

CAMERON UNIVERSITY

UNDERGRADUATE CATALOG 2021–2023

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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, gender identity, gender expression, age, religion, political beliefs, disability, 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 education 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, 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. Consequently, students should consult the appropriate advisor and refer to the class schedule for the offerings in any given academic session.

ACADEMIC CALENDAR

Cameron University's academic calendar is approved by the President or their designee and submitted annually to the Oklahoma State Regents for Higher Education (OSRHE). 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 session defined as follows:

- A. The summer session begins late May or early June and ends late July or early August.
- B. The fall semester begins mid- to late August or early September and ends in December.
- C. The spring semester begins 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 [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 evolution of Cameron University closely parallels the history of the area it serves in Southwest Oklahoma. It was founded by the Oklahoma Legislature in 1908 as the 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, the 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 Cameron joined a 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 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 Oklahoma State Regents for Higher Education 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 in May 1990.

In recognition that Cameron's mission had become significantly more complex and predominantly urban, in June 1992, governance of the university was transferred by the Oklahoma Legislature to The Board of Regents of The University of Oklahoma. 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.

CORE VALUES

Cameron University values:

- Student learning as our top priority;
- Excellence in teaching, scholarship, service, and mentoring:
 - Investment in people: The growth and development of our students, faculty and staff in a learning environment based on integrity, respect, and ethical behavior that encourages and provides opportunities for professional improvement;
- Leadership in our community and region that emphasizes:
 - Stimulating economic development,
 - Forming partnerships and collaborative relationships,
 - Providing cultural and social development, and
 - Serving the community and region by sharing our expertise;
- Shared governance that includes:
 - Emphasizing teamwork,
 - Facilitating open and effective communication, and
 - Providing opportunities for active participation by all constituencies;
- Diversity among our students, faculty, and staff as demonstrated by:
 - Providing access to educational and teaching opportunities for all constituents, and
 - Promoting tolerance through a free and open exchange of ideas;
- Responsible stewardship of public and private resources, the public trust, and Cameron's future that includes:
 - Focusing resources to achieve optimal student learning,
 - Increasing student access to quality higher education,
 - Establishing a reliable stream of public and private revenue,
 - Holding administrative costs to a minimum,
 - Enhancing alumni involvement, and
 - Providing accountability in key areas such as student learning and management of resources.

UNIVERSITY FUNCTIONS

The functions assigned to Cameron University by the Oklahoma State Regents for Higher Education include:

- A. Both lower- and upper-division undergraduate study in several fields leading to the baccalaureate degree.
- B. A limited number of programs leading toward the first professional degree when appropriate to the institution's strengths and the needs of the state.

- C. Graduate study below the doctor's level, primarily in teacher education but moving toward limited comprehensiveness in fields related to Oklahoma's manpower needs.
- D. Extension and public service responsibilities in the geographic regions in which the university is located.
- E. Responsibility for institutional and applied research in those areas related closely to program assignments.
- F. Responsibility for regional programs of economic development.
- G. Perform other functional or programmatic responsibilities as authorized by the Oklahoma State Regents for Higher Education. Criteria for consideration of programs outside of the function described herein are outlined in the OSRHE Academic Program Approval policy.

ACCREDITATION

Cameron University is accredited by [The Higher Learning Commission](#).

Many of Cameron's academic programs are accredited through discipline-specific accrediting programs. A list of accredited programs and information regarding their respective accrediting bodies is maintained on the [Accreditation](#) webpage.

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, gender identity, gender expression, age, religion, political beliefs, disability, 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 education services.

To obtain information about applicable laws or to file an EEO- or Title IX-related complaint of discrimination, including harassment, contact either of our University Equal Opportunity Officers & Title IX co-coordinators Christi Williams or Dr. Keith Vitense (580)581-6712 or eo-tix@cameron.edu.

DEGREES AND MAJORS

Cameron University offers curricula leading to master's, bachelor's, and associate degrees. The following degrees are offered: Associate in Arts (AA), Associate in Science (AS), Associate in Applied Science (AAS), Bachelor of Accounting (BACC), Bachelor of Arts (BA), Bachelor of Business Administration (BBA), Bachelor of Fine Arts (BFA), Bachelor of Music (BM), Bachelor of Music Education (BME), and Bachelor of Science (BS). Associate and baccalaureate programs include general education requirements and a major or concentration. Baccalaureate programs may also include a minor (or major-minor) and electives. Development of expertise in a discipline occurs in major courses while 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 course substitutions or waivers necessary to meet degree requirements, (3) verify each enrollment to ensure courses apply toward degree requirements, satisfy a prerequisite, or meet a mandated institutional requirement, and (4) review their Degree Works audit for accuracy each semester.

Accounting (BACC)

Agriculture (BS) with options in:

Agribusiness Management
Agronomy
Animal Science
General Agriculture

Allied Health Sciences (AS)

Art (BA)

Art (BFA) with options in:

Graphic Design
Painting
Printmaking
Sculpture

Biology (BS) with options in:

Cellular and Molecular Biology
Medical Laboratory Science
Organismal Biology

Business (AS)

Business Administration (BBA) with options in:

General Business Administration
Finance
Marketing
Management

Chemistry (BS) with options in:

ACS Certified Chemistry
Non-ACS Certified Chemistry
Health Profession Chemistry

Computer Science (BS)

Criminal Justice (AS and BS)

Early Childhood Education (BS) with option in:

Special Education

Elementary Education (BS) with option in:

Special Education

Engineering (AAS) with options in:

Civil Engineering
Electrical Engineering
Environmental Engineering
Industrial Engineering
Mechanical Engineering

English (BA) with options in:

Creative Writing
Literature

English Education (BA)

Family and Child Studies (BS) with options in:

Child Development
Family Studies

History (BA)

Information Technology (AAS & BS) with BS options in:

Cyber Security and Information Assurance
Management Information Systems
Technology

Interdisciplinary Studies (AS & BS)

International Languages (BA)

Journalism and Media Production (BA)

Mathematics (BA)

Music (BA & BM) with BM options in:

Composition
Instrumental Performance
Piano Performance
Vocal Performance

Music Education (BME) with options in:

Instrumental/General
Vocal/General

Organizational Leadership (BS) with options 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) with options in:

General Sociology
Human Services

Sports and Exercise Science (BS)

Strategic Communication (AA & BA) with BA options in:

Communication Studies
Public Relations

Theatre (BA) with options in:

Performance Theatre
Technical Theatre

MINORS

A minor for baccalaureate 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.

APPROVED MINOR PROGRAMS

Accounting*	Humanities*
Agriculture	Information
Agronomy	Technology*
Animal Science	Journalism and Media
Arabic	Production*
Art*	Language Arts*
Art History*	Latin
Biology*	Management*
Chemistry*	Management
Communication Studies*	Information
Computer Information	Systems*
Systems	Marketing*
Computer Science*	Mathematics*
Criminal Justice*	Military Science*
Cyber Security*	Multicultural Studies*
Economics*	Music*
Educational Studies*	Organizational
English	Leadership*
Environmental Studies*	Physics*
Family Science*	Political Science
Finance*	Pre-Law*
Foreign Languages*	Professional Writing
French	Psychology
General Business	Public Relations*
Administration*	Sociology*
Geography	Spanish
German	Special Education*
Health*	Statistics*
History*	Theatre Arts

*Defined Minor

DEFINED MINORS

Accounting (18 hours)

Non-Business Majors: ACCT 2013, ACCT 2023, and upper division accounting courses (12 hours); **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, 4643, 4653.

Biology (24 hours)

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

Chemistry (18 hours)

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

Communication Studies (18 hours)

COMM 1113, COMM 2313 **or** COMM 3353, COMM 2393, **and** COMM electives (9 hours).

Computer Science (20 hours)

Required: CS 1314, CS 1514, CS 2513, CS 3183; **and** two courses selected from: CS 1523, CS 1733, CS 2413, CS 3013*, CS 3513*, IT 1063. (*Prerequisite: CS 2413.)

Criminal Justice (18 hours)

CJ 1013, CJ 2113, CJ 3103; **and** three additional courses (9 hours) in CJ.

Cyber Security (19 hours)

19 hours of courses from the Information Technology Program, including IT 1063, IT 2064, 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)

Non-Business Majors: ECON 2013, ECON 2023, ECON 3013, ECON 3023, ECON 3313, and upper division business or economics electives (3 hours); **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, and Music Majors). EDUC 3003, EDUC 3733, EDUC 4893, SPED 3103; **and** 6 hours selected from the following: EDUC 3013, EDUC 3673, EDUC 3753, or EDUC 4653.

Environmental Studies (18 hours)

Non-Biology Majors: ENSC 2004, BIOL 1004, and a minimum of 10 hours from: BIOL 1114, GEOG 1014, GEOG 3023, or SOCI 3373; **Biology Majors:** ENSC 2004 and a minimum of 14 hours from: BIOL 1114, BIOL 3054¹, BIOL 3074¹, BIOL 4064¹, GEOG 1014, and GEOG 3023. (¹These courses have prerequisites covered by Biology Major core and/or concentration requirements).

Family Science (18 hours)

FAMS 1123 and 15 hours to be chosen from any course with a FAMS prefix, ECON 2003, PSY 3353, PSY 3363, or PSY 3373.

Finance (18 hours)

For Business Administration and Accounting Majors: FIN 3313, FIN 3623, FIN 4333, and upper division finance electives (9 hours); **For Non-Business Majors:** ECON 2023, FIN 3313, FIN 3603, FIN 3623, FIN 4333, and upper division finance electives (3 hours).

Foreign Languages (18 hours)

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

General Business Administration (18 hours)

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) 18 hours selected from SES 2003, SES 2013, SES 2023, SES 2033, SES 3003, SES 3013, SES 3023, SES 3053, SES 4033.

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, PHIL 1113, HIST 1113, HIST 1123, MUSC 1413, MUSC 1423, THTR 3823.

Information Technology (18 hours)

18 semester hours of the Information Technology Program (including IT 2064 and IAS 2233). Note that IT 1013 will 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)

English Majors: 18 hours in Foreign Languages, Journalism and Media Production, Library Science, Theatre, Communication (except COMM 1113), or Professional Writing. **Non-English majors:** 18 hours in Foreign Languages, Journalism and Media Production, Library Science, English (sophomore level or above), Theatre, Communication (except COMM 1113), or Professional Writing.

Management (18 hours)

Business Administration and Accounting Majors: MGMT 3513, MGMT 3813, MGMT 4033, and upper division management electives (9 hours); **Non-Business Majors:** BUS 1113, ACCT 2013, MGMT 3013, MGMT 3513, 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. IT 1013 may not count toward this minor.

Marketing (18 hours)

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

Mathematics (18 hours)

MATH 2215¹, 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 3013² **or** MATH 4433, MATH 3213², MATH 3253, MATH 3302, MATH 3333, MATH 3343, MATH 3413, MATH 4113, MATH 4423², MATH 4471-3, MATH 4483³. (¹Prerequisites: MATH 1513 and MATH 1613 or satisfactory placement score. ²Prerequisite: MATH 2613. ³Prerequisites: 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, GEOG 2243, GEOG 3213, PHIL 2713, MUSC 1033, or FNAR 1013.

Music (18 hours)

Four semesters of Concert Band (MUSC 1110-1), Concert Choir (MUSC 1140-1), Accompanying (MUSC 3171), Orchestra (MUSC 1120-1), or Guitar Ensemble (MUSC 1150-1); MUSC 1023; MUSC 1033; MUSC 2312, MUSC 2332, MUSC 3801 (4 semesters), and 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 3213¹, COMM 2213. *Electives (6 hours):* BUS 3223², CJ 2113³, CJ 2233³, CJ 3063⁴, COMM 3113, COMM 3633. (¹Prerequisites: Junior Standing; ²Prerequisite: BUS 3213; ³Prerequisite: CJ 1013; ⁴Prerequisites: CJ 1013 and CJ 2113.)

Public Relations (18 hours)

COMM 4673, PBRL 2113, PBRL 4823, **and** PBRL or JRMP electives (9 hours).

Sociology (18 hours)

SOCI 1113 and SOCI electives (15 hours).

Special Education (18 hours)

(Open to Psychology and Family and Child Studies majors only.) SPED 3103¹, SPED 3203, SPED 3223, SPED 3243, SPED 3263, SPED 4413. (¹Prerequisite: EDUC 3733 or PSY 3353). ***This minor does not prepare students for state teaching licensure in public schools.***

Statistics (18 hours)

Required: MATH 2215¹, MATH 2235, STAT 2013², **and** a minimum of 5 credit hours of electives chosen from the following: STAT 2023, STAT 3113, STAT 3123, MATH 3253, MATH 3302, MATH 3333, MATH 3302, MATH 4113, MATH 4433. (¹Prerequisite: MATH 1513 and MATH 1613 or satisfactory placement score. ²Prerequisite: MATH 1513 or satisfactory placement score).

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 many 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 OR Sports and Exercise Science
Veterinary Medicine	Agriculture, Biology, and Health Sciences OR Chemistry, Physics, and Engineering

ADMISSIONS INFORMATION

UNDERGRADUATE ADMISSIONS

The Office of Admissions provides information to prospective students interested in attending Cameron University and typically serves as the first point of contact for prospective students, their parents, and academic counselors. The Office of Admissions also coordinates campus tours, college fairs, high school presentations, and other recruitment events throughout the year. For further information, visit the [Office of Admissions](#) website, call (580) 581-2289 or 1-888-454-7600, or e-mail admissions@cameron.edu.

ADMISSIONS COUNSELORS

Admissions counselors maintain contact with area schools and residents to inform them of the educational opportunities that exist at Cameron University. The Office of Admissions is responsible for the University's recruiting program. Campus tours may be arranged through the Welcome Center. The Office of Admissions provides information about scholarships. The priority deadline for applications is **February 1**.

ADMISSION REQUIREMENTS

Standards for admission to Cameron University have been established by the Oklahoma State Regents for Higher Education. These standards are based on prospective students' residence status and previous education background.

Students must meet the criteria for both the high school curricular requirements and the high school performance requirements as defined in the following sections.

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 1020, **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 and/or 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 1020 and satisfying the curricular requirements as certified by the school, or for home study, the parent.

Individuals meeting the above criteria are eligible for admission to baccalaureate, associate in science, or associate in applied science degrees.

Associate in Arts and Associate in Science Degrees. Minimum AA and 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 arts, associate in science, or baccalaureate degree program the student must meet both the curricular and performance admission requirements.

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.

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, etc., 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 appropriate 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.

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 (National, Pre-ACT, or On-Campus ACT) composite score of 20 or higher **or** a SAT or PSAT score of 1020 (940 prior to March 5, 2016) **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 (National, Pre-ACT, or On-Campus ACT) composite score of 20 or higher **or** a SAT or PSAT score of 1020 (940 prior to March 5, 2016) 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.

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 in the absence of other credentials. Enrollment in mathematics, English, science, history, and government courses will be determined by placement tests. Enrollment beyond nine hours will require submission of official academic transcripts.

Transfer Admission

Any student who has attended another university other than Cameron University must submit official transcripts from ALL colleges attended. An undergraduate student with more than six attempted semester hours is considered a transfer student.

Transfer From Other Institutionally Accredited Oklahoma Colleges and Universities. A student may transfer to Cameron from another institutionally accredited Oklahoma college or university 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 Institutionally Accredited Out-of-State Colleges or Universities. In addition to meeting Cameron's entrance requirements, out-of-state transfer students must meet the following:

- Be in good standing in the institution from which they plan to transfer.
- Have made satisfactory progress (an average grade of "C" or better or met Cameron's retention standards, whichever is higher) at the institution from which they plan to transfer.
- Students transferring from colleges or universities that are not institutionally accredited 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.

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, the student will be admitted as a "transfer probation" student. Students seeking admission in this category must meet with an Admissions Coordinator 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 baccalaureate degrees. Additional requirements must be met: (1) completion of any prerequisites required for the baccalaureate degree or major, (2) meeting any minimum grades required for the baccalaureate degree or major, or (3) meeting any professional licensing or certifying agencies requirements that exceed the general education requirements.

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 institutionally 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.

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 [Office of Admissions](#) (580-581-2289) 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 names 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 ensure their current mailing address is on file at all times to receive all important information and notices. Students should log in to their AggieAccess accounts to update address information.

INITIAL COURSE PLACEMENT

Course placement in English, math, science, and reading courses for first-time freshmen will be determined by either ACT/SAT sub-scores, high school GPA, or computerized placement test (CPT) scores. Students who are under 21 will take CPTs unless they have either ACT or SAT scores (SAT will be equated to ACT equivalents) of 19 or higher in English, math, and reading or an unweighted cumulative GPA of 3.0 or higher on a 7 semester or final high school transcript. Adult students (age 21 or older) and active-duty military will be required to take the CPT unless they submit either optional ACT or SAT scores or have an unweighted cumulative GPA of 3.0 or higher on a 7 semester or final high school transcript.

Initial course placement for transfer students will include a transcript review for course equivalencies. Transfer students who do not have course equivalencies to establish placement in English, math and reading will be required to take the CPT unless they submit either ACT or SAT scores or have an unweighted cumulative GPA of 3.0 or higher on a 7 semester or final high school transcript.

PRIOR LEARNING CREDIT AND ASSESSMENT

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 credit for prior learning. Assessment and

awards of prior learning credit are made under policies and procedures designed to assure that reliable and valid measures of learning outcomes have been applied.

Cameron University offers students multiple options for earning college credit by demonstrating the knowledge they have gained via non-college experiences. Credit may be earned by completing standardized tests, by demonstrating course competency through departmental or national exams, by submitting International Baccalaureate transcripts, by submitting prior learning portfolios, and by submitting transcripts for workplace or military training recognized by ACE or NCCRS. In each case, credit for prior learning is awarded for verifiable skills and learning gained through the experience, and not for the experience itself.

The following regulations govern awarding of credit for prior learning at Cameron University:

- A maximum of 64 semester hours or prior learning credit may be applied toward the requirements for a baccalaureate degree.
- A maximum of 45 semester hours of prior learning credit may be applied toward the requirements for an associate degree.
- Prior learning credit may only be awarded in those academic programs approved by OSRHE to be offered at Cameron University, and must be validated by successful completion of 12 or more semester hours of academic work at CU before being placed on the student's transcript. Active duty military personnel are exempt from the 12 hour validation requirements, and may have credits placed on the transcript upon full admission and completion of first paid enrollment.
- Prior learning credit is identified on the transcript by "Adv Standing".
- The neutral grade of satisfactory (S) will be assigned to prior learning credit.
- Credit granted will be included only in the number of hours earned, not in GPA calculations.
- Credit for non-collegiate schools, such as those offered by military services, businesses, industry, unions, or governmental agencies, will be awarded according to ACE and NCCRS recommendations.
- Credit for experiential learning will be granted on course-by-course basis using institutionally-prepared exams.
- A score equivalent to a grade of "C" will be used as the minimum passing score for institutionally-prepared exams.
- Credit for military occupational specialties (MOS) will be granted on course-by-course basis.
- 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.

