisfy General Education science requirements.

**3124L\* HISTOLOGY LAB 0 credit hours** LAB: Structure of animals at tissue and organ levels with emphasis on recognition and function of mammalian tissues and organs. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2034 or BIOL 2154. Co-requisite: BIOL 3124. Will not satisfy General Education science requirements.

**3174\* MOLECULAR CELL BIOLOGY 4 credit hours** Structural and functional organization of cells in terms of their organelles, molecules, and control mechanisms. The cell cycle, cellular differentiation and cellular interactions are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124 and CHEM 3314 or concurrent enrollment. Co-requisite: BIOL 3174L. Will not satisfy General Education science requirements.

**3174L\* MOLECULAR CELL BIOLOGY LAB 0 credit hours** LAB: Structural and functional organization of cells in terms of their organelles, molecules, and control mechanisms. The cell cycle, cellular differentiation and cellular interactions are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124 and CHEM 3314 or concurrent enrollment. Co-requisite: BIOL 3174. Will not satisfy General Education science requirements.

**4004\* PHYSIOLOGY 4 credit hours** Homeostatic mechanisms of human organ systems are emphasized, including some aspects of comparative physiology. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474 and CHEM 3324 or concurrent enrollment. BIOL 3174 and CHEM 4403 are recommended. Co-requisite: BIOL 4004L. Will not satisfy General Education science requirements.

**4004L\* PHYSIOLOGY LAB 0 credit hours** LAB: Homeostatic mechanisms of human organ systems are emphasized, including some aspects of comparative physiology. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474 and CHEM 3324 or concurrent enrollment. BIOL 3174 and CHEM 4403 are recommended. Co-requisite: BIOL 4004. Will not satisfy General Education science requirements.

**4054\* VASCULAR PLANT MORPHOLOGY 4 credit hours** Morphology, evolution and ecology of vascular plants. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2144. Co-requisite: BIOL 4054L. Will not satisfy General Education science requirements.

**4054L\* VASCULAR PLANT MORPHOLOGY LAB 0 credit hours** LAB: Morphology, evolution and ecology of vascular plants. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2144. Co-requisite: BIOL 4054. Will not satisfy General Education science requirements.

**4064\* ADVANCED ECOLOGY 4 credit hours** 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. Co-requisite: BIOL 4064L. Will not satisfy General Education science requirements.

**4064L\* ADVANCED ECOLOGY LAB 0 credit hours** LAB: 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. Co-requisite: BIOL 4064. Will not satisfy General Education science requirements.

**4114\* ADVANCED MICROBIOLOGY 4 credit hours** This course will present a modern view of advanced topics in microbiology, such as advanced bacteriology, virology, and microbial genetics. This course is intended for biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124 and CHEM 3314. Co-requisite: BIOL 4114L. Will not satisfy General Education science requirements.

**4114L\* ADVANCED MICROBIOLOGY LAB 0 credit hours LAB:** This course will present a modern view of advanced topics in microbiology, such as advanced bacteriology, virology, and microbial genetics. This course is intended for biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124 and CHEM 3314. Co-requisite: BIOL 4114. Will not satisfy General Education science requirements.

**4121-4 SPECIAL STUDIES 1-4 credit hours** Term paper and/or oral examination required. Independent study/directed readings 1-4 hours. Prerequisite: department permission. Will not satisfy General Education science requirements.

**4153\* BIOMETRY 3 credit hours** 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. Prerequisites: Junior Biology Major or Department Permission. Will not satisfy General Education science requirements.

**4163\* PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS 3 credit hours** The chemical and cellular organization of higher plants including selected aspects of their metabolism, growth, responses to stress, and molecular biology. Lecture 3 hours. Prerequisite: BIOL 2144 and BIOL 3104 or Department permission. Will not satisfy General Education science requirements.

**4174\* CELL STRUCTURE AND FUNCTION 4 credit hours** Structural and functional organization of cells in terms of their organelles, molecules, and control mechanism. The cell cycle, cellular differentiation and cellular interactions are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014 or BIOL 3174 and CHEM 3324 or concurrent enrollment. CHEM 4413 is recommended. Co-requisites: BIOL 4174L. Will not satisfy General Education science requirements.

**4174L\* CELL STRUCTURE AND FUNCTION LAB 0 credit hours LAB:** Structural and functional organization of cells in terms of their organelles, molecules, and control mechanism. The cell cycle, cellular differentiation and cellular interactions are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014 or BIOL 3174 and CHEM 3324 or concurrent enrollment. CHEM 4413 is recommended. Co-requisites: BIOL 4174. Will not satisfy General Education science requirements.

**4901\* BIOLOGY CAPSTONE COURSE 1 credit hour** Required of all biology majors for graduation. Course serves to integrate the biology curriculum, enhance critical analysis skills, promote leadership and an appreciation of ethical and philosophical considerations, and hone modern communication skills. Program assessment is also a component. Capstone/lecture 1 hour. Prerequisites: BIOL 2881, senior standing in biology, and department permission. Will not satisfy General Education science requirements.

## **EARTH SCIENCE (ESCI)**

**1135\* EARTH SCIENCE 5 credit hours** A survey of earth and environmental sciences including topics selected from geology, meteorology, climatology, oceanography, and astronomy. Lecture 4 hours, laboratory 2 hours. General Education Laboratory Science, Physical Science. Co-requisite: ESCI 1135L.

**1135L\* EARTH SCIENCE LAB 0 credit hours LAB:** A survey of earth and environmental sciences including topics selected from geology, meteorology, climatology, oceanography, and astronomy. Lecture 4 hours, laboratory 2 hours. General Education Laboratory Science, Physical Science. Co-requisite: ESCI 1135.

## **ENVIRONMENTAL SCIENCE (ENSC)**

**2004\* INTRODUCTION TO ENVIRONMENTAL SCIENCE 4 credit hours** An introductory course that emphasizes the impacts of increasing human populations and resource consumption patterns on the world's atmosphere, soils, oceans, agricultural and native land based ecosystems, biological diversity, and the health and welfare of humans. Themes and means of sustainable development and uses of resources, environmental policy, and global change are repeated throughout the course. Lecture 4 hours. General Education, Biological Science.

**3103 PRINCIPLES OF WATER RESOURCES 3 credit hours** An introduction to the science and policy related to managing fresh water resources. Fundamental hydrologic processes, how the United States has managed water throughout history, and the environmental impact of water resources management. Lecture 3 hours. Will not satisfy General Education science requirements.

**3203 PRESCRIPTION BURNING AND GRAZING MANAGEMENT 3 credit hours** Applications of principles and recent advances in knowledge in fire ecology and in applications of prescription burning and livestock grazing to the sustainable management of rangelands. Field trips are required. Lecture 3 hours. Prerequisite: ENSC 2004, BIOL 1004/1004L, BIOL 1474/1474L or Department permission.

## **MEDICAL LABORATORY SCIENCE (MLS)**

**4117 CLINICAL MICROBIOLOGY 7 credit hours** The theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi and parasites. Includes isolation, identification, antimicrobial susceptibility testing, and medical significance. Department permission required. Lecture/laboratory 7 hours.

**4125 CLINICAL CHEMISTRY 5 credit hours** The theory and laboratory methodology of analytical biochemistry, clinical microscopy, routine and special procedures and medical significance. Department permission required. Lecture/laboratory 5 hours.

**4236 CLINICAL HEMATOLOGY 6 credit hours** Systematized study of disease and abnormal derivation, maturation and function, principles of homeostasis; methodology used in routine and special hematology studies; and correlation of hematological findings with physiological conditions. Department permission required. Lecture/ laboratory 6 hours.

**4246 CLINICAL IMMUNOLOGY 6 credit hours** The theory of immunologic responses and procedures used in serological determinations; the study of immunohematology, fundamentals of antigen-antibody reactions, blood groups and types, compatibility testing, blood components, and the laboratory methods used as they relate to the medical significance of immunology and infectious disease. Department permission required. Lecture/laboratory 6 hours.

**4325 CLINICAL CHEMISTRY II** *5 credit hours* The theory and laboratory methodology of analytical biochemistry, instrumentation, and lab mathematics, routine and special procedures and medical significance. Department permission required. Lecture/laboratory 5 hours.

**4351 TOPICS IN MEDICAL LAB SCIENCE** *1 credit hour* Principles and practices of the medical laboratory including basic management, special education methodology, and special projects in selected areas. Department permission required. Lecture/laboratory 1 hour.

### **RADIOLOGIC TECHNOLOGY (RAD)**

**2013 INTRODUCTION TO RADIOLOGIC SCIENCES AND HEALTH CARE** *3 credit hours* Content provides an overview of the foundations of radiography and the practitioner's role in health care delivery. Principles, practices and policies of health care organizations are examined and discussed in addition to the professional responsibilities of the radiographer and will include a lab component. Lecture 3 hours. Prerequisite: Acceptance into Radiologic Technology Program and departmental permission.

**2113 PATIENT CARE IN RADIOLOGIC SCIENCES** *3 credit hours* Content provides the concepts of optimal patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures during standard precautions. The role of the radiographer in patient education is identified and will include a lab component. Additionally, the course content provides a foundation in ethics and law related to the practice of medical imaging. An introduction to terminology, concepts and principles will be presented. Students will examine a variety of ethical and legal issues found in clinical practice. Lecture 3 hours. Prerequisite: Acceptance into Radiologic Technology Program and departmental permission.

**2123 RADIATION PHYSICS** *3 credit hours* Content establishes a basic knowledge of radiation production and characteristics of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. Additionally the course establishes a knowledge base in imaging equipment of radiographic, fluoroscopic and mobile equipment requirements and design. The content also provides a basic knowledge of quality control and will include a lab component. Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures within the corresponding semester. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement will be taught to ensure the well-being of the patient prior to, during, and following the radiologic procedure. Lecture 3 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission.

**2133 RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS I** *3 credit hours* Content provides the knowledge base necessary to perform standard imaging procedures and special studies within the corresponding semester. Consideration is given to the

evaluation of optimal diagnostic images. Content provides a basis for analyzing radiographic images. Included are the importance of optimal imaging standards, discussion of a problem-solving technique for image evaluation and the factors than can affect image quality. Actual images will be included for analysis. Additionally this course establishes a knowledge base in radiography anatomy and physiology taught within the semester and will include a lab component. Components of the cells, tissues, organs and body systems are described and discussed. The fundamentals of sectional anatomy relative to routine radiography are addressed. Lecture 3 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission.

**2204 CLINICAL PRACTICE I** *4 credit hours* Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures within the corresponding semester. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement will be taught to ensure the well-being of the patient prior to, during, and following the radiologic procedure. Lecture 3 hours, laboratory 2 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2214 PRINCIPLES OF EXPOSURE** *4 credit hours* Content establishes a knowledge base in technical factors that govern the image production process and will include a lab component. Lecture 3 hours, laboratory 2 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2224 RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS II** *4 credit hours* Content provides the knowledge base necessary to perform standard imaging procedures and special studies within the corresponding semester. Consideration is given to the evaluation of optimal diagnostic images. Content provides a basis for analyzing radiographic images. Included are the importance of optimal imaging standards, discussion of a problem-solving technique for image evaluation and the factors than can affect image quality. Actual images will be included for analysis. Additionally this course establishes a knowledge base in radiography anatomy and physiology taught within the semester and will include a lab component. Components of the cells, tissues, organs and body systems are described and discussed. The fundamentals of sectional anatomy relative to routine radiography are addressed. Lecture 3 hours, laboratory 2 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission.

**2302 CLINICAL PRACTICE II** *2 credit hours* Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures within the corresponding semester. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Clinical practice experiences are designed to provide patient care and assessment, competent performance of

radiologic imaging and total quality management. Levels of competency and outcomes measurement will be taught to ensure the well-being of the patient prior to, during, and following the radiologic procedure. Lecture 2 hours, laboratory 1 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2311 BASIC PRINCIPLES OF COMPUTED TOMOGRAPHY 1 credit hour** Content is designed to provide entry-level radiography students or radiologic technologists with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency, but when available, radiography programs with sufficient local resources will do their best to provide students with clinical exposure to computed tomography. Lecture 1 hour. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2323 RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS III 3 credit hours** Content provides the knowledge base necessary to perform standard imaging procedures and special studies within the corresponding semester. Consideration is given to the evaluation of optimal diagnostic images. Content provides a basis for analyzing radiographic images. Included are the importance of optimal imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis. Additionally this course establishes a knowledge base in radiography anatomy and physiology taught within the semester and will include a lab component. Components of the cells, tissues, organs and body systems are described and discussed. The fundamentals of sectional anatomy relative to routine radiography are addressed. Lecture 2 hours, laboratory 2 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission.

**2402 RADIOGRAPHIC PATHOLOGY 2 credit hours** Content introduces concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Lecture 2 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission.

**2414 CLINICAL PRACTICE III 4 credit hours** Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures within the corresponding semester. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement will be taught to ensure the well-being of the patient prior to, during, and following the radiologic procedure. Lecture 3 hours, laboratory 2 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2423 DIGITAL IMAGE ACQUISITION AND DISPLAY 3 credit hours** Content imparts and understanding of the components, principles, and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval are discussed. Principles of digital system quality assurance and maintenance are presented.

Lecture 3 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2433 RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS IV 3 credit hours** Content provides the knowledge base necessary to perform standard imaging procedures and special studies within the corresponding semester. Consideration is given to the evaluation of optimal diagnostic images. Content provides a basis for analyzing radiographic images. Included are the importance of optimal imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis. Additionally this course establishes a knowledge base in radiography anatomy and physiology taught within the semester and will include a lab component. Components of the cells, tissues, organs and body systems are described and discussed. The fundamentals of sectional anatomy relative to routine radiography are addressed. Lecture 2 hours, laboratory 2 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission.

**2503 CLINICAL PRACTICE IV 3 credit hours** Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures within the corresponding semester. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement will be taught to ensure the well-being of the patient prior to, during, and following the radiologic procedure. Lecture 2 hours, laboratory 2 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2513 RADIATION BIOLOGY AND PROTECTION 3 credit hours** Content provides an overview of the principles of interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation. Content also presents an overview of the principles of radiation protection, including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated. Lecture 3 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2523 PHARMACOLOGY AND VENIPUNCTURE 3 credit hours** Content provides basic concepts of pharmacology, venipuncture and administration of diagnostic contrast agents and intravenous medications. The appropriate delivery of patient care during these procedures is emphasized. Content is also designed to provide a brief overview of other imaging modalities and treatment to include equipment, dose differences, and types of radiation, patient preparations, indications and contraindications. Educational and certification requirements are also included. Lecture 2 hours, laboratory 2 hours. Prerequisite: Acceptance into the Radiologic Technology Program and department permission.

**2533 RADIOLOGIC TECHNOLOGY SEMINAR 3 credit hours** Content provides a comprehensive review of the radiography

curriculum in preparation for taking the certification exam given by The American Registry of Radiologic Technologists (ARRT). Identified areas of weakness will help the student focus on the curriculum items that need concentrated study. The computerized testing format of the ARRT exam will be emphasized, and, upon completion of the course, the student will be expected to apply the knowledge gained to successfully complete mock registry examinations. Seminar 3 hours. Prerequisite: Acceptance into the Radiologic Technology Program and departmental permission.

### **RESPIRATORY CARE (RESP)**

**2100 RESPIRATORY CARE RECITATION I** 0 credit hours Review and integrated discussion of information presented in lecture, labs, and clinical experiences during semester one of the clinical training program. Lecture/discussion 0 hours. Prerequisites: Acceptance into the Respiratory Care Clinical Training Program and departmental permission. Co-requisites: RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, and RESP 2161.

**2111 ETHICS AND HEALTH CARE SYSTEMS FOR RESPIRATORY CARE PRACTITIONERS** 1 credit hour Includes key organizational and operational elements of health care delivery organization and delivery of respiratory care services in the acute care setting. This course also explores the ethics and legal standards applied to the practice of respiratory care. Lecture 1 hour. Prerequisites: Acceptance into the Respiratory Care Clinical Training Program and departmental permission. Co-requisite: RESP 2100.

**2124 RESPIRATORY THERAPY PROCEDURES I** 4 credit hours An introduction to respiratory therapy, this course includes microbiology, infection control and sterilization, physical assessment and chart review, radiologic assessment of the chest, gas physics, medical gas therapy and delivery systems, humidity and aerosol therapy, lung expansion therapy and coughing techniques, secretion clearance techniques and manual resuscitators. Lecture 3 hours, laboratory 2 hours. Prerequisites: Acceptance into the Respiratory Care Clinical Training Program and departmental permission. Co-requisite: RESP 2100.

**2133 CARDIOPULMONARY ANATOMY AND PHYSIOLOGY** 3 credit hours An in-depth study of the function of the respiratory system. It includes pulmonary mechanics and circulation, ventilation, gas transport, Neuro-control of breathing and acid base balance. Lecture 3 hours. Prerequisites: Admission to the Respiratory Care Clinical Training Program and departmental permission. Co-requisite: RESP 2100.

**2143 RESPIRATORY PHARMACOLOGY** 3 credit hours This course is a comprehensive and practical understanding of current information in respiratory pharmacology. This course provides a basis of theoretic concepts of the physiopharmacologic functions of the lungs, heart, and kidneys, applicable to both the chronic pulmonary disease patient and the intensive care patient. A wide range of classes of drugs is given full consideration with emphasis on practical choices of individual situations. Lecture 3 hours. Prerequisites: Admission into the Respiratory Care Clinical Training Program and departmental permission. Co-requisite: RESP 2100.

**2153 RESPIRATORY PATHOLOGY** 3 credit hours An in-depth study of specific respiratory disease covering the method of diagnosis, treatment, clinical manifestation, prognosis, pathology, and incidence of occurrence in the general population. Lecture 3 hours. Prerequisites: Admission into the

Respiratory Care Clinical Training Program and departmental permission. Co-requisite: RESP 2100.

**2161 PULMONARY FUNCTION TESTING** 1 credit hour An introduction of pulmonary function testing to include: lung volumes and capacities, equipment, calibration and quality control, ATS standards, spirometry and lung volume tests, gas distribution and diffusion tests, exercise testing and bronchoscopy testing. Lecture 1 hour. Prerequisites: Admission into the Respiratory Care Clinical Training Program and departmental permission. Co-requisite: RESP 2100.

**2200 RESPIRATORY CARE RECITATION II** 0 credit hours Review and Integrated discussion of information presented in lecture, labs, and clinical experiences during semester two of the clinical training program. Lecture/discussion 0 hours. Prerequisites: Completion of RESP 2100, RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Co-requisites: RESP 2213, RESP 2224, RESP 2233, RESP 2242, and RESP 2253.

**2213 RESPIRATORY THERAPY PROCEDURES II** 3 credit hours A continuation of Respiratory Therapy Procedures I, this course offers information on arterial and capillary blood gas sampling techniques and analysis, arterial line insertions, electrocardiograms, capnography, transcutaneous O<sub>2</sub>/CO<sub>2</sub> monitoring, apnea monitoring, defibrillators, bronchial hygiene, airway management, endotracheal intubation and extubation, pulmonary rehabilitation and home care. Laboratory 4 hours. Prerequisite: RESP 2124. Co-requisite: RESP 2200.

**2224 RESPIRATORY CLINICAL PRACTICE I** 4 credit hours Respiratory procedures practiced in specialty areas of the hospital with supplemental information received through physician and faculty lectures. The clinical experience is coordinated to cover the areas of infection control and sterilization, physical assessment and chart review, radiologic assessment of the chest, medical gas therapy and delivery systems, humidity and aerosol therapies, pulmonary function testing, lung expansion therapy and coughing techniques, secretions clearance techniques, and manual resuscitators and CPR. Clinical Practice/Practicum 4 hours. Prerequisites: RESP 2100, RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Co-requisite: RESP 2200.

**2233 CRITICAL CARE** 3 credit hours A survey of procedures and principles utilized in the diagnosis and management of the critically ill patient, physical assessment, psychological aspects, fluid and electrolyte balance, clinical laboratory studies, nutrition and hemodynamic monitoring. Lecture 3 hours. Prerequisites: RESP 2100, RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Co-requisite: RESP 2200.

**2242 PEDIATRIC RESPIRATORY CARE** 2 credit hours A survey of general introductory concepts to disease states that are specific to the neonatal and pediatric patients, equipment and theory necessary for providing respiratory care, care during transport and developmental outcomes. Lecture 2 hours. Prerequisites: RESP 2100, RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Co-requisite: RESP 2200.

**2253 MECHANICAL VENTILATION** 3 credit hours This course offers information on the principle of mechanical ventilation and the effects of positive pressure ventilation, including non-invasive ventilation, and the effects of positive pressure ventilation. The operating modes, initiation of and monitoring of mechanical ventilation is also covered. The student will become

proficient in interpreting wave forms as well as managing the mechanical ventilation. Weaning techniques will be covered. Laboratory 4 hours. Prerequisites: RESP 2100, RESP 2111, RESP 2124, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Co-requisite: RESP 2200.