Further information regarding prior learning credit can be found on the [Academic Services](#) webpage.

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, 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 their 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 they hold "permanent resident status" as defined by the Immigration and Naturalization Service, evidenced by whatever documents may be required under applicable Federal law, who has resided in Oklahoma for at least 12 consecutive months, and who meets the criteria for establishment of domicile

as set forth in the policy of the Oklahoma State Regents for Higher Education.

Uniformed Services and Other Military Service/Training.

Active Uniformed Service/Discharged or Released from Active Uniformed Service for whom Oklahoma is the Home of Record. The following shall be eligible for in-state status:

- Members of the uniformed services, along with their dependent children and spouse, who provide evidence that they are full-time active duty status of more than thirty (30) days in the uniformed services **stationed in Oklahoma** or temporarily present through military orders. Further, when members of the armed services are transferred out-of-state, the member, their spouse and dependent children shall continue to be classified as in-state as long as they remain continuously enrolled.
- Regardless of the residency of the student, dependent children or spouse of a person who is currently serving as a member of the active uniformed services of the United States on full-time active duty status of more than thirty (30) days for whom Oklahoma is the home of record.
- Person, or dependent children or spouse of a person, who was discharged or released from a period of not fewer than ninety (90) days of active uniformed service and less than five (5) years before the date of enrollment in the course(s) concerned and for whom Oklahoma is the home of record.
- Former full-time active uniformed services 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.

Active Uniformed Service/Discharged or Released from Active Uniformed Service (Regardless of the Home of Record). Pursuant to Title 70, O.S., Section 3247 (as amended), the following is compliant with the eligibility criteria prescribed in the Veterans' Access, Choice, and Accountability Act of 2014.

A student who files with Cameron University a letter of intent to establish residence in the state and who **resides in the state** while enrolled at Cameron shall be eligible for in-state status if the student:

- was discharged or released from a period of not fewer than ninety (90) days of active duty uniformed service, less than five (5) years before the date of enrollment in the course(s) concerned, and is pursuing a course of education with educational assistance under Chapters 30, 31 or 33 of Title 38 of the United States Code while living in Oklahoma; or
- is entitled to assistance under Section 3311(b)(9)

or 3319 of Title 38 of the United States Code by virtue of a relationship to a person who was discharged or released from a period of not fewer than ninety (90) days of active duty uniformed services, and enrolls in the course(s) concerned within five (5) years of the date the related person was discharged or released from a period of not fewer than ninety (90) days of active duty uniformed services; or

- is a person who is the spouse/dependent of an individual currently serving as a member of the active, uniformed services of the United States on full-time, active duty status of more than thirty (30) days and is using Chapter 30 or 33 GI Bill® benefits; or
- is a recipient of the Marine Gunnery Sergeant John David Fry Scholarship and is using it as a GI Bill® benefit.

Military Reserve Member on Full-Time Active Duty. Regardless of the residency of the student, dependent children or a spouse of a person who is currently serving as a member of the military reserve on full-time active duty of more than thirty (30) days and for whom Oklahoma is the home of record shall be eligible for in-state status.

Reserve Officer Training Corps (ROTC). A student shall be eligible for in-state status regardless of the residency of the student if the student is a person who is participating in or has received a partial or full scholarship from the Air Force Reserve Officers' Training Corps, Army Reserve Officers' Training Corps or the Navy/Marines Reserve Officers' Training Corps. "Participating" is defined as any student who is fully and actively participating in all aspects of the ROTC program (class, physical fitness training, leadership training (lab)).

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 their non-resident parents.
2. The person is self-supporting as evidenced by having provided the majority of funds for their own upkeep.
3. The person must have maintained a continuous residence in Oklahoma for the period set forth above.

FINANCIAL INFORMATION

TUITION AND FEES

Tuition and other fees are established by the Oklahoma State Regents for Higher Education. All students are charged mandatory fees which includes charges for academic records, student technology, assessment, library services, student facilities, and student activities. Special fees are charged for other services which are made available to students. Descriptions for mandatory and special student fees are available [online](#).

FINANCIAL ASSISTANCE

Cameron offers many federal, state and institutional aid programs including tuition waivers, scholarships, grants, loans, and work study opportunities to assist students in their educational endeavors. The types and amounts of aid awarded are determined by financial need, student classification, academic merit, talent, and availability of funds. 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](#).

Applying for Aid

Applying for financial aid at Cameron University (CU) begins with the completion of the [Free Application for Federal Student Aid \(FAFSA\)](#). The FAFSA application is used to apply for nearly all types of financial assistance including federal, state, and institutional aid. The results of the application assist the financial aid office in determining how much and what type of aid may be awarded. Cameron University Scholarships may be viewed [online](#). All admitted students are automatically considered for all auto-matched institutional scholarships offered through the university. A small portion of institutional scholarships require the applicant to submit additional information.

Types of Aid

Federal Grants. Grants are financial awards that typically do not have to be repaid. Grants are normally awarded to students who are determined to have a high financial need based on completion of the FAFSA.

Direct Student Loans. The William D. Ford Federal Direct Loan Program allows students who are enrolled at least half-time to borrow money to help pay for and defer the cost of their college education. These programs require that all funds be repaid.

Scholarships. A scholarship is a type of financial assistance that does not have to be repaid. Funds are provided through the institution, civic and religious organizations, professional groups, foundations, corporations, and cultural groups. Scholarships are based on academic excellence, personal skills, family affiliations, athletic ability, financial need, or other factors.

Tuition Waivers. Tuition waivers are institutional gift aid used to "offset" the cost of tuition. These waivers can be applied against in-state and out-of-state tuition. Most tuition waivers are awarded based upon high school grade point average, ACT/SAT scores, high school class rank, and transfer retention grade point averages.

All admitted students are automatically considered for tuition waivers. The priority deadline to apply is **February 1**.

Work Study. Work study is a student employment program that pays students to work in a variety of positions on campus. Students can use their work study earnings to help pay for tuition, fees, housing, and other expenses. Two types of work study are available: institutionally-funded and federally-funded. Enrolled students can find [open workstudy positions on campus](#) on the Campus life page in AggieAccess.

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 VAO 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.

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 in the major field must be satisfactorily completed at Cameron.

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.

Minimum Hours in Liberal Arts and Science–Associate in Arts or Associate in Science Degrees. Associate in Arts and Associate in Science degrees must include a liberal arts and science component as follows: 37 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.

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 "AU", "AW", "I", "P", "RA", "RB", "RC", "RD", "RF", "S", "U", or "W" 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

The set of degree requirements needed for a student (undergraduate or graduate) to complete a degree is initially determined by the catalog in effect at the time of the student's initial enrollment. Students, in consultation with an academic advisor, may elect to fulfill the requirements from a more current catalog. All degree requirements in the chosen catalog must be met. Mixing of degree requirements from multiple catalog years is prohibited. Students who have had a break in enrollment at CU for one or more years (from the end of the last semester in which they were enrolled) will automatically be assigned to the current catalog year and required to meet current requirements.

Curricular requirements for baccalaureate and associate degrees can be changed for students only to the extent that such changes do not delay graduation or add additional hours to the program.

DEGREE WORKS (DEGREE AUDIT)

Degree Works provides an individualized degree audit for students using their specific major and catalog year. Each degree audit includes detailed information such as completed general education, university, major, concentration, and minor requirements, the courses applied to each requirement, the semester courses were taken, the grade in each course, and the requirements that remain incomplete. The online degree audit can be a useful tool in the advisement process, but it is not an official degree check and should not replace regular consultation with your academic advisor.

Students may view their individual Degree Works audit online in [AggieAccess](#) by clicking the My Info tab, under the Student Quick Links channel, click Degree Works, enter student ID, and the audit will display. An academic advisor can assist individual students with interpreting their Degree Works audit.

TRANSFER CREDIT FROM INSTITUTIONALLY 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.

Transfer credits from institutionally accredited colleges or universities may be accepted in transfer to meet major or minor requirements upon review by the chair of department, or in some instances, other faculty, in the department offering the major or minor. Final approval of applicable transfer credits to meet major or minor requirements rests with the chair of the department offering the major or minor and the dean of the school. The Vice President for Academic Affairs or designee is ultimately responsible for determining the applicability of transfer credits to meet general education requirements.

Transcripts of record from colleges and universities accredited by institutional accreditors will be given full value. Transcripts of record from degree granting institutions accredited by organizations recognized by the United States Secretary of Education are subject to review and may transfer on a course-by-course basis.

TRANSFER CREDIT FROM NON- INSTITUTIONALLY 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.

Transcripts of record from colleges and universities accredited by institutional accreditors will be given full value. Transcripts of record from degree granting institutions accredited by organizations recognized by the United States Secretary of Education are subject to review and may transfer on a course-by-course basis.

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 additional requirements for the second 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 their 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 must submit a graduation application online via [AggieAccess](#) 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 their official transcript from the Registrar's Office at no charge. Students may request [transcripts](#) online, by mail/e-mail/fax, or in-person. Visit website for more information.

PRESENCE AT COMMENCEMENT EXERCISES

An annual commencement exercise is conducted at the end of the spring semester. Students who have completed or plan to 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 in which a student is enrolled.

- Academic load for a regular semester is 15 semester hours and for a summer or 8-week session is 9 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 a retention 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. A student who meets these qualifications should contact the Registrar's Office to have their maximum hours raised.
- All other overloads must be recommended by a student's 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, or short course can never exceed one and one-half times the number of weeks in the semester, summer session, or short course.

FULL-TIME UNDERGRADUATE STUDENT

An undergraduate 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. Students who wish to stay on track to graduate in four years will need to average 15 hours per regular semester or 30 hours per academic year. Some university scholarships and awards may require enrollment in 15 hours per semester.

UNDERGRADUATE STUDENT CLASSIFICATION

Freshman:	0-29 semester hours earned
Sophomore:	30-59 semester hours earned
Junior:	60-89 semester hours earned
Senior:	90 or more semester hours earned

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 considered late enrollment. Late enrollments require permission from the instructor(s), chair(s), and dean(s) responsible for the course(s) in which a student wishes to enroll as well as the

Vice President for Academic Affairs or designee. Any student enrolling late will be responsible for making up all work of the classes in which they enroll but is not guaranteed credit for any late work.

CHANGING COURSE SCHEDULES

Students who wish to make schedule changes must adhere to the following deadlines:

- *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.
- *Withdrawing from Courses.* Courses from which a student withdraws 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."

Students may not withdraw from classes after the twelfth week of a regular semester or proportionate period of other sessions.

To add, drop, or withdraw from a class, students may contact the Academic Advising Center, Student Support Services, the Registrar's Office, or CU-Duncan. Students with departmental advisors may process their own adds, drops and withdrawals in AggieAccess using a PIN number provided by an assigned advisor.

Non-attendance or ceasing to attend class does not constitute official withdrawal.

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 they 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 they are 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. It is a student's responsibility to note these instructions and follow them consistently and carefully.

LEAVE OF ABSENCE DUE TO MILITARY SERVICE

Cameron University will grant a leave of absence, which shall not exceed a cumulative five (5) years, to a student who is a member of the active uniformed military services of the United States and called to active duty. The student shall be eligible to:

1. Withdraw from any or all courses for the period of active duty service without penalty to admission status or GPA and without loss of institutional financial aid; or
2. Receive an "I" for any or all courses for the period of active duty status irrespective of the student's grade at the time the "I" is awarded; provided, however, that the student has completed a minimum of fifty percent (50%) of all coursework prior to being called to active duty and the student completes all courses upon return from active duty. The student's admission status and GPA shall not be penalized and the student shall not experience loss of institutional financial aid.

Military 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.

EXCUSED ABSENCES DUE TO RELIGIOUS HOLIDAYS

It is the policy of the university to excuse the absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays. Where applicable, it is assumed that students will consider the religious holiday schedule in advance of enrolling in courses and notify instructors in advance of any absence due to observance of religious holidays.

WITHDRAWING FROM THE UNIVERSITY

Non-attendance or ceasing to attend a class does not constitute official withdrawal. It is a student's responsibility to complete the withdrawal process. A student may not withdraw during the last four weeks of a semester or proportionate period of other sessions. A student who is unable to personally complete the withdrawal process due to unavoidable circumstances should contact the Registrar's Office as soon as possible.

CREDIT HOURS

Cameron University strictly adheres to the policies of the Oklahoma State Regents for Higher Education when defining academic sessions and credit hours (OSRHE Policy and Procedures Manual, Section 3.18.3.) Per OSRHE mandate, all classes taught during the standard term are expected to meet for sixteen, twelve, or eight weeks in the Fall or Spring semesters; four, six, 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 OSRHE.

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.

- A student enrolled in a Study Abroad course is earning course credit, therefore, the course will be considered part of the student's enrollment status for determining Title IV financial aid eligibility.

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; a course numbered 0103 is a developmental (non-college level) course carrying three semester hours of enrollment (will not contribute to hours attempted or earned).

DEVELOPMENTAL COURSES

Developmental courses are taken to prepare students for college-level work. Courses cannot be used to meet degree requirements. All developmental coursework must be completed within the first 24 collegiate hours attempted. Successful course completion requires a grade of "RC" or better.

PREREQUISITES AND COREQUISITES

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; corequisites are courses or conditions that must be taken **simultaneously with** another course. Prerequisites and corequisites are listed with the course descriptions.

GRADING SYSTEM

Academic performance at Cameron University is evaluated using the following grading system:

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 NOT USED IN CALCULATING GPA	
GRADE	NOTE
RA, RB, RC, RD, RF	REMEDIAL/DEVELOPMENTAL
S	SATISFACTORY
U	UNSATISFACTORY
P	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

"RA-RB-RC-RD-RF" Grades. The grades of "RA-RF" are used in grading zero-level or developmental courses. Developmental courses are not applicable to any degree requirements and do not contribute to hours attempted or earned. The "RA-RF" grade is GPA neutral.

"S-U" and "P-NP" Grades. The grades of S (satisfactory), U (unsatisfactory), P (Pass), and NP (No Pass) may be used in grading certain courses at the discretion of the instructor offering the course, with prior approval of the department chair. When a course is selected for S-U or P-NP grading, the entire class must be graded on the same basis. The grade of "S" will also 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. At the undergraduate level, a grade of "S" signifies work of D quality or better (except in the case of credit earned by advanced standing examination, when the grade of "S" represents work of C quality or better). While all four grades "S, U, P, NP" are GPA neutral, they are counted in the total number of attempted hours for retention and the total number of attempted and earned hours for graduation.

"W" Symbol. A "W" may be awarded only if the student initiated and completed withdrawal from a course during the allowable withdrawal period. The "W" grade is GPA neutral.

"AW" Symbol. An "AW" is assigned by the Vice President for Academic Affairs or designee to indicate that the student was "involuntarily" administratively withdrawn

from class(es) after the institution's drop/add period for disciplinary or financial reasons or inadequate attendance. The "AW" grade is GPA neutral.

"AU" Symbol. Audit status is used for a student who is not interested in obtaining a course grade, but who is enrolled to get course content knowledge. The "AU" grade is GPA neutral.

"I" Symbol. An incomplete may be given (at an instructor's discretion) to a student to indicate that additional work is necessary to complete the course. It is not a substitute for an "F," and no student may be failing a course at the time an "I" grade is awarded. To receive an "I" grade, the student should have satisfactorily completed a substantial portion of the required course work for the semester or session. 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 Incomplete Grade Form that is filed with the Registrar's Office.

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.

"JA-JB-JC-JD-JF-JU-JS" Grades. Only 64 hours are allowed to transfer from a two-year institution. If more than 64 hours are earned, classes will be noted with the above grades and will not satisfy any credit hour requirement, but will be included in retention and cumulative grade point averages.

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 their chair and dean. In the event of the instructor's absence, death, or disability, the grade may be changed by the Department Chair.

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. Students must maintain 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. Students with 0 to 30 semester hours attempted and a retention GPA of 1.7 to 1.99 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 they are 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 are not allowed to attend for one regular (Fall or Spring), although a student may appeal for immediate reinstatement. Two categories of students who may appeal for immediate reinstatement, with the understanding that reinstatement does not remove the record of suspension.

1. Students suspended due to "extraordinary personal circumstances" will have requests for immediate reinstatement 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, they cannot return to the university until such time as they have demonstrated, by attending another institution, the ability to succeed academically by raising their 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.

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.

ACADEMIC FORGIVENESS POLICY

Academic forgiveness provides a means for classifying certain courses as "reprieved" or "forgiven" to exclude them from a retention/graduation grade point average (GPA). For students receiving forgiveness, the transcript will reflect a retention/graduation GPA, excluding forgiven courses/terms, and a cumulative GPA, which includes all regularly graded course work.

Academic Renewal. A student may request Academic

Renewal by submitting a completed [Request for Academic Renewal](#) form to the Registrar's Office.

The following guidelines apply:

1. Student must be currently enrolled.
2. At least five years must have elapsed between the last semester being renewed and the renewal request.
3. Prior to requesting Academic Renewal, the student must have earned a GPA of 2.0 or higher with no grade lower than a "C" in all regularly graded course work (a minimum of 12 hours) excluding activity or performance courses.
4. The request will be for all courses completed before the date specified in the request for renewal.
5. All courses remain on the student's transcript, but are not calculated in the student's retention/graduation GPA. Neither the content nor credit hours of renewed course work may be used to fulfill any degree or graduation requirements.

Academic Reprieve. A student may request academic reprieve by submitting a completed [Request for Academic Reprieve](#) form to the Registrar's Office.

The following guidelines apply:

1. Student must be currently enrolled.
2. At least three years must have elapsed after the semester/term in which the grades were earned.
3. Subsequent to the semester/term for which reprieve is requested and prior to requesting the reprieve, a student must have earned a GPA of 2.0 or higher, with no grade lower than a "C" in all regularly graded course work (a minimum of 12 semester hours) excluding activity or performance courses.
4. Reprieve may be granted for no more than two consecutive semesters/terms of enrollment.
5. A student may not receive more than one academic reprieve.
6. All courses remain on the transcript, but are not calculated in the retention/graduation GPA. Course work with a passing grade included in a reprieved semester may be used to demonstrate competency in subject matter. However, the course work may not be used to fulfill credit hour requirements.

Forgiven Course. A student may have a course forgiven by submitting a completed [Request for Forgiven Course](#) form to the Registrar's Office.

The following guidelines apply:

1. Student must be currently enrolled.
2. A student may repeat a limited number of courses in which a "D" or "F" was awarded and have the first grade earned forgiven (excluded) from calculation of a retention/graduation GPA. The second grade, as well as any subsequent grade, earned is used in calculating the retention/graduation GPA, even if the grade is lower than the first grade. The exclusion of forgiven courses from the

retention/graduation GPA is limited to the first four repeated courses, not to exceed 18 hours.

3. Students repeating courses beyond the first 18 semester hours of “D” or “F” may do so with the original and repeat grades averaged in the GPA. Repeated courses will not be counted toward hours earned for graduation.

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 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 HONOR ROLLS

The Dean’s Honor Roll, 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 Honor Roll. Full-time status is determined by semester hours earned 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.

ORIENTATION

All entering students who have earned fewer than 15 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](#) (580-581-5900) 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 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 phone (580) 581-6741 or email

advisingcenter@cameron.edu. An academic advisor for Cameron University-Duncan students is located on the Duncan Campus and can be reached by calling 877-282-3626.

FINANCIAL RESOURCE SPECIALIST

On the Lawton campus, the Financial Resource Specialist is available to answer questions about applying for financial aid, including federal grants and loans and institutional and external scholarships. The Financial Resource Specialist also offers coaching on financial literacy topics.

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, (580) 581-2293, or financialaid@cameron.edu.

ON-CAMPUS HOUSING

On-campus housing provides the opportunity for involvement within a living-learning community. Cameron University provides two 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](#) (580-581-2392; housing@cameron.edu) for further information about living on campus.

STUDENT DEVELOPMENT

The Office of Student Development offers services, programs and activities designed to enhance the collegiate experience and to foster both academic excellence and personal growth. The Office of Student Development is responsible for Career Services, Disability Services, Inclusion and Student Success, and Judicial Affairs. Comprehensive workshops, programs, and training opportunities for student engagement, student success, as well as global learning, cultural understanding, and professional development are offered. [The Office of Student Development](#) and our student organization, the Cameron University [Diversity Diplomats](#), seek to foster equity and innovation and increase competencies among students to cultivate an inclusive and progressive university. For additional information, please call (580) 581-2209 or e-mail student_development@cameron.edu.

STUDENT ENRICHMENT CENTER

The [Student Enrichment Center \(SEC\)](#) provides a variety of support services to students facing obstacles to successful degree completion. Student Success Coaches work individually with students to improve study skills and navigate academic life. Financial Resource Specialists

answer questions about applying for financial aid, including federal grants and loans and institutional and external scholarships. The Financial Resource Specialists also offer coaching on financial literacy topics. The Community Resource Coordinator connects students with a variety of community resources that address food, housing, mental health, healthcare, and other needs. The Work-based Learning Experiences Coordinator helps students develop job skills and professional development through the work-study program, job shadowing, and internships. The Student Enrichment Center is funded through a Title III Strengthening Institutions Federal Grant. The SEC is located on the second floor of Nance Boyer in Room 2075. For more information, contact Student Enrichment Center at (580) 581-5908.

DISABILITY SERVICES

Cameron University recognizes that all students deserve an equal opportunity to participate in university life and attain a higher education. The [Office of Student Development](#) 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 (580-581-2209, 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 Cameron community and the general public. Tests offered include National and Residual ACT (American College Test), CLEP (College-Level Examination Program), DSST (DANTES Subject Standardized Tests), 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; 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 (580) 581-2502 or testingcenter@cameron.edu.

Cameron University–Duncan’s Testing Center offers the On-Campus 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.

CAREER SERVICES

[Career Services](#) assists students and alumni in achieving their career goals by providing excellent career-related resources, programs, services, and opportunities that equip and empower them for the workforce. For more information, contact Career Services, located in the Office of Student Development, (580) 581-2209, hirecameronaggies@cameron.edu.

TRIO PROGRAMS

Cameron University hosts three [TRIO](#) programs that are funded under the Higher Education Act. 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 sections of certain 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** college student pursuing 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, (580) 581-2352.

Open Doors

[Open Doors](#) (Educational Talent Search) is an outreach program that provides information, educational guidance counseling, and support for Lawton Public School secondary students whose parents did not complete a Bachelor’s degree and/or come from low-income households. Offices opened for this community outreach project in 1991. For more information, contact Open Doors, (580) 581-5581.

Upward Bound

[Upward Bound](#) was established on campus in 1991 to provide rigorous academic instruction, individual tutoring and personal, career, and academic counseling for Lawton Public School, college-bound, high school students who come from low-income households. For more information, contact Upward Bound, (580) 581-5581.

ACADEMIC SUPPORT SERVICES

[The Center for Academic Success](#), located on the second floor of Nance-Boyer Hall, 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 student use.

[The Language Learning Center](#) is located on the second floor of Nance Boyer Hall in Room 2005. All CU students may use the Center's media programs to study more than 36 foreign languages.

[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 student use. 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, 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 (580-581-2484). 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](#) is located on the first floor of Ross Hall in Room 100, and provides computers for student use.

LIBRARY

[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.

Reference: (580) 581-2957
 Circulation: (580) 581-2955/2956
 Interlibrary Loan: (580) 581-2382

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 18 nationally and internationally recognized honor and professional societies that 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 appropriate academic department.

CAMPUS LIFE

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

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 (MCC) is a state-of-the-art student activities facility located in the heart of the campus. The MCC houses the Clarence Davis Student Union, which provides students with a place to study, dine, and interact with each other, complete with a food court and game room. Other amenities include the Inasmuch Art Gallery, student activity area, study hall, meeting rooms, and the McCasland Ballroom, a divisible ballroom available to the community for proms, weddings, workshops, banquets, and other special events.

The McMahon Center, located adjacent to Cameron Village, provides students a place to relax and study. The facility features a fireplace, television, pool table, library, computer lab, and more. The facility also serves as host to press conferences, luncheons, and social activities. The McMahon Center also houses the Office of Residence Life and a faculty-in-residence.

Cameron Stadium seats approximately 10,000 people around artificial turf and is the site of the university's gala commencement ceremony each spring. The stadium is used by local area high schools on a regular basis for football games. In addition, marching band tournaments still fill the air with music, and concerts are often held here as well.

McCord Field is a baseball park complete with concession facilities, press box, and ample parking. It has a seating capacity of approximately 1,000.

The McMahon Field and Athletics Center is the home of the Aggie softball team and also provides a weight room for all Aggie athletes in addition to an indoor practice area with batting cages utilized by both softball and baseball teams. The complex also includes dressing and locker rooms for the softball team and umpires, a press box, a concession facility, an equipment storage room, covered bleachers, and landscaped patio spaces with sun shades for additional viewing areas.

Aggie Gym is located on the northern edge of campus across from the University's administration building. In addition to the arena, the facility also houses a complete training room, weight room, classroom space, coaches' offices, four locker room areas, and boasts a seating capacity of nearly 1,800.

The Streich-Henry Tennis Complex, built in 1978, houses the home courts of Cameron's nationally ranked men's and women's tennis teams. The complex features eight courts, allowing the Aggies to host a variety of events ranging from dual matches to multi-team high school regional tournaments. The complex is located directly west of the Shepler Center dormitories, allowing for ample parking at Cameron tennis events, and features a multi-faceted structure that provides covered bleachers, restrooms and a locker room area for the Aggies.

The [Aggie Rec Center](#) is a 30,000 sq. ft. facility that 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 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](#), (580) 581-2209, North Shepler Room 314, or 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 (580) 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](#), (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

Cameron recognizes more than 60 student organizations with varying interests. The focus of the groups range from academic to social to religious to political. By participating in departmental clubs, honor societies, and special interest organizations, students develop life skills and enrich their college experience. Students interested in joining or starting a group should contact the [Office of Campus Life](#), (580) 581-2217.

Cultural Programs

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

The Lectures 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, offers multiple annual musical and theatrical productions, and offers student musicians a choice of wide array of instrumental ensembles and choirs. Cameron's award-winning [Speech and Debate Team](#), sponsored by the Department of Communication, English and Foreign Languages, competes at the national level.

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.

Cameron University's Academic Festivals are dynamic, privately funded symposia that provide in-depth study into a single topic over the course of an academic year. Held every three years, these festivals feature nationally recognized speakers and unique public events. Cameron's academic festival series has established a reputation for bringing thought-provoking, informative and entertaining speakers to Southwest Oklahoma. More information about previous or upcoming [Academic Festivals](#) is available online.

Intercollegiate Athletics

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

The Cameron Aggies are proud members of both NCAA Division II and the Lone Star Conference and compete in 13 intercollegiate sports: Men's baseball, basketball, cross country, track, golf, and tennis; women's softball, basketball, volleyball, cross country, track, golf, and tennis. The Aggies have a long-standing tradition of excellence and have won a remarkable number of conference, regional, and national championships. 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 Director of Athletic Administration, 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 (580) 581-2217.

Esports

The Pickaxes, CU's esports team, competes at the varsity level in "League of Legends®" and "Overwatch®," as well as "Rocket League®" and "Super Smash Bros®." The Pickaxes Esports Arena is located in the Academic Commons 131 Suites. Team members compete using advanced gaming PC battlestations, and the Pickaxes Shoutcasters broadcast matches through Twitch® and YouTube®. CU students compete with other universities and in events throughout the year for a chance to win prizes and scholarships and prestige. Established with a generous grant from the McMahon Foundation in 2019, *The Pickaxes* is open for tryouts to all fulltime CU students. Esport athletes and broadcast shoutcasters are required to have a minimum GPA and attend scheduled practices, scrimmages, tournaments and events through

the regular school year.

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 Collegian (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*, 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 Gold Mine

[The Gold Mine](#) began in 2009 as a student produced journal. From the submissions, editing, layout and print—the entirety of the journal is a creation of volunteer Cameron University students. The journal features nonfiction and fiction stories, poetry, and art work from current CU students. The journal is available in print and online.

KCCU Radio

[KCCU FM](#) is the public radio voice of Cameron University, featuring programming from National Public Radio (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. FM stations, along with 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 features a bulletin board of daily activities and events of interest to students, faculty, and staff members. The Department of Communication, English and Foreign Languages 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 that explains university policies and procedures and provides that information for all aspects of university life. Students are responsible for knowing its contents. For questions regarding the Student Handbook, please contact the [Office of Student Services](#), North Shepler 324, (580) 581-2244.

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 Registrar's Office. This information consists of:

- *Full name*
- *Mailing address*
- *Telephone number*
- *Enrollment status*
- *Academic classification*
- *Degrees and awards received*
- *Dates of attendance*
- *Date of graduation*
- *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 Registrar's Office 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, (580) 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 they decide not to release the information, an appeal to secure the information may be made to the university president.

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, deli subs and sandwiches, hot grill items, “grab and go” items, coffee, smoothies, and other drinks. Items may be purchased using cash, credit, or an AggieOne card. The Shepler Cafeteria, located between the two Shepler towers, is open to all students, staff, and faculty. 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 gifts that students can purchase to show their school spirit. The bookstore also stocks a selection of trade books. 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 [online](#) as well.

The 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

Cashiers for Cameron University are located at the 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 Tower offers medical care to students for acute conditions, mental health counseling,

monthly education programs, and interactive workshops. The Student Wellness Center is open Monday through Friday; daily hours vary. Medical services are provided on a walk-in basis. Counseling services are provided by appointment.

Most students who are actively enrolled on the main campus are eligible for medical services. All students who are enrolled in at least one course 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](#) (580-581-2838 or 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 through the [Office of Alumni Relations](#); (580-581-2988; or alumni@cameron.edu.)

GENERAL EDUCATION PURPOSE AND OUTCOMES

BACCALAUREATE, ASSOCIATE IN ARTS, AND ASSOCIATE IN SCIENCE PROGRAMS

In accordance with its mission, Cameron University's baccalaureate, AA, 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.

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, Associate in Arts, or Associate in Science degree should possess. By the time students complete the general education program for baccalaureate, AA and AS programs, they should be able to:

- The student will access information from credible sources and use it effectively and responsibly. ([Information Literacy](#))
- The student will demonstrate knowledge of similarities and differences among cultures. ([Diversity](#))
- The student will apply critical thinking skills in order to make informed decisions and evaluations. ([Critical Thinking](#))
- The student will demonstrate an understanding of ethical conduct in a defined context. ([Ethics](#))
- The student will make informed and reasoned responses to questions of aesthetics. ([Aesthetics](#))
- The student will apply knowledge and logic to solve problems. ([Problem Solving](#))
- The student will effectively communicate in oral forms. ([Communication-Oral](#))
- The student will effectively communicate in written forms. ([Communication-Written](#))
- The student will identify wellness concepts that contribute to healthy lifestyle behaviors. ([Wellness](#))

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

GENERAL EDUCATION REQUIREMENTS

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

COMMUNICATION9 hours

ENGL 1113 and ENGL 1213
COMM 1113

MATHEMATICS.....3-5 hours

MATH 1413, MATH 1463, MATH 1513, MATH 1613,
MATH 2215, MATH 2713, or STAT 1513

SCIENCE8-9 hours

One course must be taken from each of the following two categories, one course **must** be a laboratory science:

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

Physical Science (4-5 hours): ASTR 1104, CHEM 1004, CHEM 1105^L, CHEM 1364/1361^L, ESCI 1135^L, GEOG 1014, PHYS 1115^L, PHYS 2015^L, or PSCI 1054

^LDesignated laboratory science course.

AMERICAN HISTORY3 hours

HIST 1483 OR HIST 1493

POLITICAL SCIENCE.....3 hours

PS 1113

HUMANITIES6 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): Any 1000-level Foreign Language or Non-English language course, ARBC 1113, ARBC 1223, CHNS 1113, CHNS 1223, CMCH 1113, CMCH 1223, ENGL 2313^H, ENGL 2323^H, ENGL 2343^H, FNAR 1013^H, FREN 1113, FREN 1223, GEOG 2243, GERM 1113, GERM 1223, HIST 1113, HIST 1123, HIST 2113, HIST 2223, ITAL 1113, ITAL 1223, LATN 1113, LATN 1223, MUSC 1033^H, PHIL 1113, PRSN 1113, PRSN 1223, RUSN 1113, RUSN 1223, SOCI 3013, SPAN 1113, SPAN 1223, SWLI 1113, or SWLI 1223

Aesthetics (3 hours): ART 1013, ART 2613, ART 2623, ENGL 2013, ENGL 2053, ENGL 2313^H, ENGL 2323^H, ENGL 2343^H, FNAR 1013^H, MUSC 1013, MUSC 1023, MUSC 1033^H, MUSC 1413, or THTR 1103

^HCourses listed in both categories may only be used to fulfill one category.

BEHAVIORAL SCIENCE3 hours

FAMS 1123, PSY 1113, or SOCI 1113

ECONOMICS3 hours

AGRC 2013, ECON 2003, ECON 2013, or GEOG 3023

HEALTH AND WELLNESS*4 hours

SES 2003, SES 2013, SES 2023, MSL 1112, 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 ELECTIVES (TO TOTAL AT LEAST 44 HOURS)**

**Must be selected from the above list of approved courses, exclusive of courses with the MSL or PE prefix.

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:

- The student will demonstrate an understanding of ethical conduct in a defined context. ([Ethics](#))
- The student will effectively communicate in written forms. ([Communication-Written](#))
- The student will apply critical thinking skills in order to make informed decisions and evaluations. ([Critical Thinking](#))

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

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.

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 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 students and transfer students with fewer than 24 earned collegiate hours and 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 the Oklahoma State Regents for Higher Education high school curricular requirements, or
2. satisfactorily completing a computer literacy

assessment, or

3. successfully completing courses designated as program requirements.

Courses such as IT 1013 Introduction to Computer Information Systems, and MIS 2113 Fundamental MIS Tools and Skills 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 baccalaureate 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 programs. 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 their declared major. Please see the program requirements for each major for details.

TEACHING AND LEARNING

FACULTY AND STAFF

Margery Kingsley–Associate Vice President for Academic Affairs

INSTRUCTOR

Corey Sanders

ACADEMIC SERVICES

Kyle Jarman–Director

CENTER FOR ACADEMIC SUCCESS AND CENTER FOR WRITERS

Rachel Mozingo–Academic Success Coordinator

LIBRARY

Barbara Pickthorn–Interim Assistant Director

MATHEMATICS LABORATORY

Colt Meyer–Director

STUDENT SUPPORT SERVICES

Doreen Thomas–Director

STUDENT ENRICHMENT CENTER

Vacant–Student Success Coordinator

MISSION STATEMENT

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.

PROGRAMS OF STUDY

Degrees & Majors: A.S. Interdisciplinary Studies
B.S. Interdisciplinary Studies

COURSE DESCRIPTIONS

Course descriptions for the following course prefix offered in the office are located at the end of the catalog: [University \(UNIV\)](#).

GENERAL INFORMATION

The Office of Teaching and Learning is comprised of the Academic Advising Center, Center for Academic Success and Center for Writers, Library, Mathematics Laboratory, Student Support Services, and the Testing Center, Student Enrichment Center.

UNIVERSITY INTERDISCIPLINARY DEGREES

Interdisciplinary Studies degrees are customized to the needs of the individual student. As a result, students wishing to declare a major in Interdisciplinary Studies must take the following steps:

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 AVPAA.
2. Changes in the plan of study must be approved by the advisor and AVPAA.
3. 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.


Degree Requirements: Interdisciplinary Studies (365)–Associate in Science

Office of Teaching and Learning

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (UNIV 2543)	Capstone Experience (UNIV 2543)
Concentration Requirements* (21 hours)		
Required Courses (3 hours)	Primary and Secondary Disciplines (18 hours)	
UNIV 2543 IDS-AS Capstone Experience (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	Primary Discipline (9 hours) A minimum of 9 hours must be completed in the primary discipline. 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. Only courses approved by the department chair of each discipline will meet this requirement.	
	<i>*Courses selected from two disciplines which in their aggregate comprise a rational combination of skills and concepts.</i>	
General Electives (To Complete 66 hours)		
Graduation Requirements		
Department Requirements	Minimum 37 Liberal Arts & Science Credit Hours	
Minimum 66 Total Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 15 Credit Hours in Residence at Cameron	Complete Graduation Application Online	



Degree Requirements: Interdisciplinary Studies (360)–Bachelor of Science
Office of Teaching and Learning
Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (UNIV 4543)	Capstone Experience (UNIV 4543)
Concentration Requirements* (51 hours)		
Required Courses (3 hours)	Primary and Secondary Disciplines (48 hours)	
UNIV 4543 IDS-BS Capstone Experience (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	<p>Primary Discipline (30 hours) A minimum of 30 hours must be completed in the primary discipline. Only courses approved by the department chair of each discipline will meet this requirement.</p> <p>Secondary Discipline (18 hours) A minimum of 18 hours must be completed in the secondary discipline. Only courses approved by the department chair of each discipline will meet this requirement.</p> <p><i>*Courses selected from two disciplines which in their aggregate comprise a rational combination of skills and concepts.</i></p>	
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	

SCHOOL OF GRADUATE AND PROFESSIONAL STUDIES

ADMINISTRATION

Jennifer Dennis-Dean

DEPARTMENT OF BUSINESS

Krystal Brue-Chair

DEPARTMENT OF COMPUTING AND TECHNOLOGY

Muhammad Javed-Chair

DEPARTMENT OF EDUCATION

Stephanie Boss-Chair (Interim)

DEPARTMENT OF PSYCHOLOGY

Shaun Calix-Chair

DEPARTMENT OF SOCIAL SCIENCES

Lance Janda-Chair

DEPARTMENT OF SPORTS AND EXERCISE SCIENCE

Stephanie Boss-Chair

MISSION STATEMENT

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.