**2313 CLINICAL PRACTICE II 3 credit hours** Continuation of clinical experience with intensive care involvement. Clinical practice is coordinated to cover adult, pediatric and neonatal critical care, advanced airway care, mechanical ventilation, blood gas sampling techniques and analysis and critical care monitoring. Clinical Practice/Practicum 3 hours. Prerequisites: RESP 2200, RESP 2213, RESP 2224, RESP 2233, RESP 2242, and RESP 2253.

**2324 CLINICAL PRACTICE III 4 credit hours** Continuation of clinical experience with intensive care involvement. Clinical practice is coordinated to cover adult, pediatric and neonatal critical care, advanced airway care, mechanical ventilation, blood gas sampling techniques and analysis and critical care monitoring. Clinical Practice/Practicum 4 hours. Prerequisites: RESP 2200, RESP 2213, RESP 2224, RESP 2233, RESP 2242, and RESP 2253.

\*Liberal arts and sciences course.

## DEPARTMENT OF ART, MUSIC, AND THEATRE ARTS

Chair—Scott Richard Klein, Professor  
 Professors: Hoepfner, Labé, Lambert, Linehan, Liontas-Warren, McMillan, Whang  
 Associate Professor: Abbott, K. Underwood  
 Assistant Professors: Onishi, Vermillion

The [Department of Art, Music, and Theatre Arts](#) offers programs leading to Bachelor of Arts Degrees with majors in art, music, or theatre, a Bachelor of Fine Arts degree with a major in Studio Art, a Bachelor of Music degree with a major in music, and a Bachelor of Music Education with a major in music.

### BACHELOR OF ARTS DEGREE

#### MAJOR IN ART (110)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (48 hours)
  - A. Required Courses (38 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
  - B. Electives in Advanced Studio Courses\* (10 hours)  
\*No more than 6 hours may be taken in one content area.
- IV. MINOR REQUIREMENTS (18-24 hours)
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE

#### MAJOR IN MUSIC (160)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)  
This program requires a specific General Education course in humanities (MUSC 1413).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (44 hours) MUSC 1000 Concert/Recital Attendance (7 semesters); Band/Choir/Accomp./Orch./Guitar Ens (8 semesters); MUSC 1413, MUSC 2312, MUSC 2332, MUSC 3313, MUSC 3333, MUSC 3513, MUSC 3523, MUSC 3533, MUSC 3612; Major Lesson Field 8 hours (min. 2 hours at 4000 level); Piano (4 hours) (unless Proficiency is met); MUSC 4900. (All music majors (B.A. Degree) must pass a junior standing examination and a keyboard proficiency examination before their junior year.)
- IV. MINOR REQUIREMENTS (18 hours)
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE

#### MAJOR IN THEATRE (170)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (56 hours)

All Theatre majors are required to keep a portfolio of their work and complete a final project. (See advisor for details.)

#### A. Required Core Courses (38 hours)

THTR 1001 (8 semesters); THTR 1103, THTR 1203, THTR 2403, THTR 2603, THTR 3403, THTR 3803, THTR 3813, THTR 3823, THTR 3833, THTR 4993

#### B. Option (15 hours)

Select one of the following options:

##### Performance

THTR 1133, THTR 1503, THTR 1603, THTR 3603, THTR 4603

##### Technical

THTR 1503 or THTR 3703, THTR 2203, THTR 2503, THTR 3303, and either THTR 4203, THTR 4303, or THTR 4503

#### A. Electives in Theatre (3 hours)

May include the following: THTR 1901-3, THTR 3901-3, THTR 4901-3, THTR 4911-3, THTR 4921-6

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

### BACHELOR OF FINE ARTS DEGREE

#### MAJOR IN STUDIO ART (111)

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

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (70-78 hours)
  - A. Required Core Courses (38-44 hours)
 

*Graphic Design Concentration (38 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 4633, ART 4991

*Painting, Printmaking, or Sculpture Conc (44 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
  - B. Concentration (18-30 hours)  
Select one from the following: *Graphic Design Concentration (30 hours)* ART 2253, ART 2733, ART 2743, ART 3213, ART 3743, ART 3753, ART 4213, ART 4713, ART 4733, ART 4933  
*Painting, Printmaking, or Sculpture Conc (18 hours)*  
Courses selected in consultation with an advisor.
  - C. Electives\* (8-10 hours)  
*Graphic Design Concentration (10 hours)*  
*Painting, Printmaking, or Sculpture Conc (8 hours)*  
\*Elective courses may not be in concentration area.
- IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF MUSIC DEGREE

#### MAJOR IN MUSIC (161)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)  
This program requires a specific General Education course in humanities (MUSC 1413).
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR/MINOR REQUIREMENTS (81 hours)

**A. Required Core Courses (44 hours)** MUSC 1000 Concert/Recital Attendance (7 semesters); Band/Choir/Accomp/Orch/Guitar Ens (8 semesters); MUSC 1413, MUSC 2312, MUSC 2321, MUSC 2332, MUSC 2341, MUSC 3313, MUSC 3321, MUSC 3333, MUSC 3341, MUSC 3513, MUSC 3523, MUSC 3533, MUSC 3612, MUSC 3622, MUSC 4322, MUSC 4332, MUSC 4900, MUSC 4990

**B. Concentration: Major Lesson Field (37-41 hours)**

Select one of the following:

**Vocal Performance** MUSC 3761 (3 hours): French, German, and Italian Diction; MUSC 3990, MUSC 4312, MUSC 4343, MUSC 4753, MUSC 4981; Major Lesson Field (16 hours, min. 8 hours at 4000 level); Piano (6 hours); Foreign Language (3 hours); Electives (4 hours).

**Instrumental Performance** MUSC 3990, MUSC 4312, MUSC 4343, MUSC 4981; Major Lesson Field (16 hours, min. 8 hours at 4000 level); Piano (4 hours); Private Lessons in Secondary Instruments (6 hours); Electives (5 hours).

**Piano Performance** MUSC 3990, MUSC 4312, MUSC 4343, MUSC 4743, MUSC 4981; Major Lesson Field (16 hours, min. 8 hours at 4000 level); Minor Lesson Field (6 hours); Electives (6 hours).

**Composition** MUSC 3351-3 (6 hours); MUSC 3990, MUSC 4312, MUSC 4343, MUSC 4351-3 (8 hours); MUSC 4362, MUSC 4981, Piano (4 hours); Minor Lesson Field (6 hours); Electives (5 hours).

(All Music Majors (B.M. Degree) must pass an entrance examination, a junior standing examination, and a keyboard proficiency examination, and must enroll in the major ensemble of the student's area of concentration for 8 semesters.)

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

### BACHELOR OF MUSIC EDUCATION DEGREE MAJOR IN MUSIC (681)

#### I. GENERAL EDUCATION REQUIREMENTS (44 hours)

This program requires specific General Education courses in Humanities–MUSC 1413 and Behavioral Science–PSY 1113

#### II. UNIVERSITY REQUIREMENTS (1-3 hours)

UNIV 1001 or 1113

#### III. MAJOR/MINOR REQUIREMENTS (60 hours)

**B. Required Core Courses (30 hours)** MUSC 1000 Concert/Recital Attendance (7 semesters); MUSC Band/Choir/Accomp/Orch/Guitar Ens (8 semesters); MUSC 1413, MUSC 2312, MUSC 2321, MUSC 2332, MUSC 2341, MUSC 3313, MUSC 3321, MUSC 3333, MUSC 3341, MUSC 3513, MUSC 3523, MUSC 3533, MUSC 3612, MUSC 3622, MUSC 4900, MUSC 4990

#### C. Concentration: Major Lesson Field (30 hours)

Select one of the following:

**Instrumental/General** MUSC 1201 or MUSC 3801; MUSC 3642, MUSC 3652, MUSC 3662, MUSC 3672, MUSC 4343, MUSC 4712, MUSC 4722; Major Lesson Field (10 hours): MUSC 3802 (8 hours) and MUSC 4802 (2 hours); Piano (4 hours).

**Vocal/General** MUSC 3642, or MUSC 3652, or MUSC

3662, or MUSC 3672 or MUSC 3812; MUSC 4343, MUSC 4712, MUSC 4732; Major Lesson Field (Voice or Keyboard) (10 hours): MUSC 3802 (8 hours) and MUSC 4802 (2 hours); MUSC 3761 (3 hours): French, German, and Italian Diction; MUSC 4753; Piano (4 hours); Guided Elective (1 hour).

#### IV. REQUIRED EDUCATION COURSES (33 hours)

EDUC 1800, EDUC 3003, SPED 3103, EDUC 3612\*(R), EDUC 3673, EDUC 3733, EDUC 3753(R), EDUC 4313(R), EDUC 4653(R), EDUC 4955\*(R), EDUC 4985\*(R)

\*Courses taken during professional semester

(R)Restricted to those students admitted to Teacher Education.

#### V. ADDITIONAL REQUIREMENTS

Music Education candidates must achieve a grade of C or better in selected general education and education courses to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

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

#### VI. ELECTIVES TO COMPLETE 138 HOURS REQUIRED FOR GRADUATION

#### Teacher Licensure/Certification

Students who complete the requirements for this degree and pass the state tests for certification in Music will be eligible to apply for a standard teaching license.

### COURSE DESCRIPTIONS

#### ART (ART)

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

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

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

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

**1123 DRAWING II** 3 credit hours Drawing experiences that coordinate drawing skills with perception and creativity. Studio 6 hours. Prerequisite: ART 1113 or Permission of instructor.

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

**1223 DESIGN II** 3 credit hours Application and analysis of three-dimensional elements and principles of design. Studio 6 hours.

**1231 COMPUTER-STUDIO LAB** 1 credit hour An introduction to computer graphics and appropriate software for use in foundation studio art courses. For Art majors only. Studio 2

hours. Prerequisite: Concurrent enrollment in ART 1113 and/or ART 1213 or permission of the Chair.

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

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

**2313 PAINTING 3 credit hours** Painting courses exploring the principles, techniques, media and creative potential of painting. Studio 6 hours. May be repeated for credit under a different subtitle. Prerequisites: ART 1113, ART 1123, ART 1213, and ART 2243.

**2413 PRINTMAKING 3 credit hours** An introduction to various basic printmaking processes: collagraphs, monoprints, intaglio, serigraphy, lithography, relief printing. Studio 6 hours. Prerequisite: ART 1113, ART 1123, and ART 2243.

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

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

**2623\* HISTORY OF ART II 3 credit hours** A survey of the painting, sculpture and architecture from the Renaissance through the 20th Century. Lecture 3 hours. General Education, Humanities–Aesthetics.

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

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

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

**3133 FIGURE DRAWING 3 credit hours** A studio course emphasizing drawing concepts and techniques. Studio 6 hours. Prerequisite: ART 1113 and ART 1123.

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

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

**3723 PUBLIC SCHOOL ART 3 credit hours** Elementary and Secondary theory in two and three dimensional media designed for the application and understanding of art as an element of the

school curriculum with lecture laboratory and field experience. Teacher Certification students must be admitted to teacher education prior to enrollment. Studio 6 hours.

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

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

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

**4143 ADVANCED DRAWING 3 credit hours** Advanced studio courses exploring the principles, techniques, media and creative potential of drawing. May be repeated for credit under a different subtitle. Studio 6 hours. Prerequisite: ART 1113 and ART 1123.

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

**4323 ADVANCED PAINTING 3 credit hours** Advanced studio courses in a variety of painting techniques which may include incursions of other media such as photography and print. May be repeated for credit under a different subtitle. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

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

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

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

**4713 HISTORY OF GRAPHIC DESIGN 3 credit hours** Evolution of graphic communication from prehistoric times to the present. Investigation of the origins of printing and typography in Europe leading to the design of the printed page, the impact of industrial

technology upon visual communication and the study of the growth and development of modern graphic design. Lecture 3 hours.

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

**4823 ADVANCED CERAMICS** *3 credit hours* Advanced studio courses in the application of clay techniques emphasizing the aesthetics of form. May be repeated for credit under a different subtitle. Studio 6 hours. Prerequisite: ART 2813.

**4911-4 WORKSHOP** *1-4 credit hours* A concentrated course of specific exploration of various art forms, designed to provide intensive experience in studio projects. May be repeated for credit under different subtitle. No more than 6 hours of ART 4911-4 may be credited toward a major in Art. Studio 2-8 hours.

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

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

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

### **FINE ARTS (FNAR)**

**1013\* EXPLORING MULTICULTURALISM THROUGH THE ARTS** *3 credit hours* 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. General Education, Humanities - Aesthetics and Humanities - Diversity.

### **MUSIC (MUSC)**

**1000 CONCERT AND RECITAL ATTENDANCE** *0 credit hours* 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. Concert/recital 0 hours.

**1013\* AMERICAN POPULAR MUSIC** *3 credit hours* 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. General Education, Humanities-Aesthetics.

**1023\* MUSIC APPRECIATION** *3 credit hours* 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. General Education, Humanities-Aesthetics.

**1033\* WORLD MUSIC IN CULTURE** *3 credit hours* The study of the musics of the world in their cultural contexts. An exploration of the relationships between music and identity, everyday life, worship and belief, dance, memory, migration, and/or politics. The musics of Asia, Polynesia, The Middle East, Sub-Saharan Africa, the Caribbean, South America, Mexico, and Native

America are studied. Lecture 3 hours. General Education, Humanities-Aesthetics and Humanities-Diversity.

**1110-1 BAND 0-1 credit hour** Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

**1120-1 ORCHESTRA 0-1 credit hour** Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

**1130-1 JAZZ ENSEMBLE 0-1 credit hour** Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

**1140-1 CHOIR 0-1 credit hour** Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

**1150-1 GUITAR ENSEMBLE 0-1 credit hour** Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

**1201 CLASS LESSONS 1 credit hour** Class instruction in an orchestral instrument, keyboard, voice or guitar. Laboratory 2 hours. Requires 5 hours practice per week. May be repeated for credit.

**1413\* MUSIC LITERATURE 3 credit hours** An overview of the development of musical styles from antiquity to the present period including aspects of World Music. Requires the ability to read music. Recommended for music majors and minors. Lecture 3 hours. General Education, Humanities-Aesthetics.

**2201-2 PRIVATE LESSONS 1-2 credit hours** Private instruction in an orchestral instrument, keyboard, voice or guitar. One half-hour lesson per week per credit enrolled, maximum one hour lesson per week. Requires minimum 5 hours per week of practice per hour enrolled. May be repeated to a maximum 12 hours per instrument. Private lessons 1-2 hours. Prerequisite: Department permission.

**2301\* MUSIC FUNDAMENTALS 1 credit hour** An introduction to the basic signs and symbols and the theory of music. Lecture 1 hour, laboratory 1 hour.

**2312\* HARMONY AND STRUCTURE I 2 credit hours** The study of the harmony and structure of music through music analysis, composition and the development of associated functional keyboard skills. Lecture 1 hour, laboratory 1 hour. Recommended for music majors only.

**2321\* SIGHT-SINGING AND EAR TRAINING I 1 credit hour** The study and development of sight singing and ear training skills through the mastery of written, visual, singing and aural techniques. Laboratory 2 hours. Concurrent enrollment with MUSC 2312 recommended.

**2332\* HARMONY AND STRUCTURE II 2 credit hours** A continuation of MUSC 2312. Lecture 1 hour, laboratory 2 hours. Prerequisite: MUSC 2312.

**2341\* SIGHT-SINGING AND EAR TRAINING II 1 credit hour** A continuation of MUSC 2321. Laboratory 2 hours. Prerequisite: MUSC 2321. Concurrent enrollment with MUSC 2332 recommended.

**3160-1 SMALL ENSEMBLE 0-1 credit hour** Participation in instrumental, keyboard, vocal or guitar ensemble. Rehearsal 2-4 hours per week. Prerequisite: Departmental permission. May be repeated for credit or non-credit.

**3171 ACCOMPANYING** *1 credit hour* Piano performance experience through accompanying soloists, small and large ensembles and musical/opera productions. Rehearsal 2-4 hours plus practice each week. Prerequisite: Department permission. May be repeated for credit.

**3313\* HARMONY AND STRUCTURE III** *3 credit hours* A continuation of MUSC 2332. Lecture 3 hours. Prerequisite: MUSC 2332.

**3321\* SIGHT-SINGING AND EAR TRAINING III** *1 credit hour* A continuation of MUSC 2341. Laboratory 2 hours. Prerequisite: MUSC 2341. Concurrent enrollment with MUSC 3313 recommended.

**3333\* HARMONY AND STRUCTURE IV** *3 credit hours* A continuation of MUSC 3313. Lecture 3 hours. Prerequisite: MUSC 3313.

**3341\* SIGHT-SINGING AND EAR TRAINING IV** *1 credit hour* A continuation of MUSC 3321. Laboratory 2 hours. Prerequisite: MUSC 3321. Concurrent enrollment with MUSC 3333 recommended.

**3351-3 COMPOSITION** *1-3 credit hours* An exploration of various compositional styles and techniques. One half-hour lesson per week per credit hour enrolled. Prerequisite: MUSC 2312.

**3513\* MUSIC HISTORY I: ANTIQUITY THROUGH BAROQUE** *3 credit hours* A study of music development from antiquity through the Baroque era. Lecture 3 hours. Prerequisite: MUSC 1413.

**3523\* MUSIC HISTORY II: CLASSICAL THROUGH MID-19<sup>TH</sup> CENTURY** *3 credit hours* A continuation of MUSC 3513 from the Classical era through the mid-19<sup>th</sup> century. Lecture 3 hours. Prerequisite: MUSC 1413.

**3533\* MUSIC HISTORY III: MID-19<sup>TH</sup> CENTURY TO PRESENT** *3 credit hours* A continuation of MUSC 3523. A study of music development from the mid-19<sup>th</sup> century to the present. Lecture 3 hours. Prerequisite: MUSC 1413.

**3612\* FUNDAMENTALS OF CONDUCTING** *2 credit hours* A beginning course in the principles of both choral and instrumental conducting. Lecture 1 hour, laboratory 1 hour. Prerequisite: Recommended for music majors only.

**3622 ADVANCED CONDUCTING** *2 credit hours* The techniques of reading scores, use of the baton and interpretation. Practical experience in conducting. Lecture 1 hour, laboratory 1 hour. Prerequisite: MUSC 3612.

**3642 WOODWIND METHODS** *2 credit hours* 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, laboratory 1 hour. Prerequisite: Instructor permission.

**3652 BRASS METHODS** *2 credit hours* 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, laboratory 1 hour. Prerequisite: Instructor permission.

**3662 STRING METHODS** *2 credit hours* The study of the violin, viola, violoncello, double bass and guitar. Basic concepts of playing and teaching string instruments; survey of methods, materials and field experiences. Lecture 1 hour, laboratory 1 hour. Prerequisite: Instructor permission.

**3672 PERCUSSION METHODS** *2 credit hours* 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, laboratory 1 hour. Prerequisite: Instructor permission.

**3761\* ITALIAN, FRENCH, GERMAN DICTION** *1 credit hour* An introduction to diction in Italian, German, and French based on the song literature and using the International Phonetic Alphabet. Each language offered separately. Laboratory 2 hours.

**3801-4 PRIVATE LESSONS** *1-4 credit hours* Private instruction in an orchestral instrument, keyboard, voice or guitar. One half-hour lesson per week per credit hour enrolled, maximum one hour lesson per week. Requires minimum 5 hours per week of practice per hour enrolled. May be repeated to a maximum of 12 hours per instrument. Private lessons 1-4 hours. Prerequisite: Departmental permission. Open to music majors only.

**3812 INSTRUMENTAL METHODS FOR VOCAL AND KEYBOARD EDUCATION** *2 credit hours* A study of brass, woodwind, stringed, fretted and percussion instruments for Vocal Music Education and Keyboard Music Education majors. Students will learn basic techniques, performance skills, and methodology for all instrumental families. Lecture 1 hour, laboratory 2 hours.

**3981-3 SEMINAR** *1-3 credit hours* 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. Seminar 1-3 hours. Prerequisite: Department permission.

**3990 JUNIOR RECITAL** *0 credit hours* A pre-senior performance in the student's major area of study, normally one half-hour in length. Performance 0 hours. Prerequisite: Permission of the Chair.

**4312\* COUNTERPOINT** *2 credit hours* A study of Eighteenth Century species counterpoint through analysis and composition. Lecture 2 hours. Prerequisite: MUSC 3333.

**4322\* POST TONAL TECHNIQUES** *2 credit hours* A study of 20th Century harmonic and melodic techniques approached through original composition, analysis and performance. Lecture 2 hours. Prerequisite: MUSC 3333.

**4332\* FORM AND ANALYSIS** *2 credit hours* A study of the standard polyphonic and homophonic forms of the 18th and 19th centuries. Lecture 2 hours. Prerequisite: MUSC 3333.

**4343\* ARRANGING** *3 credit hours* The study of the art of arranging for instrumental and vocal ensembles. Lecture 3 hours. Prerequisite: MUSC 3333.