GENERAL INFORMATION

The School provides undergraduate coursework in the fields of Business, Computing and Technology, Education, Organizational Leadership, Psychology, Social Sciences, and Sports and Exercise Science. 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

FACULTY

CHAIR–Krystal Brue, Associate Professor

PROFESSORS–S. Ahmed, A. Sukar, A. Walton

ASSOCIATE PROFESSORS–J. Masters

ASSISTANT PROFESSORS–K. Hardin, M. Penick, A. Soylyu, G. Treadwell

SENIOR INSTRUCTOR–B. Lonzanida

MISSION STATEMENT

The Cameron University Department of Business exists to educate and prepare the diverse students it serves to become skilled professionals who add value to their organizations, their professions, and their communities. The Department strives to expand understanding of the effective and efficient operation of organizations and their dynamic environments. The Department creates a student-centered approach to lifelong learning as well as innovative and experiential business-based learning opportunities.

PROGRAMS OF STUDY

Degrees & Majors: A.S. Business
 B.Acc. Accounting
 B.B.A. Business Administration

- Finance
- General Business Administration
- Management
- Marketing

B.S. Organizational Leadership
 M.B.A. Business Administration
 M.S. Organizational Leadership

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Accounting \(ACCT\)](#), [Business \(BUS\)](#), [Economics \(ECON\)](#), [Finance \(FIN\)](#), [Management \(MGMT\)](#), [Marketing \(MKTG\)](#), and [Organizational Leadership \(ORGL\)](#).

GENERAL INFORMATION

The Cameron University Department of Business is a department of the School of Graduate and Professional Studies and is accredited by ACBSP, a specialized accreditation association for business education which embraces teaching excellence.

The Department of Business offers education and experiences in a variety of business disciplines at the Associate, Bachelor and Master level. Programs are continually updated to ensure students are receiving cutting edge business knowledge to prepare them for successful careers in the business and entrepreneurial arenas.

STUDENT ORGANIZATIONS

Accounting Club–The purpose of the accounting and Business Club is to encourage growth and academic excellence, as well as bring a closer relationship among those who are business and accounting majors. We sponsor field trips to various Accounting and Business offices; we closely work with the Oklahoma Society of CPAs and the Oklahoma Accountancy Board; we are actively involved in volunteer efforts, university projects, and various community services.

Cameron University Chapter of the Society for Human Resource Management (CU SHRM)–CU SHRM provides Cameron University students with opportunity to gain knowledge and insight into the effective management of human capital in the field of Human Resource Management through affiliation with Great Plains SHRM (the local SHRM professional chapter) and the SHRM National organization.

Delta Mu Delta–Delta Mu Delta is a national honor society which recognizes students who have excelled in the field of business administration. Membership in Delta Mu Delta is available to juniors, seniors and graduate students only.

Delta Sigma Pi–Delta Sigma Pi is a professional fraternity organized to foster the study of business in universities; to encourage scholarship, social activity and the association of students for their mutual advancement by research and practice; to promote closer affiliation between the commercial world and students of commerce, and to further a higher standard of commercial ethics and culture and the civic and commercial welfare of the community.


Degree Requirements: Business (505)–Associate in Science

School of Graduate and Professional Studies

Department of Business

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113 or SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1463, 1513, 1613, 2215, 2713	PS 1113	ECON 2013
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (MIS 2113)	Capstone Experience (BUS 2903)
Major Requirements (24 hours)		
Required Courses (21 hours)	Additional Requirement (3 hours)	
ACCT 2013 Prin of Financial Accounting (FA, SP) ACCT 2023 Prin of Cost/Managerial Accounting (FA, SP) BUS 1113 Introduction to Business (FA, SP) BUS 2113 Business Communications (FA, SP) BUS 2903 Management Skills (FA, SP) ECON 2023 Principles of Microeconomics (FA, SP) FIN 2113 Personal Finance (FA, SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	MIS 2113 Fundamental MIS Tools and Skills	
General Electives (To Complete 69 hours)		
Graduation Requirements		
Department Requirements Minimum 15 Credit Hours in Residence at Cameron Minimum 37 Liberal Arts and Science Credit Hours Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online		



Degree Requirements: Accounting (305)–Bachelor of Accounting
 School of Graduate and Professional Studies
 Department of Business
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113 or SOCI 1113
Mathematics (3–5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1463, 1513, 1613, 2215, 2713	PS 1113	ECON 2013
Science* (8–9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (MIS 2113)	Capstone Experience (BUS 4633)
Major Requirements (72 hours)		
Core Courses (48 hours)	Specialization (24 hours)	
ACCT 2013 Prin Financial Acct (FA, SP) ACCT 2023 Prin Cost/Managerial Acct (FA, SP) BUS 1113 Intro to Business (FA, SP) BUS 2113 Business Communication (FA, SP) BUS 2903 Management Skills (FA, SP) BUS 3213 Business Law I (FA, SP) BUS 4633 Business Policy (FA, SP) ECON 2023 Prin Microeconomics (FA, SP) FIN 2113 Personal Finance (FA, SP) FIN 3603 Prin Finance (FA, SP) MGMT 3013 Prin Management (FA, SP) MGMT 4053 Business, Ethics, and Society (FA, SP) MIS 2113 Fundamental MIS Tools and Skills (FA, SP) MIS 3013 Management Info Systems (FA, SP) MKTG 3413 Prin Marketing (FA, SP) STAT 2613 Business Statistics (FA, SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	ACCT 3013 Intermediate Accounting I ACCT 3023 Intermediate Accounting II ACCT 3133 Cost Accounting ACCT 4013 Individual Income Tax ACCT 4213 Auditing ACCT 4513 Accounting Info Systems Upper Division ACCT Electives (6 hours)	
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 40 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of Last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	



Degree Requirements: Business Administration (320)-Bachelor of Business Administration
 School of Graduate and Professional Studies
 Department of Business
 Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113 or SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1463, 1513, 1613, 2215, 2713	PS 1113	ECON 2013
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (MIS 2113)	Capstone Experience (BUS 4633)
Major Requirements (63 hours)		
Core Courses (48 hours)		
ACCT 2013 Prin Financial Acct (FA, SP)	FIN 2113 Personal Finance (FA, SP)	
ACCT 2023 Prin Cost/Managerial Acct (FA, SP)	FIN 3603 Prin Finance (FA, SP)	
BUS 1113 Introduction to Business (FA, SP)	MGMT 3013 Prin Management (FA, SP)	
BUS 2113 Business Communication (FA, SP)	MGMT 4053 Business, Ethics, and Society (FA, SP)	
BUS 2903 Management Skills (SP)	MIS 2113 Fundamental MIS Tools and Skills (FA, SP)	
BUS 3213 Business Law I (FA, SP)	MIS 3013 Management Info Systems (FA, SP)	
BUS 4633 Business Policy (FA, SP)	MKTG 3413 Prin Marketing (FA, SP)	
ECON 2023 Prin Microeconomics (FA, SP)	STAT 2613 Business Statistics (FA, SP)	
<i>FA=Fall; SP=Spring; SU=Summer</i>		
Specialization (15 hours)		
Finance	Management	
Required Courses (15 hours)	Required Courses (15 hours)	
FIN/ECON 3313 Money and Banking	MGMT 3513 Human Resource Management	
FIN 3623 Investments	MGMT 3613 Operations Management	
FIN 4333 Financial Management	MGMT 4013 Organizational Behavior	
FIN 4453 Bond Analysis	Upper-Division Management (MGMT) Electives (6 hours)	
Upper Division Finance (FIN) Electives (3 hours)		
General Business Administration	Marketing	
Required Courses Upper Division Electives (15 hours)	Required Courses (15 hours)	
3 credit hours of Accounting (ACCT)	MKTG 3423 Consumer Motivation and Behavior	
3 credit hours of Business (BUS)	MKTG 3433 Retailing	
3 credit hours of Finance (FIN)	MKTG 4433 Advertising	
3 credit hours of Management (MGMT)	MKTG 4443 Marketing Research	
3 credit hours of Marketing (MKTG)	Upper-Division Marketing (MKTG) Electives (3 hours)	
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 40 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	



Degree Requirements: Organizational Leadership (775)–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Business
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (ORGL 3333)	Capstone Experience (ORGL 4553)
Major Requirements (42 hours)		
Required Courses (27 hours)	Optional Courses (3 hours)	Option* (12-15 hours)
ORGL 3113 Fnd Org Ldrship (FA) ORGL 3223 Prof Comm (FA, SP) ORGL 3333 Data Analysis/Interp (FA) ORGL 3443 Found of Fiscal Mgmt (SP) ORGL 4113 Ethics & Organizations (FA) ORGL 4223 Indiv/Organiz/Society (FA) ORGL 4333 Leading and Managing (SP) ORGL 4443 Markets/Stakeholders (SP) ORGL 4553 Capstone (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	ORGL 4993 Internship Org Leadership	*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 Business Criminal Justice Military Science Sociology Technology
Professional and Free Electives Requirements (38 hours)		
Courses can 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).		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	

**Degree Requirements: Organizational Leadership (775)–Bachelor of Science (Cont'd)
Concentration (12–15 hours)**

Business

Students will select courses from the list below for a total of 12-15 hours.

Required Courses (12-15 hours)

ACCT 2013 Principles of Financial Accounting
ACCT 2023 Principles of Cost/Managerial Acct
BUS 2113 Business Communication
BUS 3213 Business Law I
BUS 3223 Business Law II
ECON 2013 Principles of Macroeconomics
ECON 2023 Principles of Microeconomics
FIN 2113 Personal Finance
FIN 3603 Principles of Finance
MGMT 3013 Principles of Management
MGMT 3513 Human Resource Management
MGMT 4013 Organizational Behavior
MKTG 3423 Consumer Motivation and Behavior
MKTG 3433 Retailing
MKTG 3533 Personal Selling

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 Courses (3 hours)

CJ 1013 Introduction to Criminal Justice

Electives (9-12 hours)

Choose 9-12 hours from the following:

CJ 3013 Organized & White Collar Crime
CJ 3103 Theories of Crime
CJ 3133 Ethics in Criminal Justice
CJ 4033 Research Methods & Statistics
CJ 4133 Criminal Justice Administration
CJ 4491-3 Independent Study in Criminal Justice

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 (6 hours)

IT 3013 Technical Communication

IT 4143 Workplace Safety

Electives (6-9 hours)

Choose 6-9 hours from the following:

MIS 4433 Project Management
IT 3000-3 IT Workshop
IT 4001-6 IT Internship
IT 4033 Industrial Management Systems
TECH 4443 Technology Capstone

Sociology

Students will select courses from the list below for a total of 12-15 hours.

Required Courses (3 hours)

SOCI 1113 Introduction to Sociology

Electives (9-12 hours)

Any SOCI courses

Military Science

Contracted Cadets:

(must fulfill the Minor in Military Science as listed below)

Required Courses (18 hours)

At least 18 credit hours from the following list of courses:

MSL 3011 Leadership & Problem Solving Lab
MSL 3013 Leadership & Problem Solving
MSL 3021 Leadership & Ethics Lab
MSL 3023 Leadership & Ethics
MSL 4004 Cadet Leader Course
MSL 4011 Leadership Challenges/Goal Setting Lab
MSL 4013 Leadership Challenges/Goal Setting
MSL 4021 Officership Lab
MSL 4023 Officership
HIST 3133 American Military History

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. (Note: Students in this category will not receive a Minor in Military Science.)

Required Courses (5 hours)

MSL 2022 Leadership & Teamwork
HIST 3133 American Military History

Electives (7-10 hours)

Choose 7-10 hours from the following:

CJ 4023 Terrorism
COMM 2313 Small Group Communication
COMM 3353 Team Leadership Processes
GEOG 3213 World Regional Geography
MGMT 4013 Organizational Behavior
MSL 2021 Leadership & Teamwork Lab
PBRL 2113 Introduction to Public Relations

DEPARTMENT OF COMPUTING AND TECHNOLOGY

FACULTY

CHAIR–Muhammad Javed, Associate Professor

PROFESSORS–M. Estep, A. Johari, C. Zhao

ASSOCIATE PROFESSORS–J. Drissi, F. Moinian

INSTRUCTORS–T. Hickerson, D. Smith, H. Kimberling

MISSION STATEMENT

The mission and vision of the Cameron University Department of Computing and Technology is to:

- Provide quality academic programs based on academic excellence, high ethical standards, and learning outcomes for each of the computing and technology disciplines;
- assist students in developing the skills and confidence to excel as life-long learners;
- prepare computing and technology graduates at both the A.A.S. and B.S. levels for success in a diverse and dynamic environment;
- provide faculty and staff with an atmosphere conducive to professional growth through an annual individualized appraisal program;
- support community efforts involving computing and technology disciplines relevant to the university, school, and department.
- The computing and the technology curricula are flexible, and provide opportunities that are interdisciplinary in nature allowing students to customize individual and professional experience with experiential learning components embedded throughout the curriculum. The curricula are easily adaptable to accommodate the fast-paced technological changes of our society.

PROGRAMS OF STUDY

Degrees & Majors: A.A.S. Information Technology

B.S. Computer Science

B.S. Information Technology

- Computer Information Systems
- Cyber Security/Info Assurance
- Management Information Systems

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Computer Aided Drafting \(CAD\)](#), [Computer Information Systems \(CIS\)](#), [Computer Science \(CS\)](#), [Cyber Security and Information Assurance \(IAS\)](#), [Information Technology \(IT\)](#), [Management Information Systems \(MIS\)](#), [Multimedia Design \(MM\)](#), and [Technology \(TECH\)](#).

GENERAL INFORMATION

The Department of Computing and Technology offers a variety of disciplines at the Associate and Baccalaureate level. These programs are continually updated to ensure students are receiving cutting edge technology knowledge to prepare them for a successful career.

We offer innovative and interdisciplinary programs deeply rooted in discovery, learning and student engagement. We are committed to prepare our students as life-long learners to succeed in a diverse and ever-changing environment.

STUDENT ORGANIZATIONS

Association of Computing and Technology Students (ACTS)–ACTS allows students who have an interest in data processing and information systems to share their ideas and talents with others. They meet with professionals in the information technology field and explore career possibilities.

Association of Computing Machinery (ACM)–ACM is the world's largest computing society that brings together computing educators and students, researchers, and professionals to inspire dialogue, share resources, and address the field's challenges.


Degree Requirements: Information Technology (514)–Associate in Applied Science

School of Graduate and Professional Studies

Department of Computing and Technology

Catalog Year: 2021-2023

General Education Requirements (18 hours)	
Required Courses (12 hours)	Selected Electives (6 hours)
ENGL 1113 English Composition I ENGL 1213 English Composition II HIST 1483 or 1493 U.S. History To or Since 1865 PS 1113 American Federal Government	Behavioral Science or Economics (3 hours): FAMS 1123, PSY 1113, SOCI 1113, AGRC 2013, ECON 2003, ECON 2013, or GEOG 3023 Humanities* (3 hours) *A list of general education courses is available online.
Major Requirements (45–46 hours)	
NOTE: All Courses Listed in Four Areas Below are Required	
Technical Specialty Courses (24 hours)	Option Specialty Courses (9 hours)
IT 1013 Intro to Computer Information Systems (FA, SP) IT 2033 Fund of Systems Analysis & Design (FA) IAS 2233 Intro to Infor Assurance/Security (FA, SP) IT 1063 Intro to Networking (FA, SP) IT 1414/L Programming I & Lab (SP) and IT 2414/L Programming II & Lab (FA) OR CS 1314/L Computer Science I & Lab(FA, SP) and CS 1514 Computer Science II & Lab (FA) IT 2064/L Internetworking Technologies & Lab (FA, SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	Courses selected from: Computer Information Systems (CIS), Management Information Systems (MIS), Cyber Security and Information Assurance (IAS), or Computer Science (CS) (Advisor Approved) *See undergraduate catalog for list.
Technical-Occupational Support Courses (6 hours)	Technical-Occupational Related Courses (6 hours)
BUS 1113 Introduction to Business OR STAT 2013 Introductory Probability & Statistics I MATH 1513 College Algebra	COMM 1113 Principles of Communication AND One additional course selected to complement the student's goals and objectives (Advisor Approved)
General Electives (To Complete 63–64 hours)	
Graduation Requirements	
Complete All Department Requirements Minimum 63-64 Total Credit Hours Minimum 15 Credit Hours in Residence at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	



Degree Requirements: Computer Science (415)–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Computing and Technology
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3–5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1513 or 2215	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8–9 hours)	Humanities (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students..
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	Capstone Experience (CS 4233)
Major Requirements (68 hours)		
Required Courses (42 hours)	Additional Requirements (26 hours)	
CS 1314/L Computer Sci I & Lab (FA,SP) CS 1514/L Computer Sci II & Lab (FA) CS 1523 Discrete Math (FA) CS 2413 Data Structures (SP) CS 2513 Comp Organ & Architect (SP) CS 3013 Network Programming (FA) CS 3183 Database Design & Mgmt (SP) CS 3513 Operating Systems (FA) CS 3713 Algorithm Analysis (FA) CS 4204/L Software Engin & Lab (FA) CS 4233 Capstone Project (SP) IAS 2233 Intro Info Assur/Sec (FA, SP) IT 1063 Intro Networking (FA, SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	Electives (13 hours) Choose from the following: CS 2333 Web Systems Technologies CS 3001-3 Seminar in Computer Sci CS 3813 Parallel Computing CS 3573 Computer Graphics CS 4001-3 Seminar in Computer Sci CS 4223 Prog Lang & Compilers IAS- prefix courses IT 2064/L Internetworking Tech & Lab IT 3603 Human Comp Interface Devel IT 4342 Legal/Ethical Issues for IT Pro	Mathematics (13 hours) (Some Students may also need to take some or all of the following courses as prerequisites: MATH 0013, 0103, 0213, 1513, or 1613.) MATH 1613 Plane Trigonometry MATH 2215 Calc & Analytic Geom I MATH 2235 Calc & Analytic Geom II MATH 2613 Found of Mathematics MATH 3333 College Geometry MATH 4113 Intro Operations Research MATH 4423 Number Theory MATH 4433 Matrix Algebra STAT 2013 Intro Prob & Stats I
General Elective (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science CreditHours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

DEPARTMENT OF EDUCATION

FACULTY

CHAIR (INTERIM)–Stephanie Boss, Associate Professor
PROFESSORS–J. Dennis, C. Glazer, R. Hall, R. Vanderslice
ASSOCIATE PROFESSORS–H. Rice, E. Richardson, M. Smith
ASSISTANT PROFESSORS–E. Finney-Miller, S. Garrett
INSTRUCTOR–J. Huck

MISSION STATEMENT

The Department of Education believes that competent, caring, and committed educators are successful in their careers.

- Educators who are *competent* use pedagogical and content knowledge to support learning for all, provide instruction based on standards and student needs, and use assessment and strategies for active engagement so that all can learn.
- Educators who are *caring* are responsive to individual needs and create learning environments that promote positive social interactions and motivation.
- Educators who are *committed* collaborate with others by using effective communication skills while being reflective decision makers and lifelong learners who are willing to change in order to continuously improve.

We believe that all of these qualities are fostered through standards-based coursework with coordinated field experiences.

PROGRAMS OF STUDY

Degrees & Majors: B.S. Early Childhood Education
 B.S. Elementary Education
 M.Ed. Education

- Literacy
- Special Education
- Teaching and Learning

M.Ed. Reading
 M.S. Educational Leadership

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Child Development \(CD\)](#), [Early Childhood Education \(ECE\)](#), [Education \(EDUC\)](#), [Library Science \(LIBS\)](#), [Reading \(READ\)](#), and [Special Education \(SPED\)](#).

GENERAL INFORMATION

The Department of Education at Cameron University is dedicated to producing COMPETENT, CARING, and COMMITTED educators who can successfully work with diverse students.

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 upon meeting state requirements for certification.

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 University 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. (Please contact department for details).

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. (Please contact department for details).

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. (Please contact department for details).

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 and Social Studies.

Secondary Education majors must demonstrate foreign language proficiency (listening and speaking) at the novice-high level. (Please contact department for details).

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 recommendations with unit dispositions.
- h. Satisfactory completion of entry interview.

*Students must maintain a GPA of 2.5 or better to remain in Teacher Education program. See the Office of Teacher Education for criteria for re-admission.

STUDENT ORGANIZATIONS

Cameron University Council for Exceptional Children (CUCEC)

CUCEC is a student chapter of the Council for Exceptional Children. The dues include two journals. This group meets monthly and students attend one state meeting a year. In addition to the meetings there are activities with children with disabilities. Anyone who is interested is eligible for membership and encouraged to participate.

Kappa Delta Pi—The mission of Kappa Delta Pi is to sustain an honored community of diverse educators by promoting excellence and advancing scholarship, leadership, and service. The vision of Kappa Delta Pi is to help committed educators be leaders in improving education for global citizenship. Individually and collectively, Society members recognize and honor achievement; strive to a high degree of professional fellowship, leadership, and growth in the field of education; and serve their students and educational community.

Students in Early Childhood Education (SECE)—SECE promotes the development of Early Childhood Education students and provides opportunities for those who are going to become educators of young children.

Student Oklahoma Education Association (SOEA)—SOEA promotes the development of professional attitudes among students preparing to enter the teaching profession.



Degree Requirements: Early Childhood Education (355)–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Education
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113 (E); ENGL 1213 (E); COMM 1113(E)	HIST 1483 or 1493(SS)	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513 (M)	PS 1113(SS)	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023 (SS)
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours)(S) Physical Science (4-5 hours)(S) *One course must be a lab science.	Diversity: HIST 2113, 2223, PHIL 1113 Aesthetics: ART 1013, 2613, 2623, THTR 1103, FNAR 1013, MUSC 1013, 1023, 1033, 1413 *One course taken from each category.	SES 2013 and 1 additional hour chosen from: SES 2003, 2023, MSL 1112, or PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
Proficiency Requirements		
Foreign Language Proficiency (3 hour course* or Successful Proficiency Test) Education Four x Twelve Requirement–English, Math, Science, Social Studies)(E, M, S, SS) (48 hours)		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (EDUC 3673)	Capstone Experience (EDUC 4313)
Major Requirements (74 hours)		
Required Core Courses (41 hours)	Professional Education Courses (33 hours)	
ECE 2163 Hlth, Safety, & Nutrition for Young Child (SP, SU) ECE 3154 Mthds & Practicum in Early Childhood Educ (FA) ECE 3303 Home, School, & Community (FA, SU) ECE 4144 Mthds & Pract in Cognitive Development (SP) EDUC 3023 Creative Exper for ECE & Elem School (FA, SP) EDUC 3513 Teaching Primary Reading (FA, SP) EDUC 4423 Language Arts Methods(R)(Odd SP, SU) EDUC 4463 Mathematics Methods(R)(SP) EDUC 4553 Diag & Remed of Reading Diff(R)(FA, SP) LIBS 3423 Children Literature (FA, SP, SU) MATH 1413 or above(M)(FA, SP) MATH 2353 or Elective(M)(FA, SP) MATH 2363 or Elective(M)(FA, SP) (R)Restricted to Teacher Ed students <i>FA=Fall; SP=Spring; SU=Summer</i>	ECE 4653 Assessment of Young Children (R) EDUC 1800 Educ Intro Seminar EDUC 3003 Intro to Teaching EDUC 3612 Classroom Management*(R) EDUC 3673 Media & Tech in Educ EDUC 3733 Developmental Psychology EDUC 3753 Educational Psychology(R) EDUC 4313 Pract in Assess. & Instruct(R) EDUC 4935 Clinical Exper in Teaching I*(R) EDUC 4945 Clinical Exper in Teaching II*(R) SPED 3103 The Exceptional Child *Should be taken in professional semester (R)Restricted to Teacher Ed students	
Additional Requirements (6 hours)		
Social Studies Elective (3 hours) & Science Elective (3 hours) (See advisor for list.)		
General Electives (To Complete 124 hours)		
Graduation Requirements	Teacher Education Admission Requirements	
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online Complete Foreign Language Proficiency	Grade of "C" or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities. Grade of "S" in EDUC 1800. Concurrent enrollment OR grade of "C" or better in EDUC 3003, 3733, & Science. Passing scores on Nelson Denny reading test and OGET. Maintain a GPA of 2.5 at all times. Passing score on EDUC 3003 lesson plan rubric. Three positive recommendations. Satisfactory completion of entry interview.	



Degree Requirements: Early Childhood Education (355)–Special Education–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Education
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113 (E); ENGL 1213 (E); COMM 1113(E)	HIST 1483 or 1493(SS)	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, or 1513 (M)	PS 1113(SS)	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023 (SS)
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours)(S) Physical Science (4-5 hours)(S) *One course must be a lab science.	Diversity: HIST 2113, 2223, PHIL 1113 Aesthetics: ART 1013, 2613, 2623, THTR 1103, FNAR 1013, MUSC 1013, 1023, 1033, 1413 *One course taken from each category.	SES 2013 and 1 additional hour chosen from the following: SES 2003, 2023, MSL 1112, or PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
Proficiency Requirements		
Foreign Language Proficiency (3 hour course* or Successful Proficiency Test) Education Four x Twelve Requirement–English, Math, Science, Social Studies)(E, M, S, SS) (48 hours)		
University Requirements		
UNIV 1001 or 1113–1-3 hours	Computer Literacy–EDUC 3673	Capstone Experience–EDUC 4313
Major Requirements (89 hours)		
Required Core Courses (41 hours)	Professional Ed Courses (33 hours)	Special Education Option (15 hours)
ECE 2163 Hlth/Sfty/Ntr Chld (SP, SU) ECE 3154 Mthds/Practicum ECE (FA) ECE 3303 Home/Sch/Commun (FA, SU) ECE 4144 Mthd/Pract Cognit Devel (SP) EDUC 3023 Crt Exp ECE/El Sch (FA, SP) EDUC 3513 Tching Prim Read (FA, SP) EDUC 4423 Lang Arts Mthd(R)(Odd SP) EDUC 4463 Math Mthd(R)(FA) EDUC 4553 Dia/Rem Rd Diff(R)(FA, SP) LIBS 3423 Children’s Lit (FA, SP, SU) MATH 1413 or above(M)(FA, SP) MATH 2353 or Elective(M)(FA, SP) MATH 2363 or Elective(M)(FA, SP) (R)Restricted to Teacher Ed students <i>FA=Fall; SP=Spring; SU=Summer</i>	ECE 4653 Assessment Young Child (R) EDUC 1800 Educ Intro Seminar EDUC 3003 Intro to Teaching EDUC 3612 Classroom Management*(R) EDUC 3673 Media & Tech in Educ EDUC 3733 Developmental Psychology EDUC 3753 Educational Psychology(R) EDUC 4313 Pract in Assess/Instruct(R) EDUC 4935* Clinical Exp in Tching I(R) EDUC 4945* Clinical Exp in Tching II (R) SPED 3103 The Exceptional Child *Should be taken in professional semester (R)Restricted to Teacher Ed students	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 Char of Exceptional Children SPED 3223 Assessment/Eval in Spec Ed SPED 3243 Behav Intervention & Mgmt SPED 3263 Foundations of Special Ed SPED 4413 Tch Stds w/Mild/Mod Disab
Additional Requirements (6 hours)		
Social Studies Elective (3 hours) & Science Elective (3 hours) (See advisor for list.)		
General Electives (To Complete 124-139 hours)		
Graduation Requirements	Teacher Education Admission Requirements	
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online Complete Foreign Language Proficiency	Grade of “C” or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities. Grade of “S” in EDUC 1800. Concurrent enrollment OR grade of “C” or better in EDUC 3003, 3733, & Science. Passing scores on Nelson Denny reading test and OGET. Maintain a GPA of 2.5 at all times. Passing score on EDUC 3003 lesson plan rubric. Three positive recommendations. Satisfactory completion of entry interview.	



Degree Requirements: Elementary Education (350)–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Education
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113 (E); ENGL 1213 (E); COMM 1113 (E)	HIST 1483 or 1493(SS)	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513 (M)	PS 1113(SS)	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023 (SS)
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours)(S) Physical Science (4-5 hours)(S) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2013 and 1 additional hour chosen from the following: SES 2003, 2023, MSL 1112, or PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
Proficiency Requirements		
Foreign Language Proficiency (3 hour course* or Successful Proficiency Test) Education Four x Twelve Requirement–English, Math, Science, Social Studies)(E, M, S, SS) (48 hours)		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (EDUC 3673)	Capstone Experience (EDUC 4313)
Major Requirements (72 hours)		
Required Core Courses (36 hours)	Professional Education Courses (36 hours)	
EDUC 3023 Creative Exper for ECE/Elem School (FA, SP) EDUC 3513 Teaching Primary Reading (FA, SP) EDUC 3533 Teaching Interm/Middle School Reading (SP) EDUC 4423 Language Arts Methods(R) (Odd SP) EDUC 4443 Social Studies Methods(R) (FA) EDUC 4463 Mathematics Methods(R) (FA) EDUC 4483 Science Methods(R) (SU) EDUC 4553 Diag & Remed of Reading Diffic(R) (FA, SP) LIBS 3423 Children’s Literature (FA, SP) MATH 1413 or above(M) (FA, SP) MATH 2353 or Elective(M) (FA, SP) MATH 2363 or Elective(M) (SP) (R)Restricted to Teacher Ed students <i>FA=Fall; SP=Spring; SU=Summer</i>	EDUC 1800 Education Intro Seminar EDUC 3003 Intro to Teaching EDUC 3013 Cultural Foundations of Education EDUC 3612 Classroom Management*(R) EDUC 3673 Media & Tech in Educ EDUC 3733 Developmental Psychology EDUC 3753 Educational Psychology(R) EDUC 4313 Pract in Assess. & Instruct(R) EDUC 4653 Classroom Assessment (R) EDUC 4935 Clinical Exper in Teaching I*(R) EDUC 4945 Clinical Exper in Teaching II*(R) SPED 3103 The Exceptional Child *Should be taken in professional semester (R)Restricted to Teacher Ed students	
Additional Requirements (6 hours)		
Social Studies Elective (3 hours) & Science Elective (3 hours) (See advisor for list.)		
General Electives (To Complete 124 hours)		
Graduation Requirements	Teacher Education Admission Requirements	
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online Complete Foreign Language Proficiency	Grade of “C” or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities. Grade of “S” in EDUC 1800. Concurrent enrollment OR grade of “C” or better in EDUC 3003, 3733, & Science. Passing scores on Nelson Denny reading test and OGET. Maintain a GPA of 2.5 at all times. Passing score on EDUC 3003 lesson plan rubric. Three positive recommendations. Satisfactory completion of entry interview.	



Degree Requirements: Elementary Education (350)-Special Education-Bachelor of Science
 School of Graduate and Professional Studies
 Department of Education
 Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113 (E); ENGL 1213 (E); COMM 1113 (E)	HIST 1483 or 1493(SS)	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, or 1513 (M)	PS 1113(SS)	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023 (SS)
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours)(S) Physical Science (4-5 hours)(S) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2013 and 1 additional hour chosen from the following: SES 2003, 2023, MSL 1112, or PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
Proficiency Requirements		
Foreign Language Proficiency (3 hour course* or Successful Proficiency Test) Education Four x Twelve Requirement-English, Math, Science, Social Studies)(E, M, S, SS) (48 hours)		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (EDUC 3673)	Capstone Experience (EDUC 4313)
Major Requirements (87 hours)		
Required Core Courses (36 hours)	Professional Ed Courses (36 hours)	Special Education Option (15 hours)
EDUC 3023 Crt Exp ECE/El Sch (FA, SP) EDUC 3513 Tching Prim Rdng (FA, SP) EDUC 3533 Tch Inter/Mid Sch Rd (SP) EDUC 4423 Lang Arts Mtds(R) (Odd SP) EDUC 4443 Social Studies Mtds(R) (FA) EDUC 4463 Mathematics Mtds(R) (FA) EDUC 4483 Science Methods(R) (SU) EDUC 4553 Di/Remed Rd Df(R) (FA, SP) LIBS 3423 Children's Literature (FA, SP) MATH 1413 or above(M) (FA, SP) MATH 2353 or Elective(M) (FA, SP) MATH 2363 or Elective(M) (SP) (R)Restricted to Teacher Ed students FA=Fall; SP=Spring; SU=Summer	EDUC 1800 Educ Intro Seminar EDUC 3003 Intro to Teaching EDUC 3013 Cultural Found of Educ EDUC 3612 Classroom Mgmt*(R) EDUC 3673 Media & Tech in Educ EDUC 3733 Developmental Psych EDUC 3753 Educational Psych(R) EDUC 4313 Pract Assess/Instruct(R) EDUC 4653 Classroom Assessment (R) EDUC 4935 Clinical Exp in Tching I*(R) EDUC 4945 Clinical Exp in Tching II*(R) SPED 3103 The Exceptional Child *Should be taken in professional semester (R)Restricted to Teacher Ed students	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 Char of Exceptional Child SPED 3223 Assessment/Eval in Spec Ed SPED 3243 Behav Intervention & Mgmt SPED 3263 Foundations of Special Ed SPED 4413 Tch Stds w/Mild/Mod Disab
Additional Requirements (6 hours)		
Social Studies Elective (3 hours) & Science Elective (3 hours) (See advisor for list.)		
General Electives (To Complete 124-139 hours)		
Graduation Requirements	Teacher Education Admission Requirements	
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online Complete Foreign Language Proficiency	Grade of "C" or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities. Grade of "S" in EDUC 1800. Concurrent enrollment OR grade of "C" or better in EDUC 3003, 3733, & Science. Passing scores on Nelson Denny reading test and OGET. Maintain a GPA of 2.5 at all times. Passing score on EDUC 3003 lesson plan rubric. Three positive recommendations. Satisfactory completion of entry interview.	

DEPARTMENT OF PSYCHOLOGY**FACULTY**

CHAIR–Shaun Calix, Associate Professor
PROFESSORS–M. Dzindolet, J. Geiger, J. Sailor
ASSOCIATE PROFESSORS–J. Seger
ASSISTANT PROFESSORS–S. Stern, W. Stern
INSTRUCTORS–P. James, C. Nunnally

MISSION STATEMENT

The mission of the Department of Psychology at Cameron University is to prepare the diverse student body for entry level and advanced positions in the field of psychology, family studies, research, and service; to provide education that is focused on the principles of psychology and counseling that apply to work, family and responsible citizenship; and to prepare students for further education in the field, licensure, or related careers in order to support the cultural life and economic development of the region.

PROGRAMS OF STUDY

Degrees & Majors: B.S. Family and Child Studies
 B.S. Psychology
 M.S. Behavioral Science

- Counseling
- General Psychology
- Marriage and Family

Embedded Certificate: Early Childhood Administration

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Family and Child Studies \(FAMS\)](#), and [Psychology \(PSY\)](#).

GENERAL INFORMATION

Psychology is the scientific study of human and animal behavior. Psychologists are interested in such diverse areas as drug addiction, obesity, sexual behavior, attitudes toward smoking, learning, individual growth, and adjustment, motivation, mental retardation, aggression, the dynamics of group behavior, physical performance, dreaming, memory, psychological disorders, and counseling. Psychology is a diverse field with both scientific and professional aspects. As a science, psychology focuses on research: psychologist collect, quantify, analyze and interpret data describing human and animal behavior. As a profession, psychology focuses on the application of knowledge, skills and techniques to solve individual and social problems. Possible careers with a bachelor degree in Psychology include case manager, social worker, career counselor, rehabilitation specialist, and psychiatric technician.

The Psychology Department at Cameron University is dedicated to preparing students for the professional world and for graduate school. We have high standards, and we work with our students to reach those standards. Students have the opportunity to work with faculty members to do research and possibly publish or present the research. Research interests of the faculty include general experimental psychology, social psychology, developmental psychology, cognitive psychology, counseling psychology, and neuropsychology.

STUDENT ORGANIZATION

Psi Chi (Psychology)–Psi Chi is the national psychology honor society established to promote the field of psychology and to recognize students for their scholastic excellence in the field.