**4351-3 COMPOSITION** *1-3 credit hours* An exploration of various compositional styles and techniques. One half-hour lesson per week per credit hour enrolled. Lecture 1-3 hours. Prerequisite: Junior standing in composition. May be repeated for credit. Open to music composition majors only.

**4362 COMPUTER MUSIC** *2 credit hours* 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, laboratory 2 hours.. Prerequisite: Department permission.

**4712 ELEMENTARY METHODS** *2 credit hours* A professional training course for students preparing to teach elementary school music. Includes philosophies and practices of current leading music educators with classroom experience relating to conceptual approach. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours. Prerequisite: Restricted to students admitted to teacher education.

**4722 SECONDARY INSTRUMENTAL METHODS** *2 credit hours*

A professional training course for students preparing to teach secondary school instrumental music. Study of philosophy, psychology and pedagogy as applied to the teaching of instruments. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours. Prerequisite: Restricted to students admitted to teacher education.

**4732 SECONDARY VOCAL METHODS** *2 credit hours* A professional training course for students preparing to teach secondary school vocal music. Study of philosophy and pedagogy as applied to the teaching of vocal music. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours. Prerequisite: Restricted to students admitted to teacher education.

**4733\* KEYBOARD LITERATURE** *3 credit hours* Survey of keyboard literature. Lecture 3 hours.

**4743 KEYBOARD PEDAGOGY** *3 credit hours* The study of teaching techniques and materials for class and private instruction. Lecture 3 hours. Prerequisite: department permission.

**4753 VOCAL PEDAGOGY** *3 credit hours* The study of vocal training techniques including anatomy of vocal tract, physiological process and acoustical properties, methods and materials. Lecture 3 hours. Prerequisite: Department permission.

**4801-4 PRIVATE LESSONS** *1-4 credit hours* Private instruction in an orchestral instrument, keyboard, voice or guitar. One half-hour lesson per week per credit hour enrolled, maximum one hour lesson per week. Requires minimum 5 hours per week of practice per hour enrolled. May be repeated to a maximum 16 hours per instrument. Private lessons 1-4 hours. Prerequisite: Junior standing. Open to music majors only.

**4900 SENIOR MUSIC CAPSTONE** *0 credit hours* A composite synthesis of focused topics including the music department's internal music examination, the Educational Testing Service online exit examination for music, the Collegiate Assessment of Academic Proficiency (university writing and critical thinking exit examination), and the strengthening of the individual student portfolio for potential career advancement and/or entry into graduate studies. Required of all music degrees (B.A., B.M., and B.M.E.) Capstone/lecture 0 hours. Prerequisite: Permission of the Chair after completion of Music Theory (MUSC 2312, 2321, 3313, 3333) and Music History Sequence (MUSC 3513, 3523, and 3533).

**4910-4 WORKSHOP** *0-4 credit hours* A concentrated specific activity utilizing lectures and practical application exercises. May be repeated for credit to a maximum of 8 hours credit. Lecture 0-4 hours.

**4981-3 INDEPENDENT STUDY** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: Department permission. The total number of hours earned in independent study may not exceed four.

**4990 SENIOR RECITAL** *0 credit hours* Culminating performance in the student's major area of study. Normally one hour in length. Performance 0 hours. Prerequisite: Permission of the Chair.

**THEATRE ARTS (THTR)**

**1001 THEATRE PRACTICUM** *1 credit hour* 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. Practicum 1 hour.

**1103\* INTRODUCTION TO THEATRE** *3 credit hours* 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. General Education, Humanities–Aesthetics.

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

**1203\* TECHNICAL PRODUCTION** *3 credit hours* 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 concurrently enrolled in THTR 1103.

**1503\* MAKE-UP** *3 credit hours* 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 credit hours* 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 credit hours* Open to all University students. Laboratory experience in performance, technical production, and management. Arranged around the student's schedule. May be repeated for credit. Laboratory 1-3 hours. Permission of instructor.

**2203\* STAGECRAFT** *3 credit hours* 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 credit hours* The techniques of production stage management, including preparing the prompt script, rehearsal procedures, organizing the technical elements, cueing and running the performance. Lecture 3 hours.

**2503\* COSTUME TECHNIQUES** *3 credit hours* 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 credit hours* 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 concurrently enrolled in THTR 1103.

**3303\* LIGHTING** *3 credit hours* 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 credit hours 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 credit hours 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 credit hours 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 credit hours 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 credit hours 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 18<sup>th</sup> AND 19<sup>th</sup> CENTURIES** 3 credit hours 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 20<sup>th</sup> AND 21<sup>st</sup> CENTURIES AND CHINA** 3 credit hours 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 credit hours 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 credit hours 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 credit hours 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 credit hours 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 credit hours 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 credit hours An individual study course of advanced nature. Subject matters vary with background and interest of student. Independent study 1-3 hours. Prerequisite: Permission of department. May be repeated for credit.

**4911-3 SEMINAR** 1-3 credit hours Concentrated investigation of specific problems and/or areas in theatre. Seminar 1-3 hours. Prerequisite: Permission of department. May be repeated for credit.

**4921-8 INTERNSHIP** 1-8 credit hours 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. Internship 1-8 hours.

**4993 THEATRE ARTS CAPSTONE** 3 credit hours A reflection on the skills and knowledge at the culmination of Theatre Arts studies. The student will complete in-depth research and analysis in order to realize a project in the production program. In addition, the student will document their progress of collaboration and artistic choices. As part of this process, the student will finalize their portfolio(s) which should be at the level to be submitted to graduate school and/or as a working professional. The student will also make an oral presentation of their portfolio and an oral defense of their project. Capstone/lecture 3 hours. Prerequisite: Senior standing.

\*Liberal arts and sciences course.

## DEPARTMENT OF CHEMISTRY, PHYSICS, AND ENGINEERING

Chair–Danny McGuire, Professor  
Professors: Bryan, Buckley, Nalley, Vitense  
Assistant Professors: Moore, Youngblood  
Instructors: Polson

The [Department of Chemistry, Physics, and Engineering](#) offers programs leading to the Associate in Applied Science degree with a major in Engineering and the Bachelor of Science degree with majors in Chemistry or Physics.

### ASSOCIATE IN APPLIED SCIENCE DEGREE MAJOR IN ENGINEERING (545)

- I. **GENERAL EDUCATION REQUIREMENTS (27 hours)**  
ENGL 1113, ENGL 1213, PS 1113; MATH 2215, HIST 1483 or HIST 1493, CHEM 1364/1361, PHYS 2015
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS (23-26 hours)**
  - A. **Required Core Courses (12 hours)** ENGR 1411, ENGR 1412, ENGR 2113, ENGR 2223, ENGR 2723
  - B. **Concentration (11-14 hours)**  
Students must choose from one of the following concentrations:
    - Mechanical Engineering (11 hours)** ENGR 2002, ENGR 2213, ENGR 2533, PHYS 2213 or higher\*  
\*PHYS 3003/3011 strongly encouraged.
    - Electrical Engineering (13 hours)** CS 1314, ENGR 2002, ENGR 2314, ENGR 2713
    - Civil Engineering (14 hours)** GEOL 1014, CHEM 1474/1471, ENGR 2002, ENGR 2153
    - Environmental Engineering (14 hours)** CHEM 1474/1471, CHEM course above CHEM 1474/1471\*, ENGR 2002, ENGR 2153  
\*CHEM 3314 strongly encouraged.
    - Industrial Engineering (12 hours)** CS 1314, ENGR 2002, ENGR 2213, ENGR 2533
- IV. **ADDITIONAL REQUIREMENTS (17 hours)** MATH 2235, MATH 2244, MATH 2613 or higher\*, PHYS 2025  
\*MATH 3253 strongly encouraged.
- V. **ELECTIVES TO COMPLETE 68-71 HOURS REQUIRED FOR GRADUATION**

### BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY (340)

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires specific General Education courses in Mathematics (MATH 2215) and Physical Science (CHEM 1361 and 1364).
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS\* (56-65 hours)**  
\*Students must maintain an overall 2.0 GPA for all Major courses.
  - A. **Required Core Courses (25 hours)** CHEM 1361/1364, CHEM 1471/1474, CHEM 2541, CHEM 3113, CHEM 3232, CHEM 3314, CHEM 3324, CHEM 4541
  - B. **Concentration and Options (31-40 hours)**

Majors must select from the following options below:  
**American Chemical Society Certified Chemistry Degree Option**

**Required Courses (40 hours)** CHEM 4025, CHEM 4403, CHEM 4334, CHEM 4351, CHEM 4353, CHEM 4361, CHEM 4363, CHEM 4413, CHEM 4491-3\*\*, MATH 2235, MATH 2244, MATH 3253, MATH 4433 (preferred) or MATH 2613.

\*\*Only three hours of CHEM 4491-3 may be counted toward completion of the required fifty hours for chemistry degree. Must take a minimum of two credit hours of Special Problems in Research.

**Electives (as needed)** CHEM 2441, CHEM 3334, CHEM 3343, CHEM 4401, CHEM 4411, CHEM 4332, CHEM 4481-3

**Chemistry Degree Option (non-ACS Certified) (must select minor)**

**Required Courses (8 hours)** Choose one concentration: Physical Chemistry or Biochemistry

1. Physical Chemistry: CHEM 4351, CHEM 4353, CHEM 4361, CHEM 4363
2. Biochemistry: CHEM 4401, CHEM 4403, CHEM 4411, CHEM 4413

**Required Upper Div Analytical Elective (3-5 hours)** CHEM 3334 or CHEM 3343 or CHEM 4025

**Electives (2-4 hours)** CHEM 2441, CHEM 3334, CHEM 3343, CHEM 4025, CHEM 4332, CHEM 4334, CHEM 4481-3, CHEM 4491-3\*\*

\*\*Only three hours of CHEM 4491-3 may be counted toward completion of the required forty hours for chemistry degree.

**Minor (18 hours)**

**Health Profession Chemistry Degree Option**

**Required Courses (23 hours)** CHEM 4401, CHEM 4403, CHEM 4411, CHEM 4413, BIOL 1364, BIOL 1474, BIOL 2124, CIS 1013

**Guided Electives (17 hours)**

1. Must select at least one lower division course from the following: AGRC 1124, BIOL 2034, BIOL 2134, or BIOL 2154
2. Substitutions can be made for other professional health programs. ANIM 3653, BIOL 3014, BIOL 3093, BIOL 3174, BIOL 4004, CHEM 3334, CHEM 3343, CHEM 4025, CHEM 4332, CHEM 4334, CHEM 4351, CHEM 4353, CHEM 4361, CHEM 4363, CHEM 4481-3, CHEM 4491-3\*\*, STAT 2013

\*\*Only three hours of CHEM 4491-3 may be counted toward completion of the elective hours for this option.

IV. **ADDITIONAL REQUIREMENTS (10 hours)** PHYS 1115 or PHYS 2015 (preferred) and PHYS 1215 or PHYS 2025 (preferred)

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

### BACHELOR OF SCIENCE DEGREE MAJOR IN PHYSICS (385)

- I. **GENERAL EDUCATION REQUIREMENTS (44 hours)**  
This program requires specific General Education courses in Mathematics (MATH 2215), and Physical Science (CHEM 1361 and 1364).
- II. **UNIVERSITY REQUIREMENTS (1-3 hours)**  
UNIV 1001 or 1113
- III. **MAJOR REQUIREMENTS\* (40 hours)**

\*Students must maintain an overall 2.0 GPA for all Major courses.

- A. Required Courses (28 hours)** PHYS 1115 or PHYS 2015, PHYS 1215 or PHYS 2025, PHYS 2541, PHYS 3003, PHYS 3011, PHYS 3043, PHYS 3303, PHYS 3403, PHYS 4113, PHYS 4541
- B. Course Options (4-5 hours)**  
**Option A: Electronics (5 hours)** PHYS 3031 and PHYS 3024  
**Option B: Optics (4 hours)** PHYS 4401 and PHYS 4403
- C. Other Elective Courses (7-8 hours)** CHEM 4353, CHEM 4363, PHYS 3033, PHYS 4452, PHYS 4481-3, PHYS 4491-3
- IV. ADDITIONAL REQUIREMENTS (21 hours)** CHEM 1474/1471, CS 1314 (or similar), MATH 2235, MATH 2244, and MATH 3253.  
 Depending upon high school background, some students may also need: MATH 0013, MATH 0103, MATH 0213 and/or MATH 0115, MATH 1513, and MATH 1613 as prerequisites. Some of these courses may be used to satisfy General Education requirements.
- V. MINOR REQUIREMENTS (18 hours)**  
 (Mathematics or Chemistry minor strongly recommended.)
- VI. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

### COURSE DESCRIPTIONS

The course curricula to complete a degree in the Department of Chemistry, Physics, and Engineering is designed to be studied in a sequential manner. The prerequisites are advisory and reflect this sequence. These courses are taught using knowledge and skills that the student is expected to retain from previous studies. Taking Chemistry, Physics, and Engineering 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 (ASTR)

**1104\* CONTEMPORARY ASTRONOMY** 4 credit hours 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. General Education, Physical Science.

#### CHEMISTRY (CHEM)

**1004\* DESCRIPTIVE CHEMISTRY** 4 credit hours A one-semester introductory course in chemistry. Principal concepts and theories of chemistry are examined from the layman's point of view. This course is highly recommended for those planning to take CHEM 1364/1361 who have not had previous chemistry. Credit earned in this course cannot be counted towards a science major or minor. This course does not fulfill chemistry requirements for pre-professional programs. Lecture 4 hours. General Education, Physical Science.

**1105\* INTRODUCTION TO CHEMISTRY** 5 credit hours Introduction to Chemistry, a one-semester course for students with degree plan that has a one-semester chemistry requirement. This course includes fundamental knowledge of inorganic chemistry, with laboratory. Lecture 4 hours, lab 2

hours. Recommended prerequisite: College Algebra. Co-requisite: CHEM 1105L. General Education Laboratory Science, Physical Science.

**1105L\* INTRODUCTION TO CHEMISTRY LAB** 5 credit hours LAB: Introduction to Chemistry, a one-semester course for students with degree plan that has a one-semester chemistry requirement. This course includes fundamental knowledge of inorganic chemistry, with laboratory. Lecture 4 hours, lab 2 hours. Recommended prerequisite: College Algebra. Co-requisite: CHEM 1105L. General Education Laboratory Science, Physical Science.

**1361\* GENERAL CHEMISTRY LABORATORY I** 1 credit hour Selected laboratory experiences to test application of chemical theory. Laboratory 2 hours. Prerequisite: Successful completion of or concurrent enrollment in CHEM 1364. General Education Laboratory Science, Physical Science.

**1364\* GENERAL CHEMISTRY I** 4 credit hours Principles of general chemistry, with emphasis on theory and its application to structure and reactions. Lecture 4 hours. Students are strongly recommended to take MATH 1513 (College Algebra) or higher as it is a prerequisite for CHEM 1474 (General Chemistry II). It is also strongly advised that students who have not successfully passed high school chemistry take CHEM 1004 Descriptive Chemistry prior to taking this course. General Education, Physical Science.

**1471\* GENERAL CHEMISTRY LABORATORY II** 1 credit hour Selected laboratory experiments to test applications of kinetics, thermodynamics, equilibrium, and quantitative analysis. Laboratory 2 hours. Prerequisite: Successful completion of or concurrent enrollment in CHEM 1474. Will not satisfy General Education science requirements.

**1474\* GENERAL CHEMISTRY II** 4 credit hours A continuation of CHEM 1364. Lecture 4 hours. Prerequisite: CHEM 1364 and MATH 1513 or higher. CHEM 1471 must be successfully completed before credit is given in this course. Will not satisfy General Education science requirements.

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Chemistry courses at the 2000-, 3000-, or 4000-level **may not** be used to fulfill General Education science requirements.

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**2441 WORKING SAFELY WITH CHEMICALS** 1 credit hour Seminars, discussion, and real-world activities will focus on regulations and protocols governing laboratory safety and working safely with chemicals. Students will be assessed on compliance regulations, identification of exposures, and safeguarding exposures. Each student will also be asked to evaluate safety policies, emergency preparedness, and hazard recognition. The objective is to prepare students for a safe laboratory experience and be more responsible and knowledgeable employees after graduation. Does not count toward Physical Science General Education requirement. Lecture 1 hour.

**2541\* INTRODUCTION TO CHEMICAL LITERATURE** 1 credit hour This course is designed for students to distinguish between different types of literature sources, accomplish literature searches, prepare poster presentations, and write technical papers and resumes. Lecture 1 hour. Prerequisite: CHEM 1474.

**3113\* FUNDAMENTALS OF ANALYTICAL CHEMISTRY** 3 credit hours An introductory course in analytical chemistry emphasizing volumetric and electrochemical methods. Techniques for the analysis of samples based on instrumental methods are also introduced. Lecture 3 hours. Prerequisites: CHEM 1474 or equivalent.

**3323\* QUANTITATIVE ANALYSIS LABORATORY** 2 credit hours Laboratory techniques of quantitative analysis including volumetric and spectroscopic methods. Laboratory 6 hours. Prerequisite: CHEM 3113 or concurrent enrollment. CHEM 3113 must be successfully completed before credit is received in this course.

**3314\* ORGANIC CHEMISTRY I** 4 credit hours 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 1474 and CHEM 1471 or equivalent. Co-requisite: CHEM 3314L.

**3314L\* ORGANIC CHEMISTRY I LAB** 0 credit hours LAB: 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 1474 and CHEM 1471 or equivalent. Co-requisite: CHEM 3314.

**3324\* ORGANIC CHEMISTRY II** 4 credit hours A continuation of CHEM 3314. The second semester of a two-semester sequence. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHEM 3314. Co-requisite: CHEM 3324L.

**3324L\* ORGANIC CHEMISTRY II LAB** 0 credit hours LAB: A continuation of CHEM 3314. The second semester of a two-semester sequence. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHEM 3314. Co-requisite: CHEM 3324.

**3334\* CHEMISTRY OF WATER AND WASTEWATER** 4 credit hours Inorganic chemistry of natural water supplies, pollution and water treatment. Standard methods and state environmental quality references are used. Lecture 2 hours, laboratory 6 hours. Prerequisites: CHEM 1471 and CHEM 1474. Co-requisite: CHEM 3334L.

**3334L\* CHEMISTRY OF WATER AND WASTEWATER LAB** 0 credit hours LAB: Inorganic chemistry of natural water supplies, pollution and water treatment. Standard methods and state environmental quality references are used. Lecture 2 hours, laboratory 6 hours. Prerequisites: CHEM 1471 and CHEM 1474. Co-requisite: CHEM 3334.

**3343\* ORGANIC ANALYSIS** 3 credit hours 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. Co-requisite: CHEM 3343L.

**3343L\* ORGANIC ANALYSIS LAB** 0 credit hours 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.

**4025\* INSTRUMENTAL METHODS OF ANALYSIS** 5 credit hours Theoretical and laboratory study of modern analytical techniques, both qualitative and quantitative, with emphasis on instrument types, their components and methodology. Lecture 3 hours, laboratory 6 hours. Prerequisites: CHEM 3113 and CHEM 3232. Co-requisite: CHEM 4025L.

**4025L\* INSTRUMENTAL METHODS OF ANALYSIS LAB** 0 credit hours LAB: Theoretical and laboratory study of modern analytical techniques, both qualitative and quantitative, with emphasis on instrument types, their components and

methodology. Lecture 3 hours, laboratory 6 hours. Prerequisites: CHEM 3113 and CHEM 3232. Co-requisite: CHEM 4025.

**4332\* ADVANCED INORGANIC CHEMISTRY LAB**, 2 hours credit An introduction to classical inorganic chemical syntheses, purification methods and analyses. Techniques utilized in the identification of compounds include Fourier transform infrared, ultra-violet and visible, multinuclear magnetic resonance and mass spectroscopies. Some synthetic procedures utilize an inert atmosphere approach. Laboratory 6 hours. Prerequisite: CHEM 4334 or concurrent enrollment.

**4334\* ADVANCED INORGANIC CHEMISTRY** 4 credit hours An advanced study of the principles of inorganic chemistry. Theoretical concepts to be included in the study are chemical bonding, acid-base chemistry, coordination chemistry, crystal field theory, and molecular orbital theory. An investigation into periodicity of the elements in terms of the effect of atomic size, ionic size, and charge on various chemical properties will be pursued. Lecture 4 hours. Prerequisites: CHEM 3324, PHYS 1215, and MATH 2215.

**4351\* PHYSICAL CHEMISTRY LABORATORY I** 1 credit hour Apparatus, method and calculations employed in physicochemical measurements. Laboratory 3 hours. Prerequisites: CHEM 4353 or concurrent enrollment and CHEM 3232.

**4353\* PHYSICAL CHEMISTRY I** 3 credit hours The study of thermodynamics particularly as applied to chemical systems. Lecture 3 hours. Prerequisites: CHEM 1474/1471, MATH 2215 and PHYS 1215 or PHYS 2025.