Degree Requirements: Family and Child Studies (356)-Bachelor of Science

School of Graduate and Professional Studies

Department of Psychology

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science-3 hours
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113
Mathematics-3-5 hours	Political Science-3 hours	Economics-3 hours
STAT 1513 (recommended), MATH 1413, 1463, 1513, 1613, 2215, 2713	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, any from the following: PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	Capstone Experience (FAMS 4702)
Major Requirements (56 hours)		
Required Courses (41 hours)	Option (15 hours)	
ECE 2163 Health, Safety, Nutrition for Young Child (SP) CD 1113 Child Growth and Development (SP) CD 1123 Intro to Family and Child Studies (FA) CD 3223 Child Guidance (FA) CD 3233 Emergent Literacy for Young Children (SP) ECE 3303 Home School & Community (FA) FAMS 1123 Family Relations (FA, SP) FAMS 3153 Human Sexuality (FA, SP) FAMS 3143 Parenthood Education (SP) FAMS 4143 Crisis Management and Resources (FA) FAMS 4333 Current Issues in Family Diversity (Odd SP) FAMS 4702 Career Research & Prof Develop (FA, SP, SU) PSY 3363 Psych of Middle Childhood (FA, SP) SPED 2103 Inclusive Environ: Educ Exceptional Child (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	<u><i>Child Development Option (15 hours)</i></u> CD 1213 Curriculum and Environments CD 2223 Found and Current Issues in Early Childhood CD 4223 Admin and Supervision in Early Childhood CD 4333 Developmental Assessment and Observation ECE 3154 Mthds and Practicum in Early Childhood Ed ECE 4144 Mthds and Practicum in Cognitive Development EDUC 3023 Creative Experiences for ECE/EL Schools EDUC 3673 Media and Technology in Education LIBS 3423 Children's Literature <u><i>Family Studies Option (15 hours)</i></u> FAMS 4123 Marriage FAMS 4163 Healthy Aging FAMS 4173 Functional Family Systems FAMS 4903 Seminar in Family Science FAMS 4133 Military Families FAMS 4803 Family Life Education PSY 3373 Psych of Adolescence and Emerging Adulthood	
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	


Embedded Certificate Requirements: Early Childhood Administration (256)

(Embedded in Bachelor of Science in Family and Child Studies)

School of Graduate and Professional Studies

Department of Psychology

Catalog Year: 2021-2023

Embedded Certificate Requirements (24 hours)
Family and Child Studies Major Courses or Child Development Option Courses (15 hours)

CD 1113 Child Growth and Development
 CD 1123 Intro to Family and Child Studies
 CD 1213 Curriculum and Environments
 CD 2223 Found and Current Issues in Early Childhood
 CD 3223 Child Guidance
 CD 3233 Emergent Literacy for Young Children
 CD 4333 Developmental Assessment and Observation
 ECE 2163 Health, Safety, Nutrition for Young Child
 ECE 3154 Methods and Practicum in Early Childhood Education
 ECE 3303 Home School and Community
 ECE 4144 Methods and Practicum in Cognitive Development
 EDUC 3023 Creative Experiences for ECE/EL Schools

Administration/Management (9 hours)

Required (3 hours)

CD 4223 Admin and Supervision in Early Childhood

Choose from two of the following:

ACCT 2013 Principles of Financial Accounting

BUS 1113 Intro to Business

BUS 2113 Business Communication

ECON 2013 Principles of Macroeconomics

ECON 2023 Principles of Microeconomics


Degree Requirements: Psychology (165)-Bachelor of Science

School of Graduate and Professional Studies

Department of Psychology

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science-3 hours
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, any from the following: PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (PSY 3543)	Capstone Experience (PSY 4433)
Major Requirements (42 hours)		
Required Courses (27 hours)	Major Electives (15 hours)	
PSY 1113 General Psychology (FA, SP) PSY 2113 History of Psychology (FA, SP) PSY 3353 Lifespan Human Growth & Development (FA, SP) PSY 3413 Psychology of Learning (FA, SP) PSY 3423 Applied Quantitative Methods (FA, SP) PSY 4363 Abnormal Psychology (FA, SP) PSY 4393 Personality (FA, SP) PSY 4423 Experimental Psychology (FA, SP) PSY 4433 Psychological Research* (FA, SP) *A grade of C or above is required in PSY 3423 and PSY 4423 to enroll in PSY 4433 <i>FA=Fall; SP=Spring; SU=Summer</i>	Select from the following list with a minimum of 9 hours having a PSY prefix of 3000 or above: FAMS 3153 Human Sexuality PSY 2223 Applied Psychology PSY 2373 Intro to Health Psychology PSY 3313 Cognitive Psychology PSY 3333 Counseling and Clinical Psychology PSY 3363 Psy of Early & Middle Childhood OR PSY 3373 Psy of Adolescence & Emerging Adulthood PSY 3383 Social Psychology PSY 4313 Psychological Testing PSY 4323 Sensation & Perception PSY 4443 Biopsychology	
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Elective (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

DEPARTMENT OF SOCIAL SCIENCES

FACULTY

CHAIR–Lance Janda, Professor

PROFESSORS–R. Bausch, D. Catterall, S. Janda, J. Metzger, E. Montalvo

ASSOCIATE PROFESSOR–S. Lee

ASSISTANT PROFESSOR–D. Searcy

SENIOR INSTRUCTORS–T. Childs, R. Lowe

INSTRUCTORS–D. Smith, C. Leija, S. Hooper

MISSION STATEMENT

The mission of Cameron University's Department of Social Sciences is to provide high quality instruction to students at the undergraduate level using a multi-disciplinary approach that emphasizes active learning, problem solving, and critical thinking.

PROGRAMS OF STUDY

Degrees & Majors: A. S. Criminal Justice
 B.A. History
 B.A. Political Science
 B.A. Social Studies Education
 B.S. Criminal Justice
 B.S. Sociology

- General Sociology
- Human Services

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Criminal Justice \(CJ\)](#), [Geography \(GEOG\)](#), [History \(HIST\)](#), [Philosophy \(PHIL\)](#), [Political Science \(PS\)](#), and [Sociology \(SOCL\)](#).

GENERAL INFORMATION

The department is dedicated to excellence in teaching, scholarship, and service. We offer degrees and minors in Criminal Justice, Geography, History, the Humanities, Political Science, Pre-Law, Social Studies Education and Sociology, and a broad array of required and elective general education courses.

Our academic programs empower students to explore their interests, express their ideas, and experience the pride of uncovering new knowledge.

The department strives to develop students into scholars, mentors, and responsible citizens of their community, state and country who make a positive difference in society through their involvement in their particular field in the social sciences.

STUDENT ORGANIZATIONS

Alpha Phi Sigma–Alpha Phi Sigma recognizes academic excellence among students majoring in Criminal Justice. The goals of Alpha Phi Sigma are to honor and promote academic achievement, honor and promote academic achievement, community service, education leadership, and unity.

Criminal Justice Association–The Criminal Justice Association is dedicated to the furthering of professionalism and the fostering of assistance and understanding between the community and students/scholars in Criminal Justice.

History Club–The History Club is for any student who has an interest in history. The club's primary purpose is to promote intellectual improvement among students. The secondary purpose is to provide students with the opportunity to get to know other students and professors who are interested in the field through social gatherings and activities.

Phi Alpha Theta–Phi Alpha Theta, an international Historical Honor Society, promotes the study of history through the exchange of learning and ideas among historians, excellent teaching, and the encouragement and publication of research.

Pi Sigma Alpha–Pi Sigma Alpha is the national honor society for political science. It promotes curricular and extra-curricular activities and stimulates scholarship and intelligent interest in political science.



Degree Requirements: Criminal Justice (551)–Associate in Science
 School of Graduate and Professional Studies
 Department of Social Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science–3 hours
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483* or 1493*	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) <i>*One course must be a lab science.</i>	Diversity (3 hours) Aesthetics (3 hours) <i>*One course taken from each category.</i>	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 <i>*Requirement waived for some students.</i>
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	
Major Requirements (24 hours)		
Required Courses (21 hours)	Guided Electives (3 hours)	
CJ 1013 Intro to Criminal Justice (FA, SP) CJ 2013 Intro to Law Enforcement (FA, SP) CJ 2073 Intro to Corrections (FA, SP) CJ 2113 Criminal Law (FA, SP) CJ 2233 American Courts (FA, SP) SOCI 1113 Introduction to Sociology (FA, SP, SU) IT 1013 or MIS 2113 Introduction to Computer Information Systems or Fundamental MIS Tools and Skills (FA, SP, SU) <i>FA=Fall; SP=Spring; SU=Summer</i>	Any additional CJ-prefix course	
General Electives (To Complete 69 hours)		
Graduation Requirements		
Department Requirements Minimum 69 Total Credit Hours Minimum 15 Credit Hours in Residence at Cameron Retention GPA 2.0 Cameron GPA 2.0 Complete Graduation Application Online		



Degree Requirements: History (130)-Bachelor of Arts
 School of Graduate and Professional Studies
 Department of Social Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483* or 1493* *Both must be taken; one for Gen Ed and one for the major.	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (HIST 2133)	Capstone Experience (HIST 4793)
Major Requirements (42 hours)		
Required Courses (21 hours)	U.S. History Upper Division Electives (12 hours)	
HIST 1113 Early World History (FA) HIST 1123 Modern World History (SP) HIST 1483 or 1493 U.S. Hist to OR since 1865*(FA, SP) HIST 2113 Western Civilization I (FA) HIST 2133 Intro to Historical Research & Writing**(FA) HIST 2223 Western Civilization II (SP) HIST 4793 Senior Seminar in History**(Even SP) *Both must be taken: one for Gen Ed and one for the major. **A grade of C" or better is required for graduation. FA=Fall; SP=Spring; SU=Summer	Please see next page for elective choices. U.S. History to 1865 (3 hours) U.S. History since 1865 (3 hours) U.S. History Surveys/Oklahoma History (3 hours) Internship or Additional U.S. History (3 hours)	
	Non U.S. History Upper Division Electives (9 hours)	
	Please see next page for elective choices. Pre-Modern Non-U.S. History (3 hours) Modern Non-U.S. History (3 hours) Additional Non-U.S. History (3 hours)	
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

Degree Requirements: History (130)-Bachelor of Arts (Cont'd)**U.S. History/Non U.S. History Upper Division Electives (21 hours)****U.S. History Upper Division Electives (12 hours)*****U.S. History to 1865 (3 hours)***

HIST 4243 American Colonial History
 HIST 4253 The Amer Revolution & Early National Period
 HIST 4273 The Age of Jackson/Amer Expansion, 1815-48
 HIST 4283 The Civil War & Reconstruction 1848-77*

U.S. History since 1865 (3 hours)

HIST 4283 The Civil War & Reconstruction 1848-77*
 HIST 4293 The Gilded Age & Progressive Era 1877-1920
 HIST 4313 War & Depression 1917-45
 HIST 4323 Cold War America, 1945-1991

U.S. History Surveys/Oklahoma History (3 hours)

HIST 3043 Oklahoma History
 HIST 3133 American Military History
 HIST 4123 American Women and Politics

Internship or Additional U.S. History (3 hours)

Or one additional course from U.S. History to 1865 or U.S. History since 1865 or U.S. History/Surveys/Oklahoma History categories.

HIST 3391-3 Independent Study
 HIST 3483 Public History Internship
 HIST 4961-3 Selected Topics in United States History

(*NOTE: HIST 4283 may only be counted once.)

Non U.S. History Upper Division Electives (9 hours)***Pre-Modern Non-U.S. History (3 hours)***

HIST 3033 Race & Atlantic, 1400-1850
 HIST 3123 The Crusades, 1095-1798
 HIST 4353 Frontier Europe, 1300-1800
 HIST 4413 Religion/Magic in Early Mod Europe, 1400-1650
 HIST 4473 Heroes & Villains of French Revol, 1781-1815
 HIST 4971-3 Selected Topics in European & World History

Modern Non-U.S. History (3 hours)

HIST 3243 Britain Since 1689
 HIST 4373 Europe 1789-1914
 HIST 4443 20th Century European History
 HIST 4971-3 Selected Topics in European & World History

Additional Non-U.S. History (3 hours)

Or one additional course from Pre-Modern Non-U.S. History or Modern Non-U.S. History categories.

HIST 3391-3 Independent Study
 HIST 4971-3 Selected Topics in European & World History



Degree Requirements: Political Science (162)-Bachelor of Arts
 School of Graduate and Professional Studies
 Department of Social Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (PS 2113)	Capstone Experience (PS 4683)
Major Requirements (39 hours)		
Required Courses (12 hours)		
PS 2113 Concepts of Political Science (Odd FA) PS 2793 Research Methods in Political Science (Even FA) PS 3603 Introduction to Political Thought (Even SP) PS 4683 Academic Research in Political Science (Odd SP) <i>FA=Fall; SP=Spring; SU=Summer</i>		
Electives (27 hours)		
At least three hours must be taken in each of the following three areas; the remaining eighteen hours may be selected from any or all of the areas and may include: PS 3721-3 Internship in Political Science or PS 3633 American Political Thought.		
American Institution (Min. 3 Hrs) PS 2001-3 Special Problems in Poli Sci* PS 2023 State & Local Government PS 3483 The American Presidency PS 3513 The Legislative Process PS 3813 Const Law/Govt: Amer Exper PS 4253 The Judicial Process PS 4491-3 Selected Topics in Poli Sci* PS 4591-3 Independent Study Poli Sci*	Global Politics (Min. 3 hrs) PS 2001-3 Special Problems in Poli Sci* PS 2013 Intro to International Studies PS 3213 Global Political Economy PS 3333 Comparative Government PS 4023 ST: World Regional Politics PS 4053 U.S. Foreign Policy PS 4491-3 Selected Topics in Poli Sci* PS 4591-3 Independent Study Poli Sci*	Political Behavior (Min. 3 hrs) PS 2001-3 Special Problems in Poli Sci* PS 3013 Political Parties/Interest Grps PS 3023 Public Opinion PS 3043 The Media in American Politics PS 3113 Public Admin and Policy PS 3633 American Political Thought PS 4491-3 Selected Topics in Poli Sci* PS 4591-3 Independent Study Poli Sci*
<i>*PS 2001-3, PS 4491-3, PS 4591-3 may each be taken for a maximum of 6 hours.</i>		
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 80 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	



Degree Requirements: Social Studies Education (135)–Bachelor of Arts
 School of Graduate and Professional Studies
 Department of Social Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	ECON 2013
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	HIST 2113 (3 hours) Aesthetics (3 hours) *See Gen Ed requirements for list.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (EDUC 3673)	Capstone Experience (HIST 4773)
Major Requirements (78 hours)		
Major Core Requirements (45 hours)	Required Education Courses (33 hours)	
History (30 hours) HIST 1113 Early World History (FA) HIST 1123 Modern World History (SP) HIST 1493 U.S. History since 1865 (FA, SP) HIST 2133 An Intro to Historical Research & Writing (FA) HIST 2223 Western Civilization II (SP) HIST 3043 Oklahoma History (SP) HIST 4773 Methods of Teaching Social Studies (FA) U.S. History Electives (6 hours at 3000 + level) (FA, SP) Non-U.S. History Electives (3 hours at 3000 + level) (FA, SP) Political Science (3 hours) Political Science Electives (3 hours at 2000 + level) (FA, SP) Economics (3 hours) ECON 2023 Prin of Microecon (FA, SP) OR GEOG 3023 Economic Geography (FA, SP) Geography (6 hours) GEOG 2243 Human Geography (FA) GEOG 3213 World Regional Geography (SP) Social Studies (3 hours) SOCI 1113 Introductory Sociology (FA, SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	EDUC 1800 Educ Intro Seminar EDUC 3003 Intro to Teaching EDUC 3612 Classroom Management* EDUC 3673 Media & Tech in Educ EDUC 3733 Developmental Psychology EDUC 3753 Educational Psychology(R) EDUC 4313 Practicum in Assess. & Instruction(R) EDUC 4653 Classroom Assessment(R) EDUC 4935 Clinical Exper in Teaching I*(R) EDUC 4945 Clinical Exper in Teaching II*(R) SPED 3103 The Exceptional Child *Should be taken in professional semester (R)Restricted to Teacher Ed students	
<i>NOTE: A grade of "C" or better is required in all Required Major Core & Education Courses.</i>		
General Electives (To Complete 124 hours)		
Graduation Requirements	Teacher Ed Admission Requirements	
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 80 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online Foreign Language elective or Successful Proficiency Test	Grade of "C" or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities. Grade of "S" in EDUC 1800. Concurrent enrollment OR grade of "C" or better in EDUC 3003, 3733, & Science. Passing scores on Nelson Denny reading test and OGET. Maintain a GPA of 2.5 at all times. Passing score on EDUC 3003 lesson plan rubric. Three positive recommendations. Satisfactory completion of entry interview.	



Degree Requirements: Criminal Justice (580)–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Social Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	Capstone Experience (CJ 4913)
Major Requirements (42 hours)		
Required Core Courses (33 hours)		Guided Electives (9 hours)
CJ 1013 Intro to Criminal Justice (FA, SP) CJ 2013 Intro to Law Enforcement (FA, SP) CJ 2073 Intro to Corrections (FA, SP) CJ 2113 Criminal Law (FA, SP) CJ 2233 American Courts (FA, SP) CJ 3003 Juvenile Justice System (FA, SP) CJ 3103 Theories of Crime (FA, SP) CJ 3133 Ethics in Criminal Justice (FA) CJ 4033 Research Methods & Statistics (FA) CJ 4133 Criminal Justice Administration (FA, SP) CJ 4913 Criminal Justice Capstone (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>		CJ 3013 Organized and White Collar Crime CJ 3023 Criminal Justice & Film CJ 3033 Cybercrime CJ 3063 Criminal Evidence and Procedures CJ 4023 Homeland Security CJ 4143 Sexual Abuse & the CJ System CJ 4153 Death Penalty CJ 4491-3 Selected Topics in Criminal Justice
Minor Requirements (18 hours)		
An AAS, AA, or AS in Criminal Justice or an equivalent Associate degree may be used to satisfy the requirements for a minor. Otherwise, courses used to satisfy requirements may not be used to satisfy minor requirements. A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	



Degree Requirements: Sociology (180)–Bachelor of Science
 School of Graduate and Professional Studies
 Department of Social Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013)	Capstone Experience (SOCI 4903)
Major Requirements (39 hours)		
Required Courses (18 hours)	Option (21 hours)	
SOCI 1113 Intro Sociology (FA, SP) SOCI 3113 Social Statistics (FA) SOCI 3123 Sociological Theory (Odd SP) SOCI 3133 Sociological Research Methods (Odd SP) SOCI 4213 Social Stratification (Even SP) SOCI 4903 Sociology Capstone (Even SP) <i>(Sociology majors are required to earn a grade of "C" or higher in SOCI 4903 and a minimum GPA of 2.0 in all required major courses.)</i> FA=Fall; SP=Spring; SU=Summer	General Sociology Option (21 hours) <i>Upper Division SOCI courses (15 hours)</i> <i>Upper or Lower Division SOCI courses (6 hours)*</i> *No more than 6 hours may be lower division. Human Services Option (21 hours) <i>Required Courses (15 hours)</i> SOCI 2513 Introduction to Social Work SOCI 3013 Race and Ethnic Relations SOCI 3373 Sociology Of The Community SOCI, 3403 Sociology Of The Family SOCI 3513 Introduction to Social Welfare & Human Services <i>Electives (6 hours)</i> Choose from: SOCI 2023 Social Problems SOCI 3003 Deviant Behavior SOCI 3343 Political Sociology SOCI 3413 Gerontology SOCI 3991-3 Internship in Sociology SOCI 4013 Juvenile Delinquency	
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	

DEPARTMENT OF SPORTS AND EXERCISE SCIENCE**FACULTY**

CHAIR–Stephanie Boss, Associate Professor
ASSISTANT PROFESSORS–K. Mahlock, M. Thacker
INSTRUCTORS–T. Chambers, B. Hughes, A. VanGorder

MISSION STATEMENT

The mission of the Department of Sports & Exercise Science at Cameron University is to prepare students for successful careers in corporate, medical, and/or community based settings that embrace lifetime health and wellness of its constituents.

PROGRAM OF STUDY

Degrees & Majors: B.S. Sports and Exercise Science

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Physical Education Activity \(PE\)](#), and [Sports and Exercise Science \(SES\)](#).

GENERAL INFORMATION

Our undergraduate program offers a mixture of academic coursework and fieldwork opportunities that encompass the exercise science discipline. Emphasis of preparation includes placement of the student 'early on' within the real world setting. To achieve this outcome, our commitment relies in the ability to collaborate with community based businesses/school sites and surrounding institutions with the intent to build upon the student's unique skill set throughout the degree program.

Students who are interested in pursuing a **BS in Sports & Exercise Science** acquire a strong foundation in science based curriculum that integrates research, education, and practical application within a variety of contexts to enhance personal fitness, health, and sport performance.