**4361\* PHYSICAL CHEMISTRY LABORATORY II** 1 credit hour A continuation of CHEM 4351. Laboratory 3 hours. Prerequisite: CHEM 4363 or concurrent enrollment.

**4363\* PHYSICAL CHEMISTRY II** 3 credit hours A continuation of CHEM 4353. Study of kinetics, quantum mechanics, and statistical thermodynamics as related to chemical systems. Lecture 3 hours. Prerequisite: CHEM 4353.

**4401\* BIOCHEMISTRY I LABORATORY** 1 credit hour Qualitative and quantitative examination of biochemical materials and reactions. Laboratory 3 hours. Prerequisite: CHEM 4403 or concurrent enrollment.

**4403\* BIOCHEMISTRY I** 3 credit hours 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 concurrent enrollment.

**4411\* BIOCHEMISTRY II LABORATORY** 1 credit hour A continuation of Biochemistry Laboratory CHEM 4401. Laboratory 3 hours. Prerequisites: CHEM 4401, CHEM 4413 or concurrent enrollment.

**4413\* BIOCHEMISTRY II** 3 credit hours A continuation of Biochemistry, CHEM 4403, with emphasis on the catabolic routes of metabolism. Lecture 3 hours. Prerequisite: CHEM 4403.

**4481-3 ADVANCED TOPICS IN CHEMISTRY** 1-3 credit hours This lecture-based course will focus on a topic or topics of current interest to the chemical profession. Lecture 1-3 hours. Prerequisite: CHEM 3324 or CHEM 3345 or concurrent enrollment.

**4491-4 SPECIAL PROBLEMS IN CHEMISTRY** 1-4 credit hours Training in independent work. Experimental investigations of an assigned problem. Normally graded on S/U basis. Laboratory 3-12 hours. Prerequisite: Department approved application.

**4541\* CHEMISTRY CAPSTONE** *1 credit hour* The course involves student preparation and presentation of original and/or library chemical research topics. The course will also explore issues related to becoming a morally responsible scientist to ethical problem solving. Oral presentations and written reports are required. One scheduled presentation will be given outside of class time. Program assessment is also a component. Capstone/lecture 1 hour. Prerequisite: CHEM 2541 and Senior standing.

### **ENGINEERING (ENGR)**

**1411 INTRODUCTION TO ENGINEERING** *1 credit hour* Introduction to engineering disciplines and available career paths. Topics covered: majors, study habits, career planning, advising, professional societies, and student programs. Student must be eligible to take MATH 2215 or higher. Lecture 1 hour.

**1412 ENGINEERING DESIGN AND CAD** *2 credit hours* Introduction to engineering design using modern design methodologies and computer-aided tools. By using computer aided design/drafting software, SolidWorks/AutoCAD, students will learn basic principles of engineering graphics and geometric modeling to assist in design problem visualization and planning. Design, construction and testing through participation in a team-based design project contest. Lecture 2 hours. Student must be eligible to take MATH 2215 or higher.

**2002 PROFESSIONAL DEVELOPMENT** *2 credit hours* Introduction to real world applications of engineering skills learned in the Engineering curriculum, including speakers from industry and studying projects driven from industry needs. Lecture 2 hours. Prerequisites: ENGR 1411 and ENGR 1412.

**2113 STATICS** *3 credit hours* A study of vector representation of forces and movement. Resultants of force systems, static equilibrium of rigid bodies, statics of structures, and fluid statics. Free body, shear and moment diagrams. Lecture 3 hours. Prerequisites: MATH 2215 and PHYS 2015.

**2153 MECHANICS OF MATERIALS** *3 credit hours* Introduction to basic principles of mechanics. Topics in stress and strain, transformations, kinematic relations and review of conservation equations will be covered. Hooke's Law, Young's modulus and Poisson's ratio will be utilized. Solutions of one and two dimensional mechanics problems, including thermal stresses and strains, torsion, and beam flexure, shear and deflection, and buckling of columns. Lecture 3 hours. Prerequisites: ENGR 2113.

**2213 THERMODYNAMICS** *3 credit hours* First and Second Laws of Thermodynamics are developed and applied to the solution of problems from a variety of engineering fields. The study of properties of substances and principles governing changes in form of energy. Extensive use is made of partial differential calculus to interrelate the thermodynamic functions. Lecture 3 hours. Prerequisites: ENGR 2113 and CHEM 1364/1361.

**2223 FLUID MECHANICS** *3 credit hours* The study of fluid properties, statics, conservation equations, dimensional analysis and similitude, viscous flow in ducts, inviscid flow, boundary layer theory, open channel flow, turbomachinery and fluid measurement techniques: e.g., Navier-Stokes Equations, Eulers Equations, Bernoulli Equations, etc., and their applications. It will also include examples of ideal fluid flow and viscous fluid flow, such as flow in open and closed conduits. Lecture 3 hours. Prerequisites: ENGR 2113.

**2314 INTRODUCTION TO DIGITAL DESIGN** *4 credit hours* This course involves the study of number systems and their applications, Boolean algebra, minimization procedures, combinatorial logic functions, introduction to sequential logic

design, finite state machines and clocked (synchronous) sequential circuits. Analysis, synthesis and implementation are appropriately emphasized. Lecture 3 hours, laboratory 3 hours. Prerequisite: MATH 2235. Co-requisite: ENGR 2314L.

**2314L INTRODUCTION TO DIGITAL DESIGN LAB** *0 credit hours* LAB: This course involves the study of number systems and their applications, Boolean algebra, minimization procedures, combinatorial logic functions, introduction to sequential logic design, finite state machines and clocked (synchronous) sequential circuits. Analysis, synthesis and implementation are appropriately emphasized. Lecture 3 hours, laboratory 3 hours. Prerequisite: MATH 2235. Co-requisite: ENGR 2314.

**2533 DYNAMICS** *3 credit hours* This course is an introduction to basic principles of engineering. Topics include kinematics and kinetics of particles, systems of particles, and rigid bodies from a Newtonian viewpoint using vector algebra and calculus. Work-energy and impulse-momentum principles and planar and three-dimensional kinetics and kinematics of rigid bodies will be studied. Lecture 3 hours. Prerequisites: ENGR 2113.

**2713 DIGITAL SIGNALS AND FILTERING** *3 credit hours* This course involves the study of digital signals and filters, discrete Fourier and Z transforms and sampling. Lecture 3 hours. Prerequisites: ENGR 1411 and MATH 2235.

**2723 ELECTRICAL CIRCUITS** *3 credit hours* The study of the elements of electrical engineering: AC and DC circuits, mesh and node formulation of network equations, steady-state response to sinusoids, energy, power and power factor. Lecture 3 hours. Prerequisites: MATH 2235 and PHYS 2025.

### **GEOLOGY (GEOL)**

**1014\* PHYSICAL GEOLOGY** *4 credit hours* Emphasis is on plate tectonics, the rock cycle, and the hydrologic cycle. Discussion involved 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. Available field trips. Lecture 3 hours, laboratory 2 hours. Co-requisite: GEOL 1014L. General Education Laboratory Science, Physical Science.

**1014L\* PHYSICAL GEOLOGY LAB** *0 credit hours* LAB: Emphasis is on plate tectonics, the rock cycle, and the hydrologic cycle. Discussion involved 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. Available field trips. Lecture 3 hours, laboratory 2 hours. Co-requisite: GEOL 1014. General Education Laboratory Science, Physical Science.

### **PHYSICS (PHYS)**

**1004\* DESCRIPTIVE PHYSICS** *4 credit hours* 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. General Education, Physical Science.

**1115\* PHYSICS I** *5 credit hours* 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 2215. Co-requisite: PHYS 1115L. General Education Laboratory Science, Physical Science.

**1115L\* PHYSICS I LAB** *0 credit hours* LAB: 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 2215. Co-requisite: PHYS 1115. General Education Laboratory Science, Physical Science.

**1215\* PHYSICS II** *5 credit hours* A continuation of PHYS 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. Co-requisite: PHYS 1215L. Will not satisfy General Education science requirements.

**1215L\* PHYSICS II LAB** *0 credit hours* LAB: A continuation of PHYS 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. Co-requisite: PHYS 1215. Will not satisfy General Education science requirements.

Physics courses at the 2000-, 3000-, or 4000-level **may not** be used to fulfill General Education science requirements.

**2015\* PHYSICS I FOR SCIENCE AND ENGINEERING MAJORS** *5 credit hours* 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. Co-requisite: PHYS 2015L.

**2015L\* PHYSICS I FOR SCIENCE AND ENGINEERING MAJORS LAB** *0 credit hours* LAB: 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. Co-requisite: PHYS 2015.

**2025\* PHYSICS II FOR SCIENCE AND ENGINEERING MAJORS** *5 credit hours* A continuation of PHYS 2015. Includes topics from electricity, light, and modern physics. Lecture 5 hours, laboratory 2 hours. Prerequisite: PHYS 2015. Co-requisite: PHYS 2025L.

**2025L\* PHYSICS II FOR SCIENCE AND ENGINEERING MAJORS LAB** *0 credit hours* LAB: A continuation of PHYS 2015. Includes topics from electricity, light, and modern physics. Lecture 5 hours, laboratory 2 hours. Prerequisite: PHYS 2015. Co-requisite: PHYS 2025.

**2213\* SELECTED TOPICS IN GENERAL PHYSICS** *3 credit hours* A survey treatment of the basic topics in general physics using calculus. Designed for those students who have taken the non-calculus general physics sequence as preparation for the upper division physics courses. NOT open to students with credit in PHYS 2015 or PHYS 2025. Lecture 3 hours. Prerequisites: PHYS 1215 and MATH 2215.

**2541\* INTRODUCTION TO PHYSICS LITERATURE** *1 credit hour* This course is designed for students to distinguish between different types of literature sources, accomplish literature searches, prepare poster presentations, and write technical papers. Lecture 1 hour. Prerequisite: PHYS 1215 or PHYS 2025.

**3003\* MODERN PHYSICS I** *3 credit hours* 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. Lecture 3 hours. Prerequisites: MATH 2215 or concurrent enrollment and PHYS 1215 or PHYS 2025.

**3011\* MODERN PHYSICS I LABORATORY** *1 credit hour* 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 credit hours* Principles and application of dc and ac circuits

analysis, measuring instruments, operational amplifiers, and various solid state devices. The physics of solid state electronic devices and their applications. Lecture 4 hours. Prerequisites: PHYS 1215 or PHYS 2025 and MATH 2215.

**3031 ELECTRICAL MEASUREMENTS AND ELECTRONICS LABORATORY** *1 credit hour* Construction and testing of electrical circuits which are applications of the devices studied in PHYS 3024. Laboratory 3 hours. Prerequisite: PHYS 3024 or concurrent enrollment.

**3033\* MODERN PHYSICS II** *3 credit hours* 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.

**3043 INTRODUCTION TO QUANTUM MECHANICS** *3 credit hours* An introduction to quantum mechanics. Schrodinger equation, probabilities, Heisenberg uncertainty principle, and angular momentum. Applications to atomic physics, molecular physics, condensed matter and nuclear physics. Lecture 3 hours. Prerequisites: PHYS 1215 or 2025 and MATH 3253 or concurrent enrollment.

**3303\* CLASSICAL MECHANICS** *3 credit hours* A vector analytical approach to the mechanics of particles, systems of particles, and rigid bodies. Lecture 3 hours. Prerequisite: PHYS 1115 or PHYS 2015 and MATH 3253.

**3403\* THERMAL PHYSICS** *3 credit hours* 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. Lecture 3 hours. Prerequisites: MATH 2235 and PHYS 1215 or PHYS 2025. **4113\* ELECTRICITY AND MAGNETISM** *3 credit hours* 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: PHYS 1215 or PHYS 2025 and MATH 2244.

**4401 OPTICS LABORATORY** *1 credit hour* Selected experiments in ray optics, diffraction, refraction, image formation, interference, lenses, mirrors, lasers, dispersion, polarization and holography. Laboratory 2 hours. Prerequisite: PHYS 4403 or concurrent enrollment.

**4403\* LIGHT AND OPTICS** *3 credit hours* 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 or PHYS 2025 and MATH 2215.

**4452\* ADVANCED LABORATORY** *2 credit hours* Experiments in heat, mechanics, optics, nuclear physics, and solid-state physics. Laboratory 6 hours. Prerequisite: Department permission.

**4481-3 ADVANCED TOPICS IN PHYSICS** *1-3 credit hours* This lecture-based course will focus on a topic or topics of current interest in physics. Lecture 1-3 hours. Prerequisite: PHYS 3003.

**4491-3 SPECIAL PROBLEMS IN PHYSICS** *1-3 credit hours* 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. Normally graded on S/U basis. Independent study 1-3 hours. Prerequisites: 10 hours of Physics and department permission.

**4541\* PHYSICS CAPSTONE** *1 credit hour* The course involves student preparation and presentation of original and/or library research topics. The course will also explore issues related to becoming a morally responsible scientist to ethical problem solving. Oral presentations and written reports are required. One scheduled presentation will be given outside of class time. Program assessment is also a component. Capstone/lecture 1 hour. Prerequisite: PHYS 2541 and Senior standing.

**PHYSICAL SCIENCE (PSCI)**

**1054\* GENERAL PHYSICAL SCIENCE** *4 credit hours* A lecture-demonstration course designed for students with a non-scientific background. The course attempts to integrate the various areas of physical science (physics, chemistry, astronomy and geology) into a comprehensible whole. This course is designed for non-science majors. Lecture/demonstration 4 hours. General Education, Physical Science.

\*Liberal arts & sciences course.

## DEPARTMENT OF COMMUNICATION

Chair—Christopher Keller, Professor  
 Professors: Jenkins, Walton  
 Associate Professors: Heflin, Zhao  
 Assistant Professors: Adams, Blublitz  
 Instructors: Collins

The [Department of Communication](#) offers programs leading to a Bachelor of Arts degree with a major in Communication and a Bachelor of Arts degree with a major in Journalism and Media Production.

### BACHELOR OF ARTS DEGREE MAJOR IN COMMUNICATION (140)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
 UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS  
 All Communication majors are required to keep a portfolio of their work. (See advisor for details.)
  - A. Required Core Courses (22 hours) COMM 2593, PBRL 3113, COMM 3313, COMM 3393, COMM 3633, COMM 4313, COMM 4673, COMM 4901
  - B. Tracks of Study (21 hours) Majors must choose one of the following tracks of study:
 

**Communication Studies** (12 hours must be taken in COMM; remaining 9 hours may come from COMM, PBRL, and JRMP.) COMM 1133, COMM 2143, COMM 2313, COMM 3113, COMM 3121-4, COMM 3353, COMM 3413, COMM 3643, COMM 3833, COMM 3991-3\*, COMM 4513, COMM 4623, COMM 4723, COMM 4991-3  
 \*Only 3 hours of COMM 3991-3 may be applied to degree.

**Public Relations** (12 hours must be taken in PBRL; remaining 9 hours may come from PBRL, COMM, and JRMP.) PBRL 3213, PBRL 3323, PBRL 3941-3\*, PBRL 4413, PBRL 4823, PBRL 4931-3, PBRL 4973  
 \*Only 3 hours of PBRL 3941-3 may be applied to degree.
- IV. MINOR REQUIREMENTS (18 hours)  
 Students may choose another track of study for a minor or may choose a minor in another discipline.
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE MAJOR IN JOURNALISM AND MEDIA PRODUCTION (141)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
 UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (45 hours)  
 All Journalism and Media Production majors are required to keep a portfolio of their work. (See advisor for details.)
  - A. Required Core Courses (24 hours) JRMP 1113, JRMP 1213, JRMP 1313, JRMP 2333, JRMP 2513, JRMP 3613, JRMP 3811-2 (5 hours), COMM 4901
  - B. JRMP Elective Courses (21 hours) JRMP 1123, JRMP 2243, JRMP 2323, JRMP 2623, JRMP 3223, JRMP 3363, JRMP 3423, JRMP 3523, JRMP 3533, JRMP 3633, JRMP

3721-3, JRMP 4233, JRMP 4353, JRMP 4413, JRMP 4433, JRMP 4643, JRMP 4653, JRMP 4721-3, JRMP 4823, COMM 2593, COMM 3713, PBRL 3113

#### IV. MINOR REQUIREMENTS (18 hours)

Students may choose another area of concentration for a minor or may choose a minor in another discipline.

#### V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION.

### COURSE DESCRIPTIONS COMMUNICATION (COMM)

**1113\* PRINCIPLES OF COMMUNICATION** 3 credit hours  
 Principles of Communication is an introductory course designed to acquaint students with the basic theories of human communication and provide a comprehensive look at the communication field. The course will deliver a summary overview of the interrelated components of communication, to include verbal communication, mass communication, organizational communication, intercultural communication and digital communication. Lecture, 3 hours. General Education, Communication.

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

**2143\* DEBATE** 3 credit hours  
 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 credit hours  
 A systems based approach to the study of group communication. Social bases of group development and dynamics, including norms, leadership, role structures, conflict, and social climates. Special consideration given to methods of group participation and decision-making. Lecture 3 hours.

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

**3113\* ARGUMENTATION AND ADVOCACY** 3 credit hours  
 Acquaints students with forms and methods of argument construction. Emphasis is placed on the nature of argumentative controversies with application to such contexts as policy making, organizational decision-making, political rhetoric, and personal inquiry. The primary goal of the course is to help students become better producers and consumers of arguments as they appear in the public sphere. Lecture 3 hours.

**3121-4 FORENSIC LAB** 1-4 credit hours  
 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. Laboratory 1-4 hours. Prerequisite: Departmental permission.

**3313\* ADVANCED BUSINESS AND PROFESSIONAL SPEAKING** 3 credit hours  
 Emphasis is placed on both theory and application of public speaking, speech criticism, and listening skills in culturally diverse business and professional settings. Students will employ presentation software when delivering a variety of business presentations such as informative, after dinner,

persuasive, sales, and team speeches. Lecture 3 hours. Prerequisite: COMM 1113 or departmental permission.

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

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

**3413\* GENDER COMMUNICATION** *3 credit hours* An examination of current theory and research on gender communication. Focuses attention on the relationship between communication and gender, including symbolic, social, and nonverbal dimensions. Topics include language attitudes, communication styles, gender identity construction, and relationship dynamics. Lecture 3 hours.

**3633\* PERSUASION** *3 credit hours* 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 credit hours* 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.

**3833\* CONFLICT MANAGEMENT** *3 credit hours* An analysis of conflict situations in personal, professional, and cultural contexts. Role of communication in creating, expressing, and influencing conflict messages and behaviors. Topics include theories of conflict, cooperative processes, dialogue, mediation, interpersonal barriers and power. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

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

**4313\* INTERCULTURAL COMMUNICATION** *3 credit hours* Development of a multicultural perspective to communication processes. Designed to broaden students' awareness of human diversity and foster better understanding among individuals and groups from different cultural experiences. Topics include worldviews, cross-cultural conflict, majority/minority relationships, identity development, and prejudices. Lecture 3 hours. Prerequisite: Junior standing.

**4513\* LANGUAGE AND SOCIAL INTERACTION** *3 credit hours* The study of symbolic processes, meaning construction, and relationships between thought and language. Topics include symbolic interactionism, dramatism, narrative, and social constructionism. Lecture 3 hours.

**4623\* COMMUNICATION THEORY** *3 credit hours* An advanced survey of major philosophical and theoretical issues in human communication research. Discussion of social scientific and humanistic perspectives, research methods, and theory development. Analysis and critique of contemporary theories in the field. Lecture 3 hours. Prerequisites: 12 hours of communication coursework and Junior standing.

**4673\* CORPORATE & ORGANIZATIONAL COMMUNICATION** *3 credit hours* The theory and function of communication within businesses, government, hospitals, schools, industrial firms, and other organizations with emphasis on concepts and principles needed for effective communication. Lecture 3 hours.

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

**4901\* COMMUNICATION CAPSTONE** *1 credit hour* This course provides an overview of the major concepts in communication with an emphasis on the integration of four primary communication tracks: Journalism, Public Relations and Organizational Communication, Radio-Television, and Speech Communication. The course will also cover career options and graduate education in communication and related fields. Communication program assessment is a component of the course. Communication majors are required to take this course during their senior year. Capstone/lecture 1 hour. Prerequisites: Student must be a communication major, have taken COMM 1113, COMM 3393, COMM 4673 or PBRL 3113, RTV 1013, and JOUR 2113. Student must have completed at least 18 credit hours of communication coursework.

**4991-3\* SPECIAL TOPICS** *1-3 credit hours* Directed individual or group study of selected topic(s) in communication. The course may be repeated. Independent study/directed readings 1-3 hours.

### **JOURNALISM (JOUR)**

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

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

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

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

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

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

### **JOURNALISM & MEDIA PRODUCTION (JRMP)**

**1113\* INTRODUCTION TO MASS MEDIA** *3 credit hours* The purpose of this introductory class is to look at the various components of the mass communication industry with special emphasis in convergent mass media: the press, broadcast journalism, digital and social media and the internet. Mass media plays a significant role in our daily lives: this course will survey these interwoven components, including the technical aspects, history, legal and social issues and future ramifications. Lecture 3 hours.

**1123 MEDIA PERFORMANCE** *3 credit hours* A course designed to meet the specific needs of the broadcast and web-based performer; instruction includes drills to develop effective vocal communications as a means of improving audio and video delivery. Lecture 2 hours, laboratory 3 hours.

**1213\* VISUAL MEDIA PRODUCTION** *3 credit hours* The purpose of this class is to look at the various components of media graphics including photojournalism and layout design with emphasis on the use of software Photoshop and InDesign. Lecture 3 hours.

**1313\* AUDIO AND VISUAL PRODUCTION** *3 credit hours* Introduction to principles and techniques of audio and video production in radio, television, and on-line applications. Lecture 2 hours, laboratory 3 hours.

**2243\* PHOTOJOURNALISM I** *3 credit hours* The study of the principles and techniques of photography with an emphasis on composition and design. Students will learn scanning software and image editing software. Lecture 3 hours.

**2323\* RADIO PRODUCTION** *3 credit hours* A look at the equipment in radio studios and its uses in editing, production and creating programs. Lecture 3 hours, laboratory 2 hours. Co-requisite: JRMP 2323.

**2323L\* RADIO PRODUCTION LAB** *0 credit hours* A look at the equipment in radio studios and its uses in editing, production and creating programs. Lecture 3 hours, laboratory 2 hours. Co-requisite: JRMP 2323L.

**2333\* TV STUDIO PRODUCTION** *3 credit hours* An introduction to the basic principles, procedures, and techniques of television studio production. The course includes video control, operation of cameras and editing machines, lighting, staging and directing, on-camera announcing and interviewing. Lecture 2 hours, laboratory 3 hours. Prerequisite: JRMP 1313. Co-requisite: JRMP 2333L.

**2333L\* TV STUDIO PRODUCTION LAB** *0 credit hours* An introduction to the basic principles, procedures, and techniques of television studio production. The course includes video control, operation of cameras and editing machines, lighting, staging and directing, on-camera announcing and interviewing. Lecture 2 hours, laboratory 3 hours. Prerequisite: JRMP 1313. Co-requisite: JRMP 2333.

**2513\* WRITING FOR MASS MEDIA** *3 credit hours* This course will introduce students to the various strategies and styles of writing for mass media organizations that find themselves converging into multiple media institutions. Lecture 3 hours.

**2623\* VISUAL COMMUNICATION** *3 credit hours* This course is an exploration into why some images are remembered while most are not. This course will explore how we see, why we see, the ethics of what we see, and equip students with a vocabulary for analyzing visual messages. The study of visual communication will change the way a student sees the world. Lecture 3 hours.

**3223\* LAYOUT AND DESIGN** *3 credit hours* Explores techniques, processes, and procedures for the publication of print media with an emphasis on the elements of design using the pagination program InDesign and the image editing software Adobe Photoshop. Lecture 3 hours.

**3343\* VIDEO FIELD PRODUCTION AND EDITING** *3 credit hours* 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: JRMP 2333. Co-requisite: JRMP 3343L.

**3343L\* VIDEO FIELD PRODUCTION AND EDITING LAB** *3 credit hours* LAB: 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: JRMP 2333. Corequisite: JRMP 3343.

**3363 PRODUCING THE DOCUMENTARY** *3 credit hours* Preparation for the participation in all phases of documentary production. The course will function as a team process with students participating in one or many aspects of the production. May be repeated for a maximum of six hours. Laboratory 6 hours. Prerequisite: Instructor permission.

**3423\* BROADCAST NEWS** *3 credit hours* Theories and practices of broadcast news gathering, writing, delivery, and ethics to develop professional attitude and skills in broadcast and internet news. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**3523\* FEATURES, COLUMNS, and REVIEWS** *3 credit hours* The purpose of this course is to understand and practice writing news content while accounting for current changes and developments in mass media. This class will emphasize writing from the basis of craft, and we will examine newswriting style and develop writing skills specific to subjective, creative newswriting forms (features, columns, and reviews). Students will learn how to write across newswriting genres while adhering to ethical journalistic standards as dictated in the Society of Professional Journalists' Code of Ethics. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**3533\* BROADCAST WRITING** *3 credit hours* Concept and practices of writing for radio and television. Emphasis on writing news, commercials, and long-form scripts. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**3613\* MEDIA LITERACY** *3 credit hours* The purpose of this class is to look at the various components of the mass media industry with special emphasis on Media Literacy and the impact of Media Literacy on our culture. This course provides a theoretical

underpinning and critical analysis to the Journalism and Media Production curriculum. The course is grounded in media theory which espouses the use of literacy education and criticism to analyze mass media effects on society. Lecture 3 hours. Prerequisites: JRMP 1113 and JRMP 2513.

**3623\* BROADCAST PROGRAMS AND RATINGS 3 credit hours** 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.

**3633\* SOCIAL MEDIA THEORY 3 credit hours** Social Media Theory is the study of the development, impact and significance of social mass media technologies. Students study new social media, develop an analysis model to examine emergent social media, research current social media uses and present findings to their peers. Lecture 3 hours.

**3721-3 WORKSHOP 1-3 credit hours** Workshop designed to give intensive emphasis to a specific area of media. May be repeated with a different topic for additional credit up to a maximum of six hours. Journalism and Media Production majors may count only three hours of workshops towards their degree. Workshop, 1-3 hours.

**3811-2 MEDIA PRACTICUM 1-2 credit hours** Participation in all aspects media: radio, television; print on-line. Practicum, 1-2 hours. Prerequisite: Sophomore standing.

**4153\* MEDIA HISTORY 3 credit hours** Background and development of the early press. Emergence of the partisan press. Evolution of personal and independent journalism. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4233\* GRAPHICS FOR VIDEO PRODUCTION 3 credit hours** An examination of the principles, procedures, and techniques used in creating graphics for video production. While special emphasis is placed on graphics creation for the television medium, students will explore the use of graphics for non-broadcast applications such as distance or adaptive learning. Lecture 2 hours, laboratory 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4213\* PHOTOJOURNALISM II 3 credit hours** The continued study of the principles of photography with an emphasis on composition and design. Students will continue to employ digital darkroom techniques in coordination with various modes of expression: print, video and online. Lecture 3 hours. Prerequisite: JRMP 2243 or instructor's permission.

**4353\* CORPORATE VIDEO 3 credit hours** 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: JRMP 1313.

**4413 NEWS EDITING 3 credit hours** Study of editing, both practical and theoretical, in the media field. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4433\* ONLINE JOURNALISM 3 credit hours** Adapting works for the Internet, incorporating style and format changes to accommodate online audiences. Writing assignments for news and marketing content. Examination of the elements of print and broadcast writing styles that contributes to online content. This course is a thorough review of the differences and similarities that mark the era of media convergence in journalism. Lecture 3 hours.

**4643\* MEDIA LAW 3 credit hours** 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: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4653\* MEDIA MANAGEMENT 3 credit hours** Investigation into various print and broadcast media management functions, sales, network and labor relations, internal organizational structures, operating procedures and government regulations. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4721-3\* SPECIAL TOPICS 1-3 credit hours** Directed individual or group study of selected topic(s) in broadcasting or journalism. The course may be repeated. Lecture 1-3 hours.

**4823 MEDIA INTERNSHIP 3 credit hours** Supervised work experience in a professional setting which relates to the student's career objectives. The internship will allow practical experience in a broadcast or journalism area. May be repeated for a maximum of six hours. Internship 3 hours. Prerequisites: Upper division standing and department permission.

### **PUBLIC RELATIONS (PBRL)**

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

**3213\* PUBLIC RELATIONS WRITING AND PRODUCTION 3 credit hours** Study and application of current trends and best practices in public relations. Includes instruction in communication methods and tactics, with emphasis on the production and dissemination of strategic communication messages. Lecture 3 hours. Prerequisites: JOUR 3013 and PBRL 3113.

**3323\* STRATEGIC CAMPAIGN COMMUNICATION 3 credit hours** This course explores the planning, preparation and presentation of strategic communication campaigns. Emphasis on developing and integrating theories and strategies for campaign communication. Analysis and critique of public relations campaigns. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**3941-3 WORKSHOP 1-3 credit hours** Public relations workshop designed to give intensive emphasis to a specific area of the profession. May be repeated with a different topic for a total of 6 credit hours. Workshop 1-3 hours.

**4413\* PUBLIC RELATIONS ETHICS 3 credit hours** This course explores the nature of public relations from an ethical and philosophical perspective, including ethical decision making in public relations, truth telling, objectivity, and the justification of persuasion use in the marketplace of ideas. Themes of responsible advocacy and representation in the "Courts of Public Opinion" will underscore the course. Lecture 3 hours. Prerequisite: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4823 CASE STUDIES IN PUBLIC RELATIONS 3 credit hours** 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: Students must be English Composition I eligible (i.e., have no English deficiencies).

**4931-3\* SPECIAL TOPICS** *1-3 credit hours* Directed individual or group study of selected topic(s) in public relations. Course may be repeated.

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

### **RADIO/TELEVISION (RTV)**

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

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

\*Liberal arts and sciences course.

## DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES

Chair—John Hodgson, Associate Professor  
 Professors: Kingsley, Morris, Underwood  
 Associate Professors: Baillargeon, Carney, Hall, Liu  
 Assistant Professors: Clement, Gonzalez, McCormick, Tyrrell  
 Instructors: Chaffins, Cropp, Godwin, Goode, Honeycutt,  
 MacKenzie, Younger

The [Department of English and Foreign Languages](#) offers programs leading to a Bachelor of Arts degree with a major in English, a Bachelor of Arts degree with a major in English Education, and a Bachelor of Arts degree with a major in International Languages. The department also offers minors in Arabic, English, Foreign Languages, French, German, Latin, Professional Writing, and Spanish.

### BACHELOR OF ARTS DEGREE MAJOR IN ENGLISH (120)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (45 hours)
  - A. Required Core Courses (21 hours) PRWR 2013, ENGL 3003, ENGL 3113, ENGL 3303 or PRWR 3303, ENGL 3813, ENGL 4993 and one of the following: ENGL 3023, ENGL 3033, ENGL 3043, ENGL 3053, ENGL 3063 or ENGL 3073.
  - B. Options (24 hours) All English majors must complete either the Literature or Creative Writing option:
    - Literature Option**  
*Survey courses (6 hours):* Choose from the following: ENGL 3023, ENGL 3033, ENGL 3043, ENGL 3053, ENGL 3063, or ENGL 3073
    - Other required courses (9 hours):* ENGL 4023, and ENGL 4133 or ENGL 4143 or ENGL 4153, and ENGL 4613 or ENGL 4623 or ENGL 4633
    - Electives (9 hours):* 9 hours with no more than 6 hours of 1000 or 2000 level courses.
  - Creative Writing Option**  
*Required courses (15 hours):* ENGL 2333, and PRWR 3003 or PRWR 3013, and PRWR 3103 or PRWR 3203 or PRWR 3403, and PRWR 3991-3, and PRWR 4961-3.  
*Electives (9 hours):* 9 hours with no more than 6 hours of 1000 or 2000 level courses.
- IV. MINOR REQUIREMENTS (18 hours)  
Students desiring to enter the job market in such areas as technical writing, editing, public relations, and the like are urged to consider a minor in Journalism and Media Production or (except for those choosing the Creative Writing emphasis) Professional Writing.
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF ARTS DEGREE MAJOR IN ENGLISH EDUCATION (125)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)  
This program requires specific General Education courses in Behavioral Science—PSY 1113, and Humanities—3 hours chosen from: HIST 2113 or 2223 or PHIL 1113 and 3 hours chosen from: ART 1013, ART 2613, ART 2623, THTR 1103, FNAR 1013, MUSC 1013, MUSC 1023, MUSC 1033, or MUSC 1413.
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (74 hours)
  - A. Required Core Courses (41 hours) ENGL 3003, ENGL 3023, ENGL 3033, ENGL 3043, ENGL 3053, ENGL 3063, ENGL 3073, ENGL 3113, ENGL 3303, ENGL 4613, ENGL 4623, ENGL 4773, and English electives (5 hours).
  - B. Required Education Courses (33 hours) EDUC 1800, EDUC 3003, EDUC 3612\*, EDUC 3673, EDUC 3733, EDUC 3753(R), EDUC 4313(R), EDUC 4653(R), EDUC 4965\*(R), EDUC 4975\*(R), and SPED 3103.  
\*Should be taken in the professional semester  
(R)Restricted to students admitted to Teacher Education
- IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

English Education candidates must achieve a grade of C or better in all major courses (required core courses and required education courses) to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

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

#### Teacher Licensure/Certification

Student who complete the requirements for this degree and pass the state tests for certification in English Education will be eligible to apply for a standard teaching license.

### BACHELOR OF ARTS DEGREE MAJOR IN INTERNATIONAL LANGUAGES (185)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS\* (45 hours)  
\*21 hours must be upper division.
  - A. Primary Language (24 hours)  
Arabic, French, German, Latin or Spanish
  - B. Secondary Language (12 hours)  
Arabic, Chinese, French, German, Italian, Latin, Russian, or Spanish
  - C. Language Electives (6 hours)  
Choose from courses in the following prefixes: ALBN, ARBC, CHNS, CLSC, CMCH, CTLN, DARI, DTCH, FREN, GERM, ITAL, LANG, LATN, PHTO, PORT, PRSN, PLSH, ROMN, RUSN, SPAN, SMLI, SWLI, or TURK
  - D. Linguistics (3 hours)  
LING 4113

**IV. MINOR REQUIREMENTS (18 hours)**

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

**V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION****COURSE DESCRIPTIONS****ALBANIAN (ALBN)**

**4153\* INTENSIVE STUDIES IN ALBANIAN** *3 credit hours* An intensive introductory study of Albanian combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours study of another foreign language or permission of the department.

**ARABIC (ARBC)**

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

**1223\* BEGINNING MODERN STANDARD ARABIC II** *3 credit hours* Continuation of ARBC 1113. Lecture 3 hours. Prerequisite: ARBC 1113 or equivalent. General Education, Humanities – Diversity.

**2113\* INTERMEDIATE MODERN STANDARD ARABIC I** *3 credit hours* An intermediate course in the language and culture of the Arabic-speaking countries. Lecture 3 hours. Prerequisite: ARBC 1223 or equivalent.

**2223\* INTERMEDIATE MODERN STANDARD ARABIC II** *3 credit hours* Continuation of ARBC 2113. Lecture 3 hours. Prerequisite: ARBC 2113 or the equivalent.

**3113\* ADVANCED MODERN STANDARD ARABIC I** *3 credit hours* An advanced course in the language and culture of the Arabic-speaking countries. Lecture 3 hours. Prerequisite: ARBC 2223 or the equivalent.

**3223\* ADVANCED MODERN STANDARD ARABIC II** *3 credit hours* A continuation of ARBC 3113. Lecture 3 hours. Prerequisite: ARBC 3113 or equivalent.

**4961-3\* DIRECTED READINGS IN MODERN STANDARD ARABIC** *1-3 credit hours* This course provides an opportunity for students to work on individualized topics in Arabic language, linguistics, and literature. Course may be repeated to a total of six hours with departmental permission. Independent study/directed readings 1-3 hours. Prerequisite: ARBC 3223 or equivalent.

**CATALAN (CTLN)**

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

**CHINESE (CHNS)**

**1113\* BEGINNING CHINESE (MANDARIN) I** *3 credit hours* An introductory course in the language and culture of the People's Republic of China. Lecture 3 hours. General Education, Humanities–Diversity.

**1223\* BEGINNING CHINESE (MANDARIN) II** *3 credit hours* Continuation of Chinese (Mandarin) CHNS 1113. Lecture 3 hours. Prerequisite: CHNS 1113. General Education, Humanities–Diversity.

**2113\* INTERMEDIATE CHINESE I** *3 credit hours* An intermediate-level course in Chinese (Mandarin). Lecture 3 hours. Prerequisite: CHNS 1223 or equivalent.

**2223\* INTERMEDIATE CHINESE II** *3 credit hours* Continuation of CHNS 2113. Lecture 3 hours. Prerequisite: CHNS 2113 or equivalent.

**CLASSICS (CLSC)**

**4153\* WOMEN IN ANCIENT ROME** *3 credit hours* Course provides an introduction to the lives of women and the roles that women played in everyday life both in ancient Rome and in the Roman provinces. Texts studied will provide insight into the attitudes of early Roman writers towards women and women's roles. Lecture 3 hours.

**4163\* ROMAN MYTHOLOGY** *3 credit hours* This course provides an introduction to the content of Roman mythology, to the role of myths in literature and art, and to modern ways of interpreting and using myths. Lecture 3 hours.

**4171-3\* SPECIAL TOPICS IN CLASSICS** *1-3 credit hours* Directed individual or group study of selected topics or problems in Classics. Areas of study will vary from semester to semester. The course may be repeated for a total of 6 hours with departmental permission. Independent study/directed readings 1-3 hours.

**COMANCHE LANGUAGE (CMCH)**

**1113\* COMANCHE LANGUAGE I** *3 credit hours* An introductory course in the language and culture of the Comanche people. Lecture 3 hours.

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

**DARI (DARI)**

**4153\* INTENSIVE STUDIES IN DARI I** *3 credit hours* An intensive introductory study of Dari combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours of study of another foreign language or permission of the department.

**4163\* INTENSIVE STUDIES IN DARI II** *3 credit hours* Continuation of DARI 4153. Two hours independent study, one hour lab. Prerequisite: DARI 4153.

**DUTCH (DTCH)**

**4153\* INTENSIVE STUDIES IN DUTCH** *3 credit hours* An intensive introductory study of Dutch combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours of study of another Germanic language or permission of the department.

**ENGLISH (ENGL)**

**0103 BASIC COMPOSITION SKILLS** *Developmental course, no credit* Introduces students to and provides practice in reading, writing, and interpretation. Intended for students whose experiences as writers have not prepared them for ENGL 0113. Attention to the development of language skills is integrated into the course's primary emphasis upon essay writing. Required for entering students who score below 16 on the ACT English test and for adult students who score below 65 on the CPT Sentence Skills test. Individual conferences are arranged as needed. Does not satisfy degree requirement for any degree program at Cameron University. Lecture 3 hours.

**0111 COLLEGE WRITING SKILLS** *Developmental course, no credit* Supplemental instruction in college writing skills under

direction of Writing Center staff. Students must be concurrently enrolled in ENGL 0103 Basic Composition Skills or ENGL 0113 Developmental Writing. Does not satisfy any degree requirement for any degree program at Cameron University. Lecture 1 hour.

**0113 DEVELOPMENTAL WRITING** *Developmental course, no credit* Provides practice in reading, writing and interpretation for students whose experiences as writers have not prepared them for ENGL 1113. Attention to the development of language skills is integrated into the course's primary emphasis on essay writing. Required for entering students who score greater than 15 but less than 19 on the ACT English test and for adult students who score greater than 64 but less than 96 on the CPT Sentence Skills test. Individual conferences are arranged as needed. Does not satisfy any degree requirement for any degree program at Cameron University. Lecture 3 hours.

**0403 ENGLISH FOR ACADEMIC PURPOSES I** *Developmental course, no credit* This course is designed to prepare intermediate-level ESL students for academic reading/writing and listening/speaking tasks in college. Attention to the development of language skills is integrated into the course's emphasis upon writing paragraphs and short essays. May be used as an alternative to ENGL 0103 by students for whom English is a foreign language and who score below a 16 on the English ACT test or below 65 on the CPT Sentence Skills Test. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 3 hours.

**0413 ENGLISH FOR ACADEMIC PURPOSES II** *Developmental course, no credit* This course is designed to prepare high-intermediate and advanced ESL students for higher level academic reading/writing and listening/speaking tasks in college. Attention to the development of language skills is integrated into the course's emphasis upon essay writing. May be used as an alternative to ENGL 0113 by students for whom English is a foreign language and who score above 15 but below 19 on the English ACT test or above 64 but below 96 on the CPT Sentence Skills Test. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 3 hours.

**0512 SUPPLEMENTAL WRITING INSTRUCTION** *Developmental course, no credit* Writing tutorial providing remediation and support for those students who are enrolled in ENGL 1113, but whose test scores and prior course work do not indicate preparedness for college-level writing classes. Required for students enrolled in ENGL 1113 who score less than 19 on the ACT English test or less than 96 on the CPT Sentence Skills test and have not completed ENGL 0113. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 2 hours. Co-requisite: ENGL 1113.

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

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

**1213\* ENGLISH COMPOSITION II** *3 credit hours* Continued training and practice in composition with an emphasis on

argumentation. Critical and logical thinking will be developed through the interpretation of a range of texts and through the composition of a series of argumentative essays, at least one of which will be a research paper that uses MLA style. Lecture 3 hours. Prerequisite: ENGL 1113 or ENGL 1123. General Education, Communication.