CAREERS AND FIELDS OF STUDY

Common fields of study include: Teaching, Coach/Scout, Fitness Trainer/Instructor, Health Educator, Recreation, or Accredited Certifications.

For students who are interested in becoming a physical therapist assistant, the Sports & Exercise Science curriculum includes all prerequisite courses required by Physical Therapy Assistant (PTA) Programs in the state of Oklahoma.

Earning a Bachelor's Degree in Sports & Exercise Science provides a solid foundation for students who are interested in pursuing professional degrees in the following health-related disciplines: Registered Nurse, Dietitian, Chiropractor, Athletic Trainer, Exercise Physiologist, Occupational Therapist, Physical Therapist, Physician Assistant, Prosthetics and Orthotics Specialist, Recreational Therapist, or Sports Psychologist.

STUDENT ORGANIZATION

Sports and Exercise Science Club–Provides service projects for the community, educates people about ideals and benefits of physical education, provides academic and social activities for its members and promotes unity among those members.


Degree Requirements: Sports and Exercise Science (370)-Bachelor of Science

School of Graduate and Professional Studies

Department of Sports and Exercise Science

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	Capstone Experience (SES 4053)
Major Requirements (45 hours)		
Required Core Courses* (45 hours*)		
SES 2023 Nutrition (FA, SP)	SES 3053 Facility Management (FA)	
SES 2033 First Aid (FA, SP)	SES 4003 Motor Learning (FA)	
SES 2043 Intro to Sports & Exercise Science (FA, SP)	SES 4013 Physiology of Exercise Lab (FA)	
SES 3003 Sports Nutrition (SP)	SES 4023 Exercise Prescription (SP)	
SES 3013 Applied Anatomy & Kinesiology (FA, SP)	SES 4033 Legal Aspects (FA)	
SES 3023 Care & Prevention of Athletic Injuries (FA, SP)	SES 4043 Research Methods (SP)	
SES 3033 Physiology of Exercise (FA, SP)	SES 4053 Practicum (FA, SP)	
SES 3043 Biomechanics (SP)		
<i>FA=Fall; SP=Spring; SU=Summer</i>		
Guided Electives* (15 hours)		
<i>Select from the following list:</i>		
SES 2003 Health	SES 3113 Event Planning & Fundraising	
SES 2013 Wellness	SES 3123 Sport Psychology	
SES 3063 Health & Behavior Change	SES 3131 Special Studies	
SES 3073 Recreation for Special Populations	SES 3132 Special Studies	
SES 3083 Community Recreation Programs	SES 3133 Special Studies	
SES 3093 General Medical Conditions	SES 3143 Personal Training	
SES 3103 Leadership & Coaching	SES 3153 Strength Training	
*A grade of C or better is required in all Major Core and Guided Elective Courses.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

SCHOOL OF ARTS AND SCIENCES

ADMINISTRATION

Von Underwood–Dean

DEPARTMENT OF AGRICULTURE, BIOLOGY, AND HEALTH SCIENCES

Michael Husak–Chair

DEPARTMENT OF ART, MUSIC, AND THEATRE ARTS

Scott Richard Klein–Chair

DEPARTMENT OF CHEMISTRY, PHYSICS, AND ENGINEERING

Kyle Moore–Chair

DEPARTMENT OF COMMUNICATION, ENGLISH, AND FOREIGN LANGUAGES

Christopher Keller–Chair

DEPARTMENT OF MATHEMATICAL SCIENCES

Vacant–Chair

DEPARTMENT OF MILITARY SCIENCE

LTC Peter Salfetty–Chair

MISSION STATEMENT

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.

student organizations. We feel strongly that important aspects of a university education take place outside the classroom. We urge all students to be full participants in campus life and to take advantage of the activities and organizations available on our campus.

Please contact any of the departments in the School of Arts and Sciences for additional information regarding our degree programs. We wish you every success and are here to guide and to help as you pursue your education.

GENERAL INFORMATION

The School of Arts and Sciences offers degree programs in Art, Music and Theatre Arts; Agriculture, Biology and Health Sciences; Communication, English and Foreign Languages; Chemistry, Physics, and Engineering; and Mathematics and a minor in Military Science.

Our faculty members believe strongly in creating student-centered learning environments and engaging students in exploration and discovery. We engage students in undergraduate research, internships, and special programs which extend beyond the traditional classroom.

We take pride in being innovative and creative teachers and scholars in guiding and mentoring students to the highest possible standards of academic achievement. We prepare students for a lifetime of learning and contributing in professional and cultural life. We have within our school several state-of-the-art facilities with particularly well equipped labs in the Sciences, including our Gross Anatomy lab, and the new broadcast and newsroom facilities in the Academic Commons.

Each year we present a broad array of university events such as theatre productions, art exhibits concerts, public lectures, readings, film showings and other events to which we invite the campus community and the public. Faculty in the school are also advisors for a wide range of

DEPARTMENT OF AGRICULTURE, BIOLOGY, AND HEALTH SCIENCES**FACULTY****CHAIR**–Michael Husak, Professor**PROFESSOR**–T. Conley**ASSOCIATE PROFESSORS**–D. Lee, M. Van Sant**ASSISTANT PROFESSORS**–A. Fornah, P. Hamilton, A. Miller, C. Parks**INSTRUCTORS**–C. Baxter, J. Bricker, D. Ousley, A. Reid, K. Smith, S. Walls, D. Winters**MISSION STATEMENT**

The mission of Cameron University's Department of Agriculture, Biology and Health Sciences is to provide high quality instruction to students at the undergraduate level using a multi-disciplinary approach that emphasizes active learning, problem solving, and critical thinking.

The department is committed to research and scholarly activities that advance, integrate, broaden, and communicate knowledge to our students and colleagues in the natural sciences. Our vision is to achieve excellence in education through creative use of traditional and innovative instructional methods, technology, and research. The department strives to develop students into scholars, mentors, and responsible citizens of their community, state and country who make a positive difference in society by enhancing agricultural productivity, environmental sustainability, and proper management of natural resources. Our faculty participates in outreach to the state and nation through services to the university community, to the public, to governmental and industrial sectors, and to professional societies.

PROGRAMS OF STUDY**Degrees & Majors:** A.A.S Radiologic Technology

A.A.S. Respiratory Care

A.S. Allied Health Sciences

B.S. Agriculture

- Agribusiness Management
- Agronomy
- Animal Science
- General Agriculture

B.S. Biology

- Cellular and Molecular Biology
- Organismal Biology
- Medical Laboratory Science

GENERAL INFORMATION

The department 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.

COURSE DESCRIPTIONS

Course descriptions for the following prefixes offered in the department are located at the end of the catalog: [Agriculture \(AGRC\)](#), [Agronomy \(AGRN\)](#), [Allied Health Sciences \(AHS\)](#), [Animal Science \(ANIM\)](#), [Biology \(BIOL\)](#), [Earth Science \(ESCI\)](#), [Environmental Science \(ENSC\)](#), [Medical Laboratory Science \(MLS\)](#), [Radiologic Technology \(RAD\)](#), and [Respiratory Care \(RESP\)](#).

POSITION STATEMENT ON EVOLUTION

Evolution is the generation-to-generation change in the frequency of alleles in the gene pool and the division of populations into lineages. That this occurs is a fact. Evidence for the modes and tempos of evolution coming from laboratory genetics, population genetics, natural history, systematics, and paleontology, is so overwhelming that no scientific discipline refutes evolution. Understanding this concept is crucial to understanding all disciplines of biology including but not limited to ecology and evolutionary biology, cellular and molecular biology, and medicine. Therefore, the Biological Sciences program integrates evolution into all of its courses and does not teach non-scientific concepts based on mythology or literature.

STUDENT ORGANIZATIONS

Aggie Club–The Cameron University Aggie Club, built on tradition, hard work, fun and friendliness, has been a part of the university from its beginnings and has gained recognition as an outstanding organization that provides a wide variety of events that are fun for everyone.

Biology Club–The Biology Club provides fellowship for biology students and other individuals interested in biological sciences.

Beta Beta Beta–Tri Beta is an honor society which provides fellowship for biology students and promotes interest in graduate and professional studies.

Health Professions Society (HPS)–Health Professions Society (HPS) promotes student enrichment for all Cameron University students interested in pursuing a health career.

Pre-Nursing Club–The Pre-Nursing Club provides students with the opportunity to learn about nursing-related instruction, degree program requirements, application procedures and dates, and the nursing profession. The club exists to support its members in achieving their career goals in the field of nursing through a variety of informational events and fun activities.



Degree Requirements: Radiologic Technology (585)-Associate in Applied Science

School of Arts and Sciences

Department of Agriculture, Biology, and Health Sciences

Catalog Year: 2021-2023

General Education Requirements (19 hours)

Required Courses-19 hours

BIOL 1214/1214L Human Biology with lab
 COMM 1113 Principles of Communication
 ENGL 1113 English Composition I
 MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513
 HIST 1483 or 1493 U.S. History To or Since 1865
 PS 1113 American Federal Government

University Requirements (4-6 hours)

UNIV 1001 or 1113-1-3 hours
 Computer Literacy-IT 1013 or MIS 2113

Major Requirements (61 hours)

NOTE: All Courses Listed Below are Required

Technical-Occupational Specialty Courses (7 hours)

BIOL 2013 Medical Terminology (FA, SP)¹
 BIOL 2034/2034L Human Anatomy with Lab (FA, SP)¹

Technical-Occupational Specialty Courses (54 hours²)

RAD 2012/L Intro to Radiologic Sci & Hlth Care/Lab (FA)
 RAD 2113/L Patient Care in Radiologic Sciences/Lab (FA)
 RAD 2123/L Radiation Physics Lab (FA)
 RAD 2134 Radiographic Proc & Image Analysis I (FA)
 RAD 2134L Radiographic Proc & Image Analysis I Lab (FA)
 RAD 2204 Clinical Practice I (SP)
 RAD 2214 Principles of Exposure (SP)
 RAD 2224/L Radiographic Proc & Image Analysis II/Lab (SP)
 RAD 2302 Clinical Practice II (SU)
 RAD 2311 Basic Princ of Computed Tomography (SU)
 RAD 2323/L Radiographic Proc & Image Analysis III Lab (SU)
 RAD 2402 Radiographic Pathology (FA)
 RAD 2414 Clinical Practice III (FA)
 RAD 2422 Digital Image Acquisition & Display (FA)
 RAD 2434/L Radiographic Proc & Image Analysis IV Lab (FA)
 RAD 2503 Clinical Practice IV (SP)
 RAD 2513 Radiation Biology & Protection (SP)
 RAD 2523/L Pharmacology & Veniculture/Lab (SP)
 RAD 2533 Radiologic Technology Seminar (SP)

FA=Fall; SP=Spring; SU=Summer

¹A minimum grade of C in BIOL 2013 and BIOL 2034/2034L is required for admission to the Radiologic Technology program.

²Credit to contact hour ratios for RAD courses are as follows:

Didactic (Lecture): 1 credit hour=16 contact hours

Lab: 1 credit hour=40 contact hours

Clinical: 1 credit hour=82.5 contact hours

General Electives (To Complete 81 hours)

Graduation Requirements

Complete All Department Requirements
 Minimum 81 Total Credit Hours
 Minimum 15 Credit Hours in Residence at Cameron
 Retention GPA 2.0; Cameron GPA 2.0
 Complete Graduation Application Online



Degree Requirements: Respiratory Care (575)-Associate in Applied Science

School of Arts and Sciences

Department of Agriculture, Biology, and Health Sciences

Catalog Year: 2021-2023

General Education Requirements (26-27 hours)
Required Courses (26-27 hours)
COMM 1113 Principles of Communication ENGL 1113 English Composition I BIOL 1214/L Human Biology and Lab ¹ CHEM 1004, 1105/1105L, or 1364/1361 ¹ MATH 1413, 1463, 1513, 1613, 2215, 2713, or STAT 1513 HIST 1483 or HIST 1493 U.S. History to or Since 1865 FNAR 1013 Exploring Multiculturalism PS 1113 American Federal Government
University Requirements
UNIV 1001 or 1113 (1-3 hours) Computer Literacy (RESP 2414 Respiratory Clinical Practice IV)
Major Course Requirements (40 hours)
Required Courses (40 hours)
BIOL 2013 Medical Terminology (FA, SP) ¹ RESP 2100 Respiratory Care Recitation I (FA) RESP 2113/L Respiratory Mechanics/Lab (FA) RESP 2123/L Respiratory Therapy Procedures I/Lab(FA) RESP 2133 Cardiopulmonary Anatomy and Physiology (FA) RESP 2143 Respiratory Pharmacology (FA) RESP 2153 Respiratory Pathology (FA) RESP 2161 Respiratory Clinical Practice I (FA) RESP 2200 Respiratory Care Recitation II (SP) RESP 2213/L Respiratory Therapy Procedures II/Lab (SP) RESP 2222 Respiratory Clinical Practice II (SP) RESP 2233 Critical Care (SP) RESP 2242 Pediatric Respiratory Care (SP) RESP 2253/L Mechanical Ventilation/Lab (SP) RESP 2313 Respiratory Clinical Practice III (SU) RESP 2411 NBRC Test Preparation (FA) RESP 2414 Respiratory Clinical Practice IV (FA) FA=Fall; SP=Spring; SU=Summer ¹ A minimum grade of C in BIOL 1214/1214L, BIOL 2013, and CHEM 1004, 1105/1105L, or 1364/1361 is required for admission to the Respiratory Care program.
General Electives (To Complete 66-67 hours)
Graduation Requirements
Department Requirements Minimum 66-67 Total Credit Hours Minimum 15 Credit Hours in Residence at Cameron Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online


Degree Requirements: Allied Health Sciences (565)–Associate in Science

School of Arts and Sciences

Department of Agriculture, Biology, and Health Sciences

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science: BIOL 1214/L Physical Science: CHEM 1105/1105L or 1361/1364	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	
Major Requirements (23-24 hours)		
Required Courses (11 hours)	Additional Requirements (12-13 hours)	
AHS 1003 Intro to Public Health (FA, SP) BIOL 2034/L Human Anatomy and Lab (FA, SP) BIOL 2134/L Human Physiology* and Lab (FA, SP) *Prerequisites: CHEM 1105/L or 1364/1, MATH 1513, and BIOL 2034/L. <i>FA=Fall; SP=Spring; SU=Summer</i>	Select from the following classes; consult advisor and appropriate catalogs: BIOL 2013 Medical Terminology BIOL 2124/L Microbiology* and Lab SES 2023 Nutrition SES 2033 First Aid PSY 3353 Lifespan Human Growth and Development STAT 1513 Intro to Statistics Approved Electives (3 hours) *Prerequisites: BIOL 1214, CHEM 1105/L or 1364/1, MATH 1513.	
General Electives (To Complete 68-71 hours)		
Graduation Requirements		
Department Requirements Minimum 68-71 Total Credit Hours Minimum 15 Credit Hours in Residence at Cameron Minimum 37 Liberal Arts and Science Credit Hours Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online		



Degree Requirements: Agriculture (400)–Bachelor of Science
 School of Arts and Sciences
 Department of Agriculture, Biology, and Health Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)			
Communication (9 hours)		American History (3 hours)	
ENGL 1113; ENGL 1213; COMM 1113		HIST 1483 or 1493	
Mathematics (3-5 hours)		Political Science (3 hours)	
MATH 1413, 1463, 1513, 1613, 2215, 2713		PS 1113	
Science* (8-9 hours)		Humanities* (6 hours)	
Biological Science: BIOL 1004/L, 1214L, or 1364/L Physical Science: CHEM 1004, 1105/L, or 1364/1		Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	
Health and Wellness* (4 hours)			
SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.			
General Education Non-PE Electives (To total at least 44 hours, if needed)*.			
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).			
University Requirements			
UNIV 1001 or 1113 (1-3 hours)		Computer Literacy (AGRC 4572)	
Capstone Experience (AGRC 4572)			
Major Requirement (46 hours)			
Required Core (26 hours)			
AGRC 1124/L Intro. to Animal Science & Lab (FA)		ANIM 3133 Breeds of Livestock (FA)	
AGRC 1214/L Intro. to Plant Science & Lab (SP)		AGRC 3513 Agricultural Management (FA)	
AGRC 2013 Intro. to Agricultural Economics (FA, SP)		AGRC 3613 Agricultural and Food Policy (SP)	
AGRC 2124/L Fundamentals of Soil Science & Lab (SP)		AGRC 4572 Agricultural Capstone (FA)	
<i>FA=Fall; SP=Spring; SU=Summer</i>			
Option (20 hours)			
Agribusiness Management (20 hrs) <i>Required Courses (9 hrs)</i> ACCT 2013 Princ Fin Acct AGRC 3303 Ag Marketing AGRC 4333 Ag Finance <i>Electives (11 hrs)</i> Min. of 11 hours selected from ACCT, BUS, ECON, FIN, MKTG, or MGMT (Max. 3 hrs in AGRC 4421-3. (Courses in the Dept of Business may require additional prereqs.)	Agronomy (20 hrs) <i>Required Courses (9 hrs)</i> AGRC 4223 Integrated Pest Mgmt AGRN 3213 Forage, Range, & Pasture Crops AGRN 3513 Fiber & Oilseed Crops <i>Electives (11 hrs)</i> Min. of 11 hrs selected from AGRC, AGRN, ANIM, BIOL (above 1364), or ENSC (Max. 3 hrs each in AGRC 4321-3 or AGRC 4421-3)	Animal Science (20 hrs) <i>Required Courses (10 hrs)</i> AGRC 4223 Integrated Pest Mgmt ANIM 3653 Anim Nutrition ANIM 4434 Anim Reprod <i>Electives (10 hrs)</i> Min. of 10 hrs selected from AGRC, AGRN, ANIM, BIOL (above 1364), or ENSC (Max. 3 hrs each in AGRC 4321-3 or AGRC 4421-3)	General Agriculture (20 hrs) <i>Required Course (3 hrs)</i> AGRC 4223 Integrated Pest Mgmt <i>Electives (17 hrs)</i> Min. of 17 hrs selected from AGRC, AGRN, ANIM, BIOL (above 1364), or ENSC (Max. 3 hrs each in AGRC 4321-3 or AGRC 4421-3).
Additional Requirements (3 hours)			
STAT 1513 Introduction to Statistics OR STAT 2013 Intro Probability and Statistics I OR STAT 2613 Business Statistics OR BIOL 4153 Biometry (Some courses may require additional prerequisites)			
General Electives (To Complete 124 hours)			
Graduation Requirements			
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron		Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	