**1223\* HONORS COMPOSITION II** *3 credit hours* Reading and discussion of short stories, poetry, drama, and novels as an introduction to literary appreciation. Emphasis on written critical analysis of specific works. Lecture 3 hours. Prerequisite: ENGL 1123 or a grade of "A" in ENGL 1113 or instructor permission.

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

**2053\* FILM AS LITERATURE** *3 credit hours* 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. General Education, Humanities–Aesthetics.

**2313\* AFRICAN AMERICAN LITERATURE** *3 credit hours* A survey of writings by African American authors from Colonial times to the present. Lecture 3 hours. General Education, Humanities–Aesthetics and Humanities–Diversity.

**2323\* AMERICAN INDIAN LITERATURE** *3 credit hours* 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. General Education, Humanities–Aesthetics and Humanities–Diversity.

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

**2343\* WOMEN IN LITERATURE** *3 credit hours* Historical and analytical exploration of the images of women in literature, with emphasis on women writers. Lecture 3 hours. General Education, Humanities–Aesthetics and Humanities–Diversity.

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

**2980-3\* SELECTED TOPICS IN LANGUAGE ARTS** *0-3 credit hours* 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. Independent study/directed readings 0-3 hours. Prerequisites: As listed for each separate offering, and/or department permission.

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Completion of ENGL 1213 English Composition II and junior standing or permission of Department of English is required for enrollment in classes numbered 3000 or above.

**3003\* INTRODUCTION TO LITERARY STUDIES** *3 credit hours* Prepares students for upper division literature courses by

introducing them to the terms, critical skills, and literary concepts useful for advanced literary study. Lecture 3 hours.

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

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

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

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

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

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

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

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

**3663\* TEACHING READING IN SECONDARY SCHOOLS** *3 credit hours* A course focusing on teaching reading processes in secondary schools. This course will assist students in: 1) selecting literature and understanding adolescent readers; 2) planning and pedagogy for literature study for all students; 3) using research-based ideas and best practices in reading to engage students in deeper literacy; 4) using reading processes to teach students about social justice, diversity, and equity; and 5) close reading strategies in the classroom. Lecture 3 hours. Prerequisite: ENGL 1213 with a grade of C or better; admission to Teacher Education or Departmental approval.

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

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

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

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

drama, and others. May be repeated to a total of 6 hours. Lecture 3 hours.

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

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

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

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

**4613\* ENGLISH LINGUISTICS** *3 credit hours* 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 credit hours* A review of formal English grammar; improvement and practice in functional grammar and usage. Lecture 3 hours.

**4633\* RHETORIC: THEORY AND APPLICATION** *3 credit hours* A study of traditional and current rhetorical theories with applications for teachers and writers. Consideration is given to discovery of ideas, organization of materials, style, rhetorical stance, and audience analysis. Lecture 3 hours.

**4643\* OLD AND MIDDLE ENGLISH** *3 credit hours* A study of Old and Middle English, with readings in prose and poetry. Lecture 3 hours. Prerequisite: ENGL 4613 or permission of the department.

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

**4961-3\* DIRECTED READINGS IN ENGLISH** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: permission of the Chair.

**4983 WRITING INTERNSHIP** *3 credit hours* Field experience in writing under close supervision of a field-based supervisor and professor. May be repeated once. Internship/field experience 3 hours. Prerequisites: 12 hours of writing courses not including ENGL 1113 or 1213 and permission of the chair.

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

### **FRENCH (FREN)**

**1113\* BEGINNING FRENCH I** *3 credit hours* An introductory course in the language and culture of French-speaking countries. Lecture 3 hours. General Education, Humanities–Diversity.

**1223\* BEGINNING FRENCH II** *3 credit hours* Continuation of FREN 1113. Lecture 3 hours. Prerequisite: FREN 1113 or equivalent. General Education, Humanities–Diversity.

**2113\* INTERMEDIATE FRENCH I** *3 credit hours* 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 credit hours* Continuation of FREN 2113. Lecture 3 hours. Prerequisite: FREN 2113 or the equivalent.

**3113\* FRENCH GRAMMAR AND LINGUISTICS** *3 credit hours* A systematic review of French grammar and the cultivation of facility in reading French newspapers, magazines, and books, with additional emphasis on improving the student's control of spoken French. Lecture 3 hours. Prerequisite: FREN 2223 or equivalent.

**3123\* FRENCH CULTURE** *3 credit hours* A systematic review of French culture. Conducted in French. Lecture: 3 hours. Prerequisite: FREN 2223 or equivalent.

**3133\* FRENCH COMPOSITION** *3 credit hours* A systematic review of French grammar, with a view toward improving the student's control of written French. Conducted in French. Lecture 3 hours. Prerequisites: FREN 2113 and 2223.

**3143\* FRENCH CONVERSATION** *3 credit hours* Total emphasis on improving the student's control of spoken French, with a special emphasis on idiomatic French. Conducted in French. Lecture 3 hours. Prerequisites: FREN 2113 and 2223.

**4113\* L'HISTOIRE DE FRANCE** *3 credit hours* 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 credit hours* 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 credit hours* 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 credit hours* 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 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: FREN 4143 or equivalent.

### **GERMAN (GERM)**

**1113\* BEGINNING GERMAN I** *3 credit hours* An introductory course in the language and culture of German-speaking countries. Lecture 3 hours. General Education, Humanities–Diversity.

**1223\* BEGINNING GERMAN II** *3 credit hours* Continuation of GERM 1113. Lecture 3 hours. Prerequisite: GERM 1113 or equivalent. General Education, Humanities–Diversity.

**2213\* INTERMEDIATE GERMAN I** *3 credit hours* An intermediate-level course in the German language, with emphasis on the more complex idiomatic, syntactic, and grammatical forms. Lecture 3 hours. Prerequisite: GERM 1223 or equivalent.

**2223\* INTERMEDIATE GERMAN II** *3 credit hours* Continuation of GERM 2213. Conducted largely in German. Lecture 3 hours. Prerequisite: GERM 2213 or equivalent.

**3013\* GERMAN GRAMMAR AND LINGUISTICS** *3 credit hours* A systematic review of German grammar; a study of the phonology, morphology, syntax, and semantics of modern Standard German. Lecture 3 hours. Prerequisite: GERM 2223 or equivalent.

**3043\* GERMAN CULTURE** *3 credit hours* A systematic review of German culture. Conducted in German. Lecture 3 hours. Prerequisite: GERM 3013 or equivalent.

**3113\* GERMAN COMPOSITION** *3 credit hours* Cultivation of the facility of writing in German. Conducted in German. Lecture 3 hours. Prerequisites: GERM 3013 and GERM 3043 or equivalent.

**3123\* GERMAN CONVERSATION** *3 credit hours* Cultivation of the facility of communicating in spoken German. Conducted in German. Lecture 3 hours. Prerequisites: GERM 3013 and GERM 3043 or equivalent.

**4961-3\* DIRECTED READINGS IN GERMAN** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: GERM 3123 or equivalent.

### **ITALIAN (ITAL)**

**1113\* BEGINNING ITALIAN I** *3 credit hours* An introductory course in the language and culture of Italy and other Italian-speaking areas. Lecture 3 hours. General Education, Humanities–Diversity.

**1223\* BEGINNING ITALIAN II** *3 credit hours* Continuation of ITAL 1113. Lecture 3 hours. Prerequisite: ITAL 1113 or equivalent. General Education, Humanities–Diversity.

**2113\* INTERMEDIATE ITALIAN I** *3 credit hours* An intermediate-level course in the Italian language. A review of grammar, writing, and speaking. Conducted in Italian. Lecture 3 hours. Prerequisite: ITAL 1223.

**2223\* INTERMEDIATE ITALIAN II** *3 credit hours* Continuation of ITAL 2113. Conducted in Italian. Lecture 3 hours. Prerequisite: ITAL 2113 or the equivalent.

**4961-3\* DIRECTED READINGS IN ITALIAN** *1-3 credit hours* Provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 6 hours. Independent study/directed readings 1-3 hours. Prerequisite: ITAL 2223 or equivalent.

**LANGUAGE (LANG)**

**1001-3\* INTRODUCTORY LANGUAGE WORKSHOP** *1-3 credit hours* An introductory course that provides beginning study in a selected foreign language, often with a special focus such as survival Spanish or Arabic for military personnel. May be repeated to a total of six hours. Content varies. Lecture 1-3 hours.

**3991-3\* IMMERSION EXPERIENCE** *1-3 credit hours* Field experience under close supervision of a faculty member in which student gains language proficiency through an immersion in target language environment. Field experience 1-3 hours. Prerequisite: 12 hours study of target language or equivalent and department permission.

**4181-3\* SPECIAL TOPICS IN LANGUAGES** *1-3 credit hours* Directed individual or group study of selected topics in language. This course may be repeated up to a total of 6 hours credit with departmental permission. Independent study/directed readings 1-3 hours. Prerequisites: ENGL 1213 and 6 hours foreign language study or permission on instructor.

**LATIN (LATN)**

**1113\* BEGINNING LATIN I** *3 credit hours* An introductory course in understanding, speaking, reading, and writing Latin. Lecture 3 hours. General Education, Humanities–Diversity.

**1223\* BEGINNING LATIN II** *3 credit hours* Continuation of LATN 1113. Lecture 3 hours. Prerequisite: LATN 1113 or equivalent. General Education, Humanities–Diversity.

**2113\* INTERMEDIATE LATIN I** *3 credit hours* An intermediate-level course in Latin. A review of grammar, writing, and speaking. Lecture 3 hours. Prerequisite: LATN 1223 or equivalent.

**2223\* INTERMEDIATE LATIN II** *3 credit hours* Continuation of LATN 2113. Lecture 3 hours. Prerequisite: LATN 2113 or equivalent.

**3113\* ROMAN WRITERS I** *3 credit hours* Beginning study of various authors of Roman literature. Topics may include Roman prose, poetry, or drama. Lecture 3 hours. Prerequisite: LATN 2223 or equivalent.

**3223\* ROMAN WRITERS II** *3 credit hours* A continuation of LATN 3113. Topics may include Roman prose, poetry, or drama. Lecture 3 hours. Prerequisite: LATN 3113 or equivalent.

**4961-3\* DIRECTED READINGS IN LATIN** *1-3 credit hours* Intensive independent readings and research on a selected topic, writer, or movement in Latin literature or language under supervision of a faculty member. May be repeated to a total of 6 hours with departmental permission. Independent study/directed readings 1-3 hours. Prerequisite: LATN 3223 or equivalent.

**LINGUISTICS (LING)**

**4113\* GENERAL LINGUISTICS** *3 credit hours* A systematic review of linguistics to include grammar, phonology, morphology, syntax, and semantics of world languages. Lecture 3 hours. Prerequisites: Completion of primary and secondary language requirements or concurrent enrollment in final level.

**4163 TEACHING ENGLISH AS A SECOND LANGUAGE: THEORY AND METHODS** *3 credit hours* Introduction to theories of language acquisition and methods of instruction; practicum in applications of theories and methods. Lecture 3 hours. Prerequisites: 6 hours English Composition, 3 hours foreign language or instructor permission.

**4173 TEACHING FOREIGN LANGUAGES: THEORY AND METHODS** *3 credit hours* 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.

**PASHTO (PHTO)**

**4153\* INTENSIVE STUDIES IN PASHTO I** *3 credit hours* An intensive introductory study of Pashto combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisite: ENGL 1213 and six hours study of another foreign language or permission of the department.

**4163\* INTENSIVE STUDIES IN PASHTO II** *3 credit hours* Continuation of PHTO 4153. Two hours independent study, one hour lab. Prerequisite: PHTO 4153.

**PERSIAN (FARSI) (PRSN)**

**1113\* BEGINNING PERSIAN (FARSI) I** *3 credit hours* An introductory course in the language and cultures of Iran and Afghanistan. Lecture 3 hours.

**1223\* BEGINNING PERSIAN (FARSI) II** *3 credit hours* Continuation of PRSN 1113. Lecture 3 hours. Prerequisite: PRSN 1113 or equivalent.

**POLISH (PLSH)**

**4153\* INTENSIVE STUDIES IN POLISH** *3 credit hours* An intensive introductory study of Polish combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours study of another foreign language or permission of the department.

**PORTUGUESE (PORT)**

**4153\* INTENSIVE STUDIES IN PORTUGUESE** *3 credit hours* An intensive introductory study of Portuguese combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours study of another Romance language or permission of the department.

**4961-3\* DIRECTED READINGS IN PORTUGUESE** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: PORT 4153.

**PROFESSIONAL WRITING (PRWR)**

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

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

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

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

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

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

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

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

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

**4961-3\* DIRECTED WRITING** *1-3 credit hours* An individualized program of intensive independent writing with supplemental reading under the supervision of a qualified member of the faculty. May be repeated to a total of 6 hours. Independent study/directed readings 1-3 hours. Prerequisites: PRWR 2013 and junior standing or department permission.

### **ROMANIAN (ROMN)**

**4153\* INTENSIVE STUDIES IN ROMANIAN** *3 credit hours* An intensive introductory study of Romanian combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours study of another Romance language or permission of the department.

**4961-3\* DIRECTED READINGS IN ROMANIAN** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: ROMN 4153.

### **RUSSIAN (RUSN)**

**1113\* BEGINNING RUSSIAN I** *3 credit hours* An introductory course in the language and culture of the Russian Federation. Lecture 3 hours.

**1223\* BEGINNING RUSSIAN II** *3 credit hours* Continuation of RUSN 1113. Lecture 3 hours. Prerequisite: RUSN 1113 or equivalent. General Education, Humanities–Diversity.

**4961-3\* DIRECTED READINGS IN RUSSIAN** *1-3 credit hours* This course provides an opportunity for gifted and qualified students of Russian to work with an instructor on individualized topics in Russian language, linguistics, and literature. Course may be repeated to a total of six hours with departmental permission. Independent study/directed readings 1-3 hours. Prerequisite: RUSN 1223 or equivalent.

### **SOMALI (SMLI)**

**4153\* INTENSIVE STUDIES IN SOMALI I** *3 credit hours* An intensive introductory study of Somali combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours study of another foreign language or permission of the department.

**4163\* INTENSIVE STUDIES IN SOMALI II** *3 credit hours* Continuation of SMLI 4153. Two hours independent study, one hour lab. Prerequisite: SMLI 4153.

### **SPANISH (SPAN)**

**1113\* BEGINNING SPANISH I** *3 credit hours* An introductory course in the language and culture of Spanish-speaking countries. Lecture 3 hours. General Education, Humanities–Diversity.

**1223\* BEGINNING SPANISH II** *3 credit hours* Continuation of SPAN 1113. Lecture 3 hours. Prerequisite: SPAN 1113 or equivalent. General Education, Humanities–Diversity.

**2113\* INTERMEDIATE SPANISH I** *3 credit hours* 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 credit hours* Continuation of SPAN 2113. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 2113.

**3113\* SPANISH GRAMMAR AND LINGUISTICS** *3 credit hours* A systematic review of Spanish grammar; a study of the phonology, morphology, syntax, and semantics of modern standard Spanish. Lecture 3 hours. Prerequisite: SPAN 2223 or equivalent.

**3123\* SPANISH CONVERSATION** *3 credit hours* Improving accent and rapidity of speech through speeches, presentations, impromptu dialogues. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 2223 or equivalent.

**3133\* SPANISH CULTURE** *3 credit hours* 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. Prerequisites: SPAN 3113 and SPAN 3123 or equivalent.

**3143\* SPANISH COMPOSITION** *3 credit hours* Cultivation of facility in writing Spanish. Planned and impromptu compositions. Lecture 3 hours. Prerequisites: SPAN 3113 and SPAN 3123 or equivalent.

**3213\* ADVANCED SPANISH GRAMMAR AND LINGUISTICS** *3 credit hours* An expansion and refinement of complex structures including nuances of the language not addressed in SPAN 3113 which may include archaic and literary tenses, special verb forms for indirect discourse, infrequently used compound tenses, advanced vocabulary, and expanded use of the subjunctive mood. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3113 or equivalent.

**3223\* ADVANCED SPANISH CONVERSATION** *3 credit hours* Provides additional training in oral mastery of the Spanish language. Focuses on the automation of spoken language in all tenses/moods. Aims to achieve command of idiomatic expressions and advanced vocabulary. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3123 or equivalent.

**4113\* LA HISTORIA DEL MUNDO HISPANICO** *3 credit hours* 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 credit hours* 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 3143.

**4133\* ESPANA EN SU LITERATURA II** *3 credit hours* 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 credit hours* 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 3143.

**4153\* HISPANOAMERICA EN SU LITERATURA II** *3 credit hours* 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 credit hours* 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. Prerequisite: SPAN 3143.

**4961-3\* DIRECTED READING IN SPANISH** *1-3 credit hours* 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. Independent study/directed readings 1-3 hours. Prerequisite: SPAN 4143 or equivalent.

### **SWAHILI (SWLI)**

**1113\* BEGINNING SWAHILI I** *3 credit hours* An introductory course in the major language and the cultures of East Africa. Lecture 3 hours.

**1223\* BEGINNING SWAHILI II** *3 credit hours* Continuation of SWLI 1113. Lecture 3 hours. Prerequisite: SWLI 1113 or equivalent.

### **TURKISH (TURK)**

**4153\* INTENSIVE STUDIES IN TURKISH I** *3 credit hours* An intensive introductory study of Turkish combining guided independent study of the written language with regular oral practice of the spoken language. Two hours independent study, one hour lab. Prerequisites: ENGL 1213 and six hours study of another foreign language or permission of the department.

**4163\* INTENSIVE STUDIES IN TURKISH II** *3 credit hours* Continuation of TURK 4153. Two hours independent study, one hour lab. Prerequisite: TURK 4153.

\*Liberal arts and sciences course.

## DEPARTMENT OF MATHEMATICAL SCIENCES

Chair–Narayan Thapa, Associate Professor

Professors: Argyros, McArthur, Oty

Associate Professor: Herring, Li

Assistant Professors: Budhathoki, Dover, Kadel

Instructors: Castelli, Christensen, Corriette, Streck, Wyatt

The [Department of Mathematical Sciences](#) offers programs in mathematics, one of the oldest academic disciplines, as well as in statistics. The Department offers programs leading to a Bachelor of Arts degree with a major in Mathematics. Minors are also offered in mathematics and statistics. Mathematics and statistics are fundamental to a wide variety of fields and careers. Students who major or minor in mathematics have problem-solving and logic skills that are highly desired by employers in industry and government. Statistics is instrumental in the study of the behavioral and social sciences, the biological and physical sciences, and business.

### BACHELOR OF ARTS DEGREE MAJOR IN MATHEMATICS (150)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR REQUIREMENTS (42 hours)
  - A. Required Core Courses (33 hours) MATH 2215, MATH 2235, MATH 2244, MATH 2613, MATH 3013, MATH 3213, MATH 3253, MATH 4483, MATH 4782, MATH 4792
  - B. Required Technology Courses (3 hours) MATH 1001 (1 hour) and MATH 3001 (2 hours)
  - C. Electives (6 hours) Electives must be chosen from the following list: MATH 3302, MATH 3333, MATH 3413, MATH 4113, MATH 4423, MATH 4471-3, MATH 4491-3, STAT 3113, STAT 3123
- IV. MINOR REQUIREMENTS (18 hours)
- V. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION

### COURSE DESCRIPTIONS MATHEMATICS (MATH)

**0013 PRE-ALGEBRA** *Developmental course, no credit* This course provides a solid foundation in whole and signed number operations, fractions, decimals and percent. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Lecture 3 hours.

**0103 BEGINNING ALGEBRA** *Developmental course, no credit* This course is an introduction to algebra. Topics covered include introduction to the real number system, solving and graphing linear equations and inequalities, arithmetic operations using polynomials, factoring, and simplifying rational expressions. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Lecture 3 hours. Prerequisite: MATH 0013 or satisfactory placement score.

**0115 BEGINNING AND INTERMEDIATE ALGEBRA** *Developmental course, no credit* A combined beginning and intermediate algebra course. This course is designed for students who are able to cover the material in both beginning and intermediate algebra in one semester. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Lecture 5 hours. Prerequisite: MATH 0013 or satisfactory placement score.

**0121 BASIC MATH SKILLS** *Developmental course, no credit* This course is a supplemental developmental course providing an individualized plan of study to practice mathematical skills under the direction of the Mathematics Laboratory staff. Students who are enrolled in this course must be concurrently enrolled in MATH 0013, MATH 0103, MATH 0115, or MATH 0213. Does not satisfy any degree requirements for any degree program at Cameron University. Lecture 1 hour.

**0142 SUPPLEMENTAL SURVEY OF MATHEMATICS INSTRUCTION** *Developmental course, no credit* Remediation and support for students who are enrolled in MATH 1413, but whose test scores and prior coursework do not indicate preparedness for college-level mathematics classes. Recommended for students enrolled in MATH 1413 who score less than 19 on the ACT Mathematics test and have not completed MATH 0213. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 2 hours. Prerequisite: MATH 0103 or satisfactory placement score. Co-requisite: MATH 1413.

**0152 SUPPLEMENTAL COLLEGE ALGEBRA INSTRUCTION** *Developmental course, no credit* Remediation and support for students who are enrolled in MATH 1513, but whose test scores and prior coursework do not indicate preparedness for college-level mathematics classes. Recommended for students enrolled in MATH 1513 who score less than 19 on the ACT Mathematics test and have not completed MATH 0213. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 2 hours. Prerequisite: MATH 0103 or satisfactory placement score. Co-requisite: MATH 1513.

**0213 INTERMEDIATE ALGEBRA** *Developmental course, no credit* This course is designed to help students develop the skills needed for general education courses. Topics include radical and rational exponents, inequalities, quadratics, complex numbers, and an introduction to functions. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Lecture 3 hours. Prerequisite: MATH 0103 or satisfactory placement score.

**1001 TECHNOLOGY FOR MATHEMATICS** *1 credit hour* An introduction to technology used in the practice and teaching of mathematics. Topics will vary by semester. Course may be repeated for credit for different topics. Lecture 1 hour. Prerequisite: MATH 0213 or MATH 0115 or satisfactory placement score.

**1413\* SURVEY OF MATHEMATICS** *3 credit hours* A survey course in Mathematics designed to acquaint the student with the breadth and beauty of mathematics. Topics to be selected from set theory, logic, functions and relations, abstract algebraic systems, history of numeration systems, combinatorial analysis and probability, statistics, geometry and topology. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH

0213 or MATH 0115 or equivalent. General Education, Mathematics.

**1513\* COLLEGE ALGEBRA** 3 credit hours Topics covered are functions and graphs, including polynomial, rational, exponential and logarithmic; linear systems; matrices, and elementary sequences and series. Does not apply toward a minor or major in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 0213 or MATH 0115 or satisfactory placement score. General Education, Mathematics.

**1613\* PLANE TRIGONOMETRY** 3 credit hours The development, use and relations between circular and trigonometric functions; solutions of triangles; and application to practical problems throughout the course. Does not apply towards a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 1513 or satisfactory placement score. General Education, Mathematics.

Students with credit in mathematics courses numbered 2000 or above may not enroll in courses below 2000 without department approval.

**2215\* CALCULUS AND ANALYTIC GEOMETRY I** 5 credit hours Limits, derivatives with applications, the definite integral with applications. Lecture 5 hours. Prerequisites: MATH 1513 and 1613 or equivalent. General Education, Mathematics.

**2235\* CALCULUS AND ANALYTIC GEOMETRY II** 5 credit hours 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 credit hours Solid analytic geometry, partial differentiation, multiple integrals, functions of several variables, vector calculus. Lecture 4 hours. Prerequisite: MATH 2235.

**2353 MATHEMATICS FOR ELEMENTARY TEACHERS I** 3 credit hours A basic course in mathematics for elementary education majors. An introduction to problem solving, numeration systems, whole number properties, and current technologies and manipulatives that relate to elementary mathematics. Additionally, operations with whole numbers are developed. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: Completion of one math general education course.

**2363 MATHEMATICS FOR ELEMENTARY TEACHERS II** 3 credit hours An introduction to the structure of the real number system, functions, and probability and statistics for elementary education majors. Various manipulatives are used as teaching tools. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 2353 or department permission.

**2491-3 SELECTED TOPICS IN MATHEMATICS** 1-3 credit hours 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. Lecture 1-3 hours. Prerequisite: Permission of the department.

**2613\* FOUNDATIONS OF MATHEMATICS** 3 credit hours 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 credit hours An introductory course in calculus for the non-mathematics major covering the following topics: limits, derivatives, and integration of functions of one or more variables. Applications will be related to Business, Economics, and the Social Sciences. Does not apply towards a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 1513 or equivalent. General Education, Mathematics.

**3001 TECHNOLOGY FOR ADVANCED MATHEMATICS** 1 credit hour An introduction to software packages used in the practice and teaching of advanced mathematics. Topics will vary by semester. Course may be repeated for credit for different topics. Prerequisite: MATH 2215.

**3013 INTRODUCTORY LINEAR ALGEBRA** 3 credit hours 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 credit hours 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. Lecture 3 hours. Prerequisite: MATH 2613.

**3253 DIFFERENTIAL EQUATIONS** 3 credit hours 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 credit hours The historical development of mathematics. Lecture 2 hours. Prerequisite: MATH 2215.

**3333\* COLLEGE GEOMETRY** 3 credit hours A comprehensive course which includes topics from both Euclidean and non-Euclidean geometries. Lecture 3 hours. Prerequisite: MATH 2215.

**3343\* NUMERICAL ANALYSIS** 3 credit hours An introduction to elementary numerical analysis. Topics include analysis of errors, approximation of solutions to equations and systems of equations, interpolation, approximation of functions, numerical differentiation and integration, and approximation of solutions to ordinary differential equations. Experience with computer programming is highly recommended, but not required. Lecture 3 hours. Prerequisites: MATH 3253 and either MATH 3013 or MATH 4433.

**3373 ALGEBRA FOR TEACHERS** 3 credit hours A course in algebra specifically designed for teachers. Topics include integers, equations, functions, graphing, and applications of algebra. Does not apply towards a major or minor in mathematics. Lecture 3 hours. Prerequisite: EDUC 3003 and either MATH 2215 or MATH 2363.

**3383 GEOMETRY FOR TEACHERS** 3 credit hours A course in geometry specifically designed for education majors. Topics include constructions and geometric proofs as well as the study of geometric objects in two and three dimensions. Does not apply towards a major in mathematics or minor in mathematics. Lecture 3 hours. Prerequisite: EDUC 3003 and either MATH 2215 or MATH 2363.

**3413 DISCRETE MATHEMATICAL STRUCTURES** 3 credit hours An introduction to discrete mathematical structures. Topics include combinatorics, recursion, recurrence relations,

generating functions, and graph theory. Lecture 3 hours. Prerequisites: MATH 2235 and MATH 2613.

**4113 INTRODUCTION TO OPERATIONS RESEARCH** 3 credit hours An introductory treatment of some of the problems and techniques encountered in operations research. Topics include linear programming, network analysis, game theory, Markov chains, and analytical hierarchies. Lecture 3 hours. Prerequisite: MATH 2215 or 2713 or department permission.

**4423\* NUMBER THEORY** 3 credit hours Divisibility of integers, congruencies, quadratic residues, mathematical induction, distribution of primes, diophantine equations, numerical functions and continued fractions. Lecture 3 hours. Prerequisite: MATH 2613 or department permission.

**4433 MATRIX ALGEBRA** 3 credit hours Elementary operations with matrix algebra, determinants, inverse of a matrix, rank and equivalence, linear dependence, vector spaces and linear transformations, characteristic equations of a matrix; bilinear, quadratic and Hermitian forms. Lecture 3 hours. Prerequisite: MATH 2215 or department permission.

**4471-3 SEMINAR IN MATHEMATICS** 1-3 credit hours Group projects designed to meet special needs. May be repeated as often as desired with permission of the department chairman. Seminar 1-3 hours. Prerequisite: Departmental approval. Will count on major or minor only with department permission.

**4483 INTRODUCTION TO REAL ANALYSIS** 3 credit hours A study of the basic concepts of analysis, elementary set theory, the real numbers, sequences and series, functions of real variables, derivatives, and integrals. Lecture 3 hours. Prerequisites: MATH 2235 and 2613.

**4491-3 INDEPENDENT STUDY IN MATHEMATICS** 1-3 credit hours 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. Independent study/directed readings 1-3 hours. Prerequisite: Department permission.

**4773 TEACHING OF SECONDARY MATHEMATICS** 3 credit hours Various aspects of the pedagogy of teaching secondary mathematics courses will be explored. Lecture 3 hours. Prerequisite: Juniors or seniors who have been admitted to Teacher Education; MATH 2613, and one of MATH 3302, MATH 3333, MATH 3413, or MATH 4423.

**4782 MATHEMATICS CAPSTONE I** 2 credit hours This course serves to integrate the mathematics curriculum through a comprehensive survey of significant theorems within the field covering a wide spectrum of topics. Students will also begin working on a project to be submitted and presented in MATH 4792. Capstone/lecture 2 hours. Prerequisite: Departmental permission.

**4792 MATHEMATICS CAPSTONE II** 2 credit hours This course serves to further the professional development of the student, including topics on careers and graduate school. Students will also submit and present their project started in MATH 4782. Program assessment is also a component. Capstone/lecture 2 hours. Prerequisite: MATH 4782.

### **STATISTICS (STAT)**

**0152 SUPPLEMENTAL INTRODUCTION TO STATISTICS INSTRUCTION** *Developmental course, no credit* Remediation and support for students who are enrolled in STAT 1513, but whose test scores and prior coursework do not indicate preparedness for college-level mathematics classes. Recommended for students enrolled in STAT 1513 who score less than 19 on the ACT Mathematics test and have not completed MATH 0213. Does

not satisfy degree requirements for any degree program at Cameron University. Lecture 2 hours. Prerequisite: MATH 0103 or satisfactory placement score. Corequisite: STAT 1513.

**1513\* INTRODUCTION TO STATISTICS** 3 credit hours An introductory course in the techniques of experimental statistics including estimation and hypothesis testing. Does not apply towards a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 0213 or 0115 or equivalent. General Education, Mathematics.

**2013\* INTRODUCTORY PROBABILITY AND STATISTICS I** 3 credit hours 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 1413 or higher.

**2023 INTRODUCTORY PROBABILITY AND STATISTICS II** 3 credit hours A continuation of STAT 2013. 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 2013 or departmental permission.

**2613 BUSINESS STATISTICS** 3 credit hours An introduction to quantitative tools used in business analysis. Measures of central tendency, distributions, regression and correlation, and statistical inference, including confidence intervals and test of hypothesis are covered. Business applications will be emphasized. Lecture 3 hours. Prerequisite: MATH 1513 or higher.

**3113 MATHEMATICAL STATISTICS I** 3 credit hours 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 credit hours A continuation of STAT 3113. Sampling, interval estimation, tests of hypotheses, and regression and correlation. Lecture 3 hours. Prerequisite: STAT 3113.

\*Liberal arts and sciences course

## DEPARTMENT OF MILITARY SCIENCE

Chair-MAJ Seth G. Hall , Professor  
 Assistant Professor: MAJ Rodriguez  
 Senior Military Science Instructor: MSG Gibson  
 Military Science Instructors: CPT West

**Reserve Officers' Training Corps (ROTC) is a four year program designed to complement the student's major and minor fields of study by developing the skills required in a leader. There is no military obligation for non-ROTC scholarship students enrolled in freshman and sophomore level classes. Contracted cadets receive a subsistence allowance each month during the academic year. Students completing the Advanced Course apply for a commission as a second lieutenant in the Active Army, Army Reserve or Army National Guard. Students may apply for 4 year Army scholarships during their senior year in high school, or 3 and 2 year scholarships after they enroll in the University. Qualified students may apply for Airborne, Air Assault, and other military training conducted during the summer. Students who successfully complete the ROTC program will have their general education four-hour Health and Wellness requirement waived.**

### BASIC COURSE

#### MS I (Freshman Year)

MSL 1011 Foundations of Officership Lab .....	1 hour
MSL 1012 Foundations of Officership .....	2 hours
MSL 1021 Basic Leadership Lab.....	1 hour
MSL 1022 Basic Leadership.....	2 hours

#### MS II (Sophomore Year)

MSL 2011 Individual Leadership Lab.....	1 hour
MSL 2012 Individual Leadership Studies .....	2 hours
MSL 2021 Leadership and Teamwork Lab.....	1 hour
MSL 2022 Leadership and Teamwork .....	2 hours
MSL 2002-8 Leader's Training Course (Summer)...	2-8 hours

Students may receive Advanced Standing or placement credit for the Basic Course for prior active or reserve component duty in any service. Students may also receive partial placement credit if they completed 2 or more years of Junior ROTC (JROTC) in high school. The Professor of Military Science determines the credits given for JROTC experience.

Students with sophomore academic status may take MS I and MS II courses simultaneously. Students who have completed their sophomore year and seniors applying to graduate school may attend the Leader's Training Course (MSL 2002-8) if they are interested in qualifying for the Advanced Course.

### ADVANCED COURSE

#### MS III (Junior Year)

MSL 3011 Leadership and Problem Solving Lab.....	1 hour
MSL 3013 Leadership and Problem Solving.....	3 hours
MSL 3021 Leadership and Ethics Lab.....	1 hour
MSL 3023 Leadership and Ethics.....	3 hours

#### MS IV (Senior Year)

MSL 4004 Leader Development & Assessment Course (LDAC) (Summer).....	4 hours
MSL 4011 Leadership Challenges/Goal Setting Lab.....	1 hour
MSL 4013 Leadership Challenges and Goal Setting.....	3 hours
MSL 4021 Officership Lab .....	1 hour
MSL 4023 Officership .....	3 hours

Completion of the Basic Course, Leader's Training Course or placement credit for the Basic Course and approval from the Professor of Military Science are prerequisites for the Advanced Course. Candidates for a commission must also complete classes in U.S. Military History, Communication Skills, and Computer Literacy in addition to the University's General Education requirement.

### Scholarships

Scholarships are available for two, three and four year periods. Refer to the Financial Assistance section of the catalog or contact the Military Science Department for more information.

## COURSE DESCRIPTIONS

### MILITARY SCIENCE & LEADERSHIP (MSL)

#### Basic Course

The ROTC Basic Course provides an introduction to the purpose and history of the United States Army, training in fundamental military skills, principles of instructional techniques, classroom and practical training in leadership. Enrollment in Basic Course classes is open to all full-time students, male and female, regardless of intentions to continue in ROTC or to pursue a commission. There is no military obligation incurred for Basic Course attendance by non-ROTC scholarship students. Full academic credit is given for all ROTC basic courses. To qualify for enrollment in the Advanced Course, a student must complete 8 hours of Basic Course credit, through any of the following combinations: completion of all 1000 and 2000 level courses, placement credit received from the Professor of Military Science for prior military service or JROTC leadership experience, or completion of MSL 2002-8, Leader's Training Course. Students receive a subsistence allowance while attending the Leader's Training course (MSL 2002-8).

**1011 FOUNDATIONS OF OFFICERSHIP LAB 1 credit hour** Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); mandatory for "Contracted" cadets. Laboratory 1 hour. Prerequisite: Foundations of Officership (MSL 1012) or concurrent enrollment. MSL 1012 must be successfully completed before credit is given in this course.

**1012 FOUNDATIONS OF OFFICERSHIP 2 credit hours** Introduces students to issues and competencies that are central to a commissioned officer's responsibilities. Establish framework for understanding officership, leadership and Army values followed and "life skills" such as physical fitness and time management. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); Mandatory for "Contracted" cadets. Lecture 2 hours.

**1021 BASIC LEADERSHIP LAB 1 credit hour** Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The

availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); mandatory for "Contracted" cadets. Laboratory 1 hour. Prerequisite: Basic Leadership (MSL 1022) or concurrent enrollment. MSL 1022 must be successfully completed before credit is given in this course.

**1022 BASIC LEADERSHIP** *2 credit hours* Establishes foundation of basic leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting, techniques for improving listening and speaking skills and an introduction to counseling. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); Mandatory for "Contracted" cadets. Lecture 2 hours.

**2002-8 LEADER'S TRAINING COURSE (BASIC CAMP)** *2-8 credit hours* A four week opportunity to develop new skills, to grow personally and to qualify for enrollment in Army ROTC advanced courses. The Leader's Training Course is a world-class leadership development program that will instill self-confidence and provide leadership skills for life. Prerequisite: Permission of the Professor of Military Science.

**2011 INDIVIDUAL LEADERSHIP LAB** *1 credit hour* Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); mandatory for "Contracted" cadets. Laboratory 1 hour. Prerequisite: Individual Leadership Studies (MSL 2012) or concurrent enrollment. MSL 2012 must be successfully completed before credit is given in this course.

**2012 INDIVIDUAL LEADERSHIP STUDIES** *2 credit hours* Students identify successful leadership characteristics through observation of others and self through experimental learning exercises. Students record observed traits (good and bad) in a dimensional leadership journal and discuss observations in small group settings. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); Mandatory for "Contracted" cadets. Lecture 2 hours.

**2021 LEADERSHIP AND TEAMWORK LAB** *1 credit hour* Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); mandatory for "Contracted" cadets. Laboratory 1 hour. Prerequisite: Leadership and Teamwork (MSL 2022) or concurrent enrollment. MSL 2022 must be successfully completed before credit is given in this course.

**2022 LEADERSHIP AND TEAMWORK** *2 credit hours* Study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process and obtaining team buy-in through immediate feedback. Participation in Leadership Lab and Physical Fitness training is optional for "Non-Contracted" cadets (but highly encouraged); mandatory for "Contracted" cadets. Lecture 2 hours.

**2032 INDEPENDENT STUDY IN MILITARY SCIENCE** *2 credit hours* This course is available only to students with scheduling conflicts which prevent their completion of another lower division Military Science course. Content will duplicate the content of the course it replaces. Lecture 2 hours. Laboratory required if student is a contracted cadet.

#### **Advanced Course**

The Advanced Course, consists of MSL 3013, 3023, 4004, 4013 and 4023. Cadets normally attend Leader Development and Assessment Course (LDAC) (MSL 4004) during the summer between their junior and senior years. It is open only to students who have completed the Basic Course, Leader's Training Course or for whom the Professor of Military Science has approved placement credit based on prior military service. The Advanced Course is designed to qualify a student for a commission as an officer in the United States Army. Students must qualify physically, mentally and morally prior to enrollment. They must complete all courses in sequence unless otherwise approved by the Professor of Military Science. Students receive full academic credit, to include 4 credits for the Leader Development and Assessment Course, and may declare a minor in Military Science (as approved by the Professor of Military Science). Students receive a stipend during the school year and veterans may draw the ROTC stipend and VA educational benefits concurrently. The Advanced Course emphasizes practical exercises in leadership.

**3011 LEADERSHIP AND PROBLEM SOLVING LAB** *1 credit hour* Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Attendance is mandatory for Juniors and Seniors. Laboratory 1 hour. Prerequisite: MSL 3013 or concurrent enrollment. MSL 3013 must be successfully completed before credit is given in this course.

**3013 LEADERSHIP AND PROBLEM SOLVING** *3 credit hours* Students conduct self-assessment of leadership style, develop personal fitness regimen, and learn to plan and conduct individual/small unit tactical training while testing reasoning and problem-solving techniques. Students receive direct feedback on leadership abilities. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours. Prerequisite: Completion of Military Science Basic Courses or placement credit for the Basic Courses and permission of the Professor of Military Science.

**3021 LEADERSHIP AND ETHICS LAB** *1 credit hour* Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The

availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Mandatory attendance for Juniors and Seniors. Laboratory 1 hour. Prerequisite: Leadership and Ethics (MSL 3023) or concurrent enrollment. MSL 3023 must be successfully completed before credit is given in this course.

**3023 LEADERSHIP AND ETHICS** *3 credit hours* Examines the role communications, values and ethics play in effective leadership. Topics include ethical decision-making, consideration of others, spirituality in the military, and survey Army leadership doctrine. Emphasis on improving oral and written communication abilities. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours. Prerequisite: Completion of Military Science Basic Courses or placement credit for the Basic Courses and permission of the Professor of Military Science.

**4004 CADET LEADER COURSE** *4 credit hours* A four-week leadership development exercise conducted at Fort Knox, Kentucky. Open only to (and required of) students who have completed MSL 3013 and 3023. The Cadet Leader Course environment is highly structured and demanding; stressing leadership at small unit levels under varying, challenging conditions. Individual leadership and basic skills performance are continuously developed throughout the exercise. Qualified cadets may assigned in leadership positions supporting the Cadet Initial Entry Training (CIET) exercise, either before or after their scheduled CLC. They may also attend Airborne, Air Assault, Northern Warfare and Cadet Troop Leader Training between the end of the spring semester and the beginning of the fall semester. Prerequisites: MSL 3013 and 3023.

**4011 LEADERSHIP CHALLENGES/GOAL SETTING LAB** *1 credit hour* Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Mandatory attendance for Juniors and Seniors. Laboratory 1 hour. Prerequisite: Leadership Challenges/Goal Setting (MSL 4013) or concurrent enrollment. MSL 4013 must be successfully completed before credit is given in this course.

**4013 LEADERSHIP CHALLENGES AND GOAL SETTING** *3 credit hours* Develops student proficiency in planning and executing complex operations, functioning as a member of a staff and mentoring subordinates. Students explore training management, methods of effective staff collaboration and developmental counseling techniques. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours. Prerequisite: Permission of the Professor of Military Science.

**4021 OFFICERSHIP LAB** *1 credit hour* Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Attendance is mandatory

for Juniors and Seniors. Laboratory 1 hour. Prerequisite: Officership (MSL 4023) or concurrent enrollment. MSL 4023 must be successfully completed before credit is given in this course.

**4023 OFFICERSHIP** *3 credit hours* Study includes case study analysis of military law and practical exercises on establishing an ethical command climate. Students must complete a semester-long Senior Leadership Project that requires them to plan, organize, collaborate, analyze and demonstrate their leadership skills. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours. Prerequisite: Permission of the Professor of Military Science.

### **Leadership Laboratory**

Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus and the proximity of Fort Sill allows students to get out of the classroom and apply the skills they have learned in fast-paced exercises. Attendance is optional for non-ROTC scholarship/non-contracted freshmen and sophomores, but they are always welcome and encouraged to attend. Attendance is mandatory for juniors and seniors.

## OFFICE OF EXTENDED LEARNING

Sylvia Burgess–Associate Vice President for  
Academic Affairs

INTERDISCIPLINARY STUDIES–AS AND BS  
Sylvia Burgess–Oversight  
Academic Advising Center–Advisement and  
Enrollment

DISTANCE LEARNING  
Lisa Restivo–Coordinator

CONTINUING EDUCATION AND OUTREACH  
ORGANIZATIONAL LEADERSHIP, REACH HIGHER  
Assistant Professors: Karen Hardin, Mary Penick

The mission of the [Office of Extended Learning](#) is to promote lifelong learning, an organizational leadership program, health care recruitment and training, and distance education support, and is dedicated to helping individuals, businesses, and groups transform themselves through knowledge.

## UNIVERSITY INTERDISCIPLINARY DEGREES

Cameron University offers the Bachelor of Science and the Associate 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.

### PROGRAM ADMISSION

Prospective students are required to submit an application consisting of a title page, a list of all courses/credits previously earned that the student proposes to be applied to the Interdisciplinary Studies degree, and a two-page rationale (essay). The rationale (essay) should contain a clear statement of the student's educational objectives, an explanation of how the selected concentrations are interdisciplinary in nature, what the student expects to be able to do as a result of his/her studies, and a statement explaining why the proposed program is worthy of a college degree.

### PROCEDURES

1. Contact the Interdisciplinary Studies Advisor in the Academic Advising Center to make an appointment and create a plan of study. Plans must be approved by the academic department for each area of concentration and by the director.
2. Each person admitted to the program will be assigned an advisor and committee member (if needed) to (a) visit with the student to clarify goals and objectives and (b) develop a program of study.
3. Changes in the plan of study must be approved by the advisor and director.
4. Candidates for graduation must submit a copy of the approved plan of study to the Registrar two semesters

prior to planned graduation date to check for compliance with graduation requirements.

## ASSOCIATE IN SCIENCE DEGREE INTERDISCIPLINARY STUDIES (365)

A student may apply for admission to this program during or after the semester in which 12 semester hours of credit are completed (including transfer and military credit). A minimum of 12 semester hours must be completed after admission to the degree program. Students must meet computer literacy requirements of at least one of their areas of concentration or complete CIS 1013. This degree may or may not prepare a student for a particular occupation or entry into a baccalaureate degree program.

### I. GENERAL EDUCATION REQUIREMENTS (44 hours)

### II. UNIVERSITY REQUIREMENTS (1-3 hours)

UNIV 1001 or 1113

### III. CONCENTRATION REQUIREMENTS\* (21 hours)

#### A. Required Course (3 hours) UNIV 2543

#### B. Courses Approved by Chair or Advisor (18 hours)

**Primary Discipline (9 hours)** A minimum of 9 hours must be completed in the primary discipline, with a minimum of 3 hours completed in residence at Cameron University. Only courses approved by the department chair of each discipline will meet this requirement.

**Secondary Discipline (9 hours)** A minimum of 9 hours must be completed in the secondary discipline, with a minimum of 3 hours completed in residence at Cameron University. Only courses approved by the department chair of each discipline will meet this requirement.

\*Courses selected from two disciplines which in their aggregate comprise a rational combination of skills and concepts.

### IV. ELECTIVES TO TOTAL 66 HOURS REQUIRED FOR GRADUATION

## BACHELOR OF SCIENCE DEGREE INTERDISCIPLINARY STUDIES (360)

A student may apply for admission to this program during or after the semester in which 24 semester hours of credit (including transfer and military credit) are completed. A minimum of 24 semester hours must be completed after admission to the degree program. Students must meet computer literacy requirements of at least one of their areas of concentration or complete CIS 1013. This degree may or may not prepare a student for a particular occupation or entry into a graduate or professional school.

### I. GENERAL EDUCATION REQUIREMENTS (44 hours)

### II. UNIVERSITY REQUIREMENTS (1-3 hours)

UNIV 1001 or 1113

### III. CONCENTRATION REQUIREMENTS\* (51 hours)

#### A. Required Course (3 hours) UNIV 4543

#### B. Courses Approved by Chair or Advisor (48 hours)

**Primary Discipline (30 hours)** A minimum of 30 hours must be completed in the primary discipline, with a minimum of 9 upper division hours completed in residence at Cameron University. Only courses approved by the department chair of each discipline will meet this requirement.

**Secondary Discipline (18 hours)** A minimum of 18 hours must be completed in the secondary discipline, with a minimum of 9 upper division hours completed in residence at Cameron University. Only courses approved by the department chair of each discipline will meet this requirement.

\*Courses selected from two disciplines which in their aggregate comprise a rational combination of skills and concepts. A minimum of 25 semester hours must be upper division courses, 18 of which must be obtained from Cameron.

#### IV. ELECTIVES TO TOTAL 124 HOURS REQUIRED FOR GRADUATION

### BACHELOR OF SCIENCE DEGREE ORGANIZATIONAL LEADERSHIP (775)

- I. GENERAL EDUCATION REQUIREMENTS (44 hours)
- II. UNIVERSITY REQUIREMENTS (1-3 hours)  
UNIV 1001 or 1113
- III. MAJOR/MINOR REQUIREMENTS (42 hours)
  - A. **Required Courses (27 hours)** ORGL 3113, ORGL 3223, ORGL 3333, ORGL 3443, ORGL 4113, ORGL 4223, ORGL 4333, ORGL 4443, ORGL 4553
  - B. **Optional Course (3 hours)** ORGL 4993
  - C. **Option\* (12-15 hours)** \*Students who complete ORGL 4993 will complete 12 hours in the option; students who do not complete ORGL 4993 will complete 15 hours in the option.  
Choose one of the following options:
 

**Business** Students will select courses from the list below for a total of 12-15 hours: ECON 2013, ECON 2023, ACCT 2013, ACCT 2023, BUS 2113, BUS 3213, BUS 3223, FIN 2113, FIN 3603, MGMT 3013, MGMT 3513, MGMT 4013, MKTG 3423, MKTG 3433, MKTG 3533

**Criminal Justice** Students will complete the following required courses and select additional courses from the list below for a total of 12-15 hours.  
*Required Course:* CJ 1013, and *Choose 9-12 hours from the following:* CJ 3103, CJ 3133, CJ 3013, CJ 4033, CJ 4133, CJ 4493

**Military Science Contracted Cadets:** At least 18 credit hours from the following list of courses: MSL 3011, MSL 3013, MSL 3021, MSL 3023, MSL 4004, MSL 4011, MSL 4013, MSL 4021, MSL 4023, HIST 3133

**Active Duty Students:** Students will complete the following required courses, and select additional courses from the list below for a total of 12-15 hours.  
*Required Courses:* MSL 2022, HIST 3133, and *Choose 7-10 hours from the following:* MSL 2021, CJ 4023, MGMT 4013, COMM 2313, COMM 3353, PBRL 3113, GEOG 3213

**Sociology** Students will select courses from the list below for a total of 12-15 hours.  
*Required Course:* SOCI 1113  
*Choose 9-12 hours from the following:* Any course with a SOCI prefix

**Technology** Students will complete the following required courses and select additional courses from the list below for a total of 12-15 hours. *Required Courses:* TECH 3013, TECH 4143, and *Choose 6-9*

*hours from the following:* TECH 3003, TECH 4003, TECH 4033, TECH 4443, MIS 4433

#### IV. PROFESSIONAL & FREE ELECTIVE REQUIREMENTS (38 hours\*\*)

\*\*Courses could include prior academic credit on transcript and/or up to 30 hours of extra institutional credit through CLEP, DSST, military or prior learning assessment (maximum of 15 hours in this category).

#### V. ELECTIVES TO TOTAL 124 HOURS REQUIRED FOR GRADUATION

### COURSE DESCRIPTIONS

#### ORGANIZATIONAL LEADERSHIP (ORGL)

**3113 FOUNDATIONS OF ORGANIZATIONAL LEADERSHIP AND PERSONAL DEVELOPMENT** 3 credit hours This course is an introduction to the Organizational Leadership Bachelor of Science Program. Essential components will include: overview of program expectations; principles of adult learning; resources for success including library, campus, online resources and mentoring relationships; personal wellness/stress and time management techniques; study and test-taking skills; and basic computer skills for working in an online environment. Lecture 3 hours.

**3223 PROFESSIONAL COMMUNICATION** 3 credit hours A study of communication in the workplace within a framework of organizational ethics. Essential components and course content include: listening, verbal and nonverbal communication, written expression, and professional presentation. Lecture 3 hours.

**3333 DATA ANALYSIS AND INTERPRETATION** 3 credit hours This course will enable the student to develop an understanding of the application and interpretation of basic data analysis. Essential components and course content will include basic data analysis from a user perspective. Hands-on exercises will enable students to utilize Excel to solve problems and interpret results. Lecture 3 hours.

**3443 FOUNDATION OF FISCAL MANAGEMENT** 3 credit hours A managerial overview of fiscal management within organizations. Essential components and coursework content will include: understanding the components and articulation of financial statements, knowledge and application of financial ratios leading to an understanding of organizational performance across time and in comparison to industry standards, utilization of financial information in the acquisition of capital and budgeting decisions, and rudimentary understanding of cash flows. Lecture 3 hours.

**4113 ETHICS AND ORGANIZATIONS** 3 credit hours This course is designed to examine the dynamics of workplace and personal ethics through the study of basic philosophical theories. Essential components and course content will include: leadership in the context of self-governance, responsibility adherence to principles, integrity and constancy of purpose. Current case studies will be used to apply ethical theories. Lecture 3 hours.

**4223 THE INDIVIDUAL, THE ORGANIZATION, AND SOCIETY** 3 credit hours An examination of contemporary issues that affect organizations. Essential topics include environmental stewardship, social responsibility of the organization, effects and implications of globalization, the status of individual freedom within the organization, diversity, and the ramifications of technological change. Lecture 3 hours.

**4333 LEADING AND MANAGING** 3 credit hours This course is a study of theories that influence leadership and management

with application to a variety of work situations. Essential components and coursework content will include: basic leadership and behavior styles, negotiation, critical thinking, change, conflict resolution, ethics and social responsibility and diversity in the workplace. Assessment of personal leadership abilities and personality traits will be included. Lecture 3 hours.

**4443 MARKETS AND STAKEHOLDERS** *3 credit hours* This course introduces the student to the concept of markets and stakeholders. Essential components and course content will include: an overview of competitive markets, buyer behavior, development of new markets and products, marketing communication, distribution channels, pricing and marketing mix strategies. It will include a discussion of external environmental factors and stakeholder analysis. Students will be able to evaluate market needs, select target markets and develop an appropriate market. Lecture 3 hours.

**4553 CAPSTONE** *3 credit hours* This course provides the student the opportunity to integrate concepts and theories covered in the core with their area of focus. Students will design and implement a capstone project related to their area of focus culminating in a written and oral presentation. This course must be taken in the student's final enrollment period. Capstone/lecture 3 hours.

**4993 INTERNSHIP IN ORGANIZATIONAL LEADERSHIP** *3 credit hours* Supervised professional-level assignment with an organization, firm, government agency, or not-for-profit entity within the selected area of focus. Internship 3 hours. Prerequisites: All core courses except for ORGL 4553, Capstone. Permission of instructor.

### **UNIVERSITY (UNIV)**

**1000 ORIENTATION** *0 credit hours* 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. Lecture 2 hours.

**1011 CAREER DEVELOPMENT** *1 credit hour* 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 credit hours* A study of special lower-division areas or problems. Individual course offerings will vary from department to department. Independent study/directed readings 1-5 hours.

**2543 IDS AS CAPSTONE EXPERIENCE** *3 credit hours* This course provides students with an opportunity to integrate concepts and theories learned through studies in their designated concentrations. Students will select a faculty advisor from each of the student's designated areas of concentration (approved by the chairs of each impacted department), and will work with the advisors to design and implement capstone projects related to the concentrations, culminating in written reports, oral presentations and a degree achievement portfolio. Emphasis is on critical thinking and analysis, and decision making in an interdisciplinary environment. This course normally must be taken in the student's final enrollment period. Independent study/directed readings 3 hours.

**3001 JOB SEEKER SKILLS** *1 credit hour* 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.

**4543 IDS BS CAPSTONE EXPERIENCE** *3 credit hours* This course provides students with an opportunity to integrate concepts and theories learned through studies in their designated concentrations. Students will select a faculty advisor from each of the student's designated areas of concentration (approved by the chairs of each impacted department), and will work with the advisors to design and implement capstone projects related to the concentrations, culminating in written reports, oral presentations and a degree achievement portfolio. Emphasis is on critical thinking and analysis, and decision making in an interdisciplinary environment. This course normally must be taken in the student's final enrollment period. Independent study/directed readings 3 hours.

## **HONORS PROGRAM**

**The Cameron University Honors Program offers students the opportunity to graduate with honors. Based on specified admissions requirements and a formal application process, attainment of this academic distinction is open to all Cameron University students seeking enriching, high impact, innovative, and experiential learning opportunities.**

### **PROCEDURES**

1. Contact the Office of Academic Enrichment to learn about the admissions requirements and the formal application process.
2. Each person admitted to the Cameron University Honors Program will receive additional advising support from the Office of Academic Enrichment staff to ensure successful honors program graduation.

### **REQUIREMENTS**

A student may apply to join the Cameron University Honors Program at any time during the semester. A minimum of 24 semester hours must be completed after admission to the honors program. Students must take the honors program core requirements and a certain number of electives.

#### **I. HONORS CORE REQUIREMENTS (12 hours)**

HON 1001 Introduction to Honors Studies\*

HON 1102 Foundations of Leadership

HON 2113 Honors Colloquium: Great Works I\*\*

HON 2123 Honors Colloquium: Great Works II\*\*

HON 3003 Honors Seminar 3 hours

#### **II. HONORS ELECTIVE REQUIREMENTS (12 hours)**

Choices include:

**A. Elective courses approved by the Honors Council**

**B. Experiential Learning Courses (max 3 hours):**

HON 4001-3 Research/Scholarly Activity

UNIV 4593 Study Abroad

**C. Oklahoma Scholar-Leadership Enrichment Program (OSLEP) Course (max 3 hours):**

UNIV 3213 OSLEP

#### **III. HONORS COMPONENT IN CAPSTONE AND HONORS SENIOR PROJECT (0 hours) HON 4300**

\*Honors students will take HON 1001 in place of UNIV 1001.

\*\*Satisfies General Education, Humanities-Diversity requirement.

## COURSE DESCRIPTIONS

### HONORS (HON)

**1001 INTRODUCTION TO HONORS STUDIES** *1 credit hour* This course is designed to familiarize students with the educational and social environment of Cameron University, acquaint them with the expectation, standards, and opportunities associated with the Honors Program, and provide basic skill sets in the areas of decision making, time management, ethics in research, and other related academic activities in the honors program. Lecture 1 hour. Prerequisite: Permission of the Honors Director.

**1102 FOUNDATIONS OF LEADERSHIP** *2 credit hours* This course is designed to familiarize students with the theoretical and practical underpinnings of transformative leadership within the public and private sectors. This course provides the knowledge, skills, and foundation in leadership necessary to be an effective leader in a variety of settings. Lecture 2 hours. Prerequisite: Permission of the Honors Director.

**2113 HONORS COLLOQUIUM: GREAT WORKS I** *3 credit hours* This course is designed as a multi-disciplinary, team-taught colloquium and examines the great historical, cultural, scientific and mathematical achievements and discoveries of selected cultures before 1500. Seminar 3 hours. General Education, Humanities–Diversity.

**2123 HONORS COLLOQUIUM: GREAT WORKS II** *3 credit hours* This course is designed as a multi-disciplinary, team-taught colloquium and examines the great historical, cultural, scientific and mathematical achievements and discoveries of selected cultures since 1500. Seminar 3 hours. General Education, Humanities–Diversity.

**2133 THE SCIENCE OF HUMAN NATURE** *3 credit hours* This honors course is designed as a study of the basic facts and principles of human behavior. It examines various issues of interest to a wide variety of students from multiple perspectives, including psychology, anthropology, sociology, criminology, and biology. This course will introduce you to scientific concepts and critical thinking skills that are used in multiple disciplines. Each topic area will include a discussion of major theoretical perspectives, current research, and real-world applications related to that area. Lecture 3 hours. General Education, Behavioral Science. Prerequisite: Departmental permission required.

**3003 HONORS SEMINAR** *3 credit hours* This course is designed as an intensive, interdisciplinary, team-taught seminar that focuses on how the contributions from several disciplines illustrate the study of the selected topic; intensive study will focus on historical, cultural, and scientific aspects of the topic. Seminar 3 hours.

**3113 INTERNATIONAL MANAGEMENT** *3 credit hours* This honors course is designed to cover relevant aspects of management in an international context. Specifically, students will learn about international business environments (political, economic, legal, technological, cultural) and international operations of multinational corporations. In addition, they will analyze strategic and operational issues that arise from the global nature of multinational corporations' activities. Topics covered will include but not be limited to strategic alliances, their implementation and management, international HRM, etc. Lecture 3 hours. Prerequisite: Departmental permission required.

**3123 HISTORY AND PHILOSOPHY OF SCIENCE** *3 credit hours* This honors course is designed to be an intensive survey of the history of science from antiquity to modern times, with an

emphasis on major milestones in the fields of physics, astronomy, chemistry, biology, geology, and medicine. Students will consider the influence of philosophy, culture, and discovery on the development of science. Specific topics and readings will vary by semester and instructor. Lecture 3 hours. Prerequisite: Departmental permission required.

**4001-3 RESEARCH/SCHOLARLY ACTIVITY** *1-3 credit hours* This honors course is designed to allow honors students to engage in research and scholarly activities in their discipline by working with a faculty mentor on a research or scholarly activity project. Independent study/directed readings/field experience, 1-3 hours. Prerequisite: Permission from the Director of Academic Enrichment.

**4300 HONORS SENIOR PROJECT** *0 credit hours* Honors students will complete their senior project under the direction of their major degree program. A faculty member from the student's major typically serves as project advisor. The major capstone experience and honors senior project should be completed concurrently, during the student's senior year. A signed contract between the student and a faculty member from the student's major, complete with requirements for the senior project, should be completed prior to enrollment. Capstone 0 hours. Prerequisites: Permission of Honors Program Director or Departmental Permission.

### UNIVERSITY (UNIV)

**3211-3 OSLEP** *1-3 credit hours* OSLEP classes are an intensive study of creative, innovative, and contemporary problems or issues focusing on the theoretical and practical understanding of phenomena across the humanities, social sciences, and sciences. Designed as seminars that focus on different topics, OSLEP classes emphasize advanced reading and writing assignments. Readings and design of assignments are determined by the faculty resource person. The faculty resource person directs student preparation, evaluates student performance (oral and written), and assigns grades. Prerequisite: Permission of CU OSLEP Coordinator.

**4211-5 SPECIAL STUDIES** *1-5 credit hours* An intensive study of special upper division areas or problems. Individual course offerings will vary by department. Independent study/directed readings 1-5 hours.

**4593 STUDY ABROAD** *3 credit hours* This course is designed to allow students to learn about different countries across the world in terms of their culture, history, politics, and other country-specific characteristics and also experience these countries during study abroad opportunities. Lecture/field experience 3 hours. Prerequisite: Permission from the Director of Academic Enrichment.

## OFFICERS AND FACULTY

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**ABBOTT, ERIC (2010)** *Art, Music, and Theatre Arts*, B.A., M.F.A.,  
 University of Nebraska-Lincoln.  
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 Lafayette.  
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 Seminary; M.A., Hardin-Simmons University; Ph.D., Capella  
 University.  
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 California State University-Fullerton; Ph.D., Purdue  
 University.  
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 University.  
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 B.S., University of Arkansas; M.S., University of Kansas; Ph.D.,  
 University of Arkansas.  
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- CAMP, SUSAN (1994)** *Cameron University-Duncan, Director*, B.S., Cameron University, M.Ed., University of Oklahoma.
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- DURGIN, J.D. (2009)** *Events Management, Event Specialist*, B.S., M.S., Cameron University.
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