Degree Requirements: Biology (310)–Bachelor of Science
 School of Arts and Sciences
 Department of Agriculture, Biology, and Health Sciences
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1513, 1613, 2215, 2713	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science: BIOL 1364/L Physical Science: CHEM 1361/1364	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (BIOL 4901)	Capstone Experience (BIOL 4901)
Major Requirements (44-63 hours)		
Required Core Courses (14-25 hours)	Concentration (19-49 hours)	
BIOL 1364/L Principles of Biology I & Lab ((FA, SP) BIOL 1474/L Principles of Biology II & Lab (FA, SP) BIOL 2144/L Botany & Lab (<i>Conc CMB & OB only</i>) (SP) BIOL 2154/L Zoology & Lab (<i>Conc CMB & OB only</i>) (FA) BIOL 3014/L Genetics & Lab (FA, SP) BIOL 3043 Evolution (<i>Conc CMB & OGB only</i>) (FA) BIOL 3901 Biology Capstone I (FA) BIOL 4901 Biology Capstone II (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	Choose one of the following: Cell and Molecular Concentration Organismal Biology Concentration Medical Laboratory Science (See next page for course list)	
Additional Requirements (22-34 hours)		
CHEM 1361/1364 General Chemistry I & General Chemistry I Lab (<i>All Concs</i>) CHEM 1471/1474 General Chemistry II & General Chemistry II Lab (<i>All Concs</i>) CHEM 3314/L Organic Chemistry I & Lab (<i>All Concs</i>) CHEM 3324/L Organic Chemistry II & Lab (<i>Concs CMB & MLS</i>) CHEM 4403 Biochemistry I (<i>Concs CMB & MLS</i>) MATH 1613 Plane Trigonometry (or higher) (<i>Concs CMB & OB</i>) MATH 1513 or higher (<i>Conc OB</i>) PHYS 1115/L Physics I & Lab OR PHYS 2015/L Physics I for Science and Engineering Majors I & Lab (<i>Concs CMB & OB</i>) PHYS 1215/L Physics II & Lab OR PHYS 2025/L Physics II for Science and Engineering Majors I & Lab (<i>Conc CMB</i>)		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Div Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

Degree Requirements: Biology (310)–Bachelor of Science (Cont'd)**Concentration (19–49 hours)**

Cellular and Molecular Biology (CMB)	Organismal Biology (OB)
<i>Required Courses (8 hours)</i>	<i>Required Courses (8 hours)</i>
BIOL 3174/L Molecular Biology & Lab	BIOL 3064/L Ecology & Lab
BIOL 4174/L Cell Biology & Lab	BIOL 3054/L Plant Taxonomy & Lab OR BIOL 3074/L
<i>Electives (11-12 hours)</i>	Natural History of Vertebrates & Lab OR BIOL 3104/L
BIOL 2034/L Human Anatomy & Lab	Comparative Vertebrate Anatomy & Lab
BIOL 2124/L Microbiology & Lab	<i>Electives (11-12 hours)</i>
BIOL 3054/L Plant Taxonomy & Lab	BIOL 2034/L Human Anatomy & Lab
BIOL 3064/L Ecology & Lab	BIOL 2124/L Microbiology & Lab
BIOL 3074/L Natural History of the Vertebrates & Lab	BIOL 3054/L Plant Taxonomy & Lab
BIOL 3084/L Ornithology & Lab	BIOL 3074/L Natural History of the Vertebrates & Lab
BIOL 3093 Immunology	BIOL 3084/L Ornithology & Lab
BIOL 3104/L Comparative Vertebrate Anatomy & Lab	BIOL 3093 Immunology
BIOL 3114/L Mammalogy & Lab	BIOL 3104/L Comparative Vertebrate Anatomy & Lab
BIOL 3124/L Histology & Lab	BIOL 3114/L Mammalogy & Lab
BIOL 4004/L Physiology & Lab	BIOL 3124/L Histology & Lab
BIOL 4054/L Vascular Plant Morphology & Lab	BIOL 3174/L Molecular Biology & Lab
BIOL 4064/L Advance Ecology & Lab	BIOL 4004/L Physiology & Lab
BIOL 4114/L Advanced Microbiology & Lab	BIOL 4054/L Vascular Plant Morphology & Lab
BIOL 4121-4* Special Studies	BIOL 4064/L Advanced Ecology & Lab
BIOL 4153 Biometry	BIOL 4114/L Advanced Microbiology & Lab
BIOL 4163 Physiology & Molecular Biology of Plants	BIOL 4121-4* Special Studies
*(Maximum 4 hours of upper level credit)	BIOL 4153 Biometry
Medical Laboratory Science (MLS)	BIOL 4163 Physiology & Molecular Biology of Plants
<i>Required Courses (49 hours)</i>	BIOL 4174/L Cell Biology & Lab
BIOL 2124/L Microbiology & Lab	*(Maximum 4 hours of upper level credit)
BIOL 2134/L Human Physiology & Lab OR BIOL 4004/L	
Physiology & Lab	
BIOL 3093 Immunology	
BIOL 3174/L Molecular Biology & Lab	
BIOL 4174/L Cell Biology & Lab	
MLS 4117 Clinical Microbiology*	
MLS 4125 Clinical Chemistry*	
MLS 4236 Clinical Hematology*	
MLS 4246 Clinical Immunology*	
MLS 4325 Clinical Chemistry II*	
MLS 4351 Topics in Medical Technology*	
<i>*Acceptance into an approved Oklahoma Consortium of Clinical</i>	
<i>Laboratory Science Affiliates (OCCLSA) clinical training program</i>	
<i>and departmental permission is required.</i>	

DEPARTMENT OF ART, MUSIC, AND THEATRE ARTS

FACULTY

CHAIR–Scott Richard Klein, Professor

PROFESSORS–G. Hoepfner, E. McMillan, H. Whang

ASSOCIATE PROFESSORS–E. Abbott, K. Underwood

ASSISTANT PROFESSORS–L. Kaspar, J. Little, C. Morren

MISSION STATEMENTS

The Department of Art, Music, and Theatre Arts actively seeks to make the university a driving force in the cultural life and economic development of our community by producing art exhibitions, concerts, recitals, and theatre productions to enrich the intellectual and cultural lives of our constituents. The disciplines of Art, Music, and Theatre Arts energize the cultural life of the Cameron Campus and surrounding communities. We believe in the power of aesthetics and in the unique talents of each student. We strive to inspire and guide artists, educators, musicians, actors, designers, and scholars to achieve success as well as to become citizens of the world.

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

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

Cameron University's Music programs have a three-fold mission of (a) service to the Music major, (b) service to the non-Music major (including the music minor), and (c) service to the community. The Cameron University Music Unit programs goals, and objectives emphasize the acquisition of music skills, knowledge, values, and professional attitudes. The unit's goals are: to prepare music majors for professional careers as either music educators or music performers; to provide non-music majors with an opportunity to become acquainted with or improve their music skills or knowledge in music; and to serve the area community with opportunities for music performance, departmental concert offerings, or improvement in the community member's own music skills. The unit's objectives are the music student will demonstrate a basic understanding of general principles of music and professional musicianship; demonstrate a basic performance competence in the selected medium of music performance; and during their undergraduate matriculation, will demonstrate adequate preparation for potential success.

The Bachelor of Arts in Theatre provides a program of study focusing on opportunities for personal and artistic development and growth, as well as

opportunities to develop collaboration, communication, reasoning, and leadership skills required for professional careers in theatre or related areas. Students pursuing the program in Theatre Arts should achieve a level of competence in performance, technical theatre, and the academic areas of theatre history, literature, and criticism/analysis. They acquire skills in each of these areas through the department's course offerings, as well as through its production program. The production aspect of the program also provides an important community outreach opportunity. Non-majors may select Theatre Arts courses to fulfill humanities requirements or as electives.

PROGRAMS OF STUDY

Degrees & Majors: B.A. Art

B.A. Music

B.A. Theatre Arts

- Performance
- Technical

B.F.A. Art

- Graphic Design
- Painting
- Printmaking
- Sculpture

B.M. Music

- Composition
- Piano Performance
- Instrumental Performance
- Vocal Performance

B.M.E. Music Education

- Instrumental/General
- Vocal/General

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Art \(ART\)](#), [Fine Arts \(FNAR\)](#), [Music \(MUSC\)](#), and [Theatre Arts \(THTR\)](#).

STUDENT ORGANIZATIONS

Alpha Psi Omega–Alpha Psi Omega is the National Theatre Honor Society.

Kappa Kappa Psi–Kappa Kappa Psi serves as the honors society for collegiate band programs.

Mu Phi Epsilon–Mu Phi Epsilon is a co-educational International Professional Music Fraternity. Its purpose is the recognition of scholarship and musicianship, and the development of a bond of friendship among its members.



Degree Requirements: Art (110)–Bachelor of Arts
 School of Arts and Sciences
 Department of Art, Music, and Theatre Arts
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (ART 1231)	Capstone Experience (ART 4991)
Major Requirements (47 hours)		
Required Courses (26 hours)		
ART 1113 Drawing I (FA) ART 1123 Drawing II (SP) ART 1213 Design I (FA) ART 1223 Design II (SP) ART 1231 Computer-Studio Lab (FA)	ART 2243 Color (FA) ART 2613 History of Art I (FA) ART 2623 History of Art II (SP) ART 4633 Hist of Art Seminar: Origins Modern Art (SP) ART 4991 Senior Art Exhibition and Capstone (SP)	
<i>FA=Fall; SP=Spring; SU=Summer</i>		
Major Electives (21 hours)		
ART 3133 Figure Drawing OR ART 4143 Advanced Drawing AND 18 hours taken in at least three content areas (<i>Painting, Printmaking, Sculpture, or Graphic Design</i>); at least 9 hours must be upper division.		
<i>Painting:</i> ART 2313 Painting AND up to 6 hours chosen from: ART 4333 Adv Painting II: Contemporary Painting Tech ART 4343 Adv Painting III: Subject Matter Exploration ART 4353 Adv Painting IV: Style Exploration ART 4363 Adv Painting V: Painting Thesis Introduction ART 4373 Adv Painting VI: Painting Thesis Conclusion ART 4383 Adv Painting: Traditional Watercolor ART 4393 Advanced Painting: Contemporary Watercolor	<i>Sculpture:</i> ART 2513 Sculpture AND up to 6 hours chosen from: ART 4533 Adv Sculpture II: TIG Welding/Hand Building Clay ART 4543 Adv Sculpture III: Sp Pr Welding/Wd/Cl ART 4553 Adv Sculpture IV: Time-Based Media ART 4563 Adv Sculpture V: Public Installation Sculpture ART 4573 Adv Sculpture VI: Exhibition Design/Construction	<i>Graphic Design:</i> ART 2253 Computer Graphic Design AND up to 6 hours chosen from: ART 2743 Typography ART 3213 Graphic Design ART 3743 Adv Computer Graphics ART 3753 Layout/Production ART 4213 Advanced Graphic Design ART 4713 History of Graphic Design
<i>Printmaking:</i> ART 2413 Printmaking AND up to 6 hours chosen from: ART 4433 Adv Printmaking II: Woodcut ART 4443 Adv Printmaking III: Serigraphy ART 4453 Adv Printmaking IV: Monoprint/Monotype ART 4463 Adv Printmaking V: Relief Linocut ART 4473 Adv Printmaking VI: Lithography/Relief ART 4483 Adv Printmaking VII: Lithography		
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 80 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at CU	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	


Degree Requirements: Music (160)-Bachelor of Arts

School of Arts and Sciences

Department of Art, Music, and Theatre Arts

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity: MUSC 1033 Aesthetics: Any non-MUSC Humanities *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (MUSC 3333)	Capstone Experience (MUSC 4900)
Major Requirements (38 hours)		
Required Courses (38 hours)		
MUSC 1000 Concert/Recital Attendance (7 sem.) (FA, SP) <i>Major Ensemble (8 semesters, 1 hour each) Choose from the following, in an ensemble appropriate for focus area:</i> MUSC 1110-1 Concert Band (FA, SP) MUSC 1120-1 Orchestra (FA, SP) MUSC 1140-1 Concert Choir (FA, SP) MUSC 1150-1 Guitar Ensemble (FA, SP) MUSC 3171 Accompanying (FA, SP) <i>Piano, Strings and Guitar students must take 2 semesters of Major Ensemble in either Concert Band or Concert Choir, can be for 0 hours.</i>	MUSC 2341 Sight, Singing & Ear Training II (SP) MUSC 3321 Sight, Singing & Ear Training III (FA) MUSC 3513 Music History I (FA) MUSC 3523 Music History II (SP) MUSC 3612 Fundamentals of Conducting (Odd FA) <i>Major Lesson Field (8 hours)</i> MUSC 1201 Class Lessons (FA, SP) MUSC 2201-2 Private Lessons (FA, SP) MUSC 3801-4 Private Lessons (FA, SP) MUSC 4801-4 Private Lessons (Min. 2 hours) (FA, SP) <i>Piano (4 hours)</i> MUSC 1201 Class Lessons: Piano (FA, SP) <i>(Not required if proficiency is met)</i> MUSC 4900 Senior Music Capstone (FA, SP) <i>All music majors (BA) must pass a junior standing examination and a keyboard proficiency examination before their junior year.</i>	
<i>FA=Fall; SP=Spring; SU=Summer</i>		
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

**Degree Requirements: Theatre (170)–Bachelor of Arts**

School of Arts and Sciences

Department of Art, Music, and Theatre Arts

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (THTR 4993)	Capstone Experience (THTR 4993)
Major Requirements–56 hours		
Required Courses (8 hours)	Option (15 hours)	Electives in Theatre (3 hours)
THTR 1001 Thtr Pract (8 Sem) (FA, SP) THTR 1103 Intro to Theatre (FA, SP) THTR 1203 Tech Production (Even FA) THTR 2403 Stage Mgmt (Even FA) THTR 2603 Acting I (Even FA) THTR 3403 Directing (Even SP) THTR 3803 T/D: Beginning (Even FA) THTR 3813 T/D: Renais/Japan (Odd SP) THTR 3823 T/D:18/19 th C (Odd FA) THTR 3833 T/D:20/21C/Chna (Even SP) THTR 4993 Theatre Arts Capstone (FA) <i>FA=Fall; SP=Spring; SU=Summer</i>	Select one of the following: Performance THTR 1133 Voice and Diction THTR 1503 Make-Up THTR 1603 Stage Movement THTR 3603 Acting II THTR 4603 Acting III: Period Styles Technical THTR 1503 Make-up OR THTR 3703 Audio THTR 2203 Stagecraft THTR 2503 Costume Techniques THTR 3303 Lighting THTR 4203 Scene Design OR THTR 4303 Lighting Design OR THTR 4503 Costume Design	May include the following: THTR 1901-3 Theatre Lab THTR 3901-3 Workshop THTR 4901-3 Independent Study THTR 4911-3 Seminar THTR 4921-6 Internship All Theatre majors are required to keep a portfolio of their work and complete a final project. (See advisor for details.)
General Electives–to Complete 124 hours		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	



Degree Requirements: Art (111)–Bachelor of Fine Arts
 School of Arts and Sciences
 Department of Art, Music, and Theatre Arts
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)			
Communication (9 hours)		American History (3 hours)	
ENGL 1113; ENGL 1213; COMM 1113		HIST 1483 or 1493	
Mathematics (3-5 hours)		Political Science (3 hours)	
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513		PS 1113	
Science* (8-9 hours)		Humanities* (6 hours)	
Biological Science (4 hours) Physical Science (4–5 hours) *One course must be a lab science.		Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	
Behavioral Science (3 hours)			
FAMS 1123, PSY 1113, SOCI 1113			
Economics (3 hours)			
AGRC 2013, ECON 2003, ECON 2013, GEOG 3023			
Health and Wellness* (4 hours)			
SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.			
General Education Non-PE Electives (To total at least 44 hours, if needed)*.			
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).			
University Requirements			
UNIV 1001 or 1113 (1-3 hours)		Computer Literacy (ART 1231 or 2253)	Capstone Experience (ART 4991)
Major Requirements–68 hours			
Required Courses–32 hours			
ART 1113 Drawing I (FA) ART 1123 Drawing II (SP) ART 1213 Design I (FA) ART 1223 Design II (SP) ART 1231 Computer-Studio Lab (FA) ART 2243 Color (FA)		ART 2613 History of Art I (FA) ART 2623 History of Art II (SP) ART 3133 Figure Drawing (FA) ART 4633 Hist of Art Sem: Origins of Modern Art (SP) ART 4643 Hist of Art Sem: Mod Art Movements (Even FA) ART 4991 Senior Art Exhibition and Capstone (SP)	
<i>FA=Fall; SP=Spring; SU=Summer</i>			
Option (36 hours)			
Graphic Design (36 hours) <i>Required Courses (27 hours)</i> ART 2253 Comp Graph Desgn ART 2743 Typography ART 3213 Graphic Design ART 3743 Adv Comp Grph/Imge Enhanc ART 3753 Layout/Production ART 4213 Adv Graph Desgn ART 4713 Hist Graphic Desgn ART 4733 Internship/Art Portfolio ART 4933 Senior Art Studio <i>Major Electives (9 hours)</i> Selected in consultation with advisor from at least 2 add'l options.	Painting (36 hours) <i>Required (15 hours)</i> ART 2313 Painting ART 4143 Adv Drawing ART 4323 Adv Painting I ART 4363 Adv Painting V ART 4373 Adv Painting VI; <i>Advanced & Major Electives (21 hours)</i> <i>Advanced Electives (9 hours)</i> Selected from: ART 4333 Adv Painting II ART 4343 Adv Painting III ART 4353 Adv Painting IV ART 4383 Adv Pnt: Trad Wtrcl ART 4393 Adv Pnt:Cont Wtrcl <i>Major Electives (12 hours)</i> Selected in consultation with an advisor, from at least two add'l options.	Printmaking (36 hours): <i>Required (9 hours)</i> ART 2413 Printmaking ART 4143 Adv Drawing ART 4423 Adv Printmaking I <i>Advanced & Major Electives (27 hours)</i> <i>Advanced Electives (15 hours)</i> Selected from: ART 4433 Adv Prntmkg II ART 4443 Adv Prntmkg III ART 4453 Adv Prntmkg IV ART 4463 Adv Prntmkg V ART 4473 Adv Prntmkg VI ART 4483 Adv Prntmkg VII <i>Major Electives (12 hours)</i> Selected in consultation with an advisor, from at least two add'l options.	Sculpture (36 hours): <i>Required (24 hours)</i> ART 2513 Sculpture ART 4143 Adv Drawing ART 4523 Adv Sculptr I ART 4533 Adv Sculptr II ART 4543 Adv Sculptr III ART 4553 Adv Sculptr IV ART 4563 Adv Sculptr V ART 4573 Adv Sculptr VI <i>Major Electives (12 hours)</i> Selected in consultation with an advisor, from at least two add'l options. ART 4911-4 Workshop may be used in partial fulfillment of this requirement.
General Electives (To Complete 124 Hours)			
Graduation Requirements			
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 40 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron		Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	



Degree Requirements: Music (161)–Bachelor of Music
 School of Arts and Sciences
 Department of Art, Music, and Theatre Arts
 Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity: MUSC 1033 Aesthetics: Any non-MUSC Humanities *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (MUSC 3333)	Capstone Experience (MUSC 4900)
Major/Minor Requirements (81 hours)		
Required Courses (44 hours)		
MUSC 1000 Concert/Recital Attendance (7 sem)(FA, SP) <i>Major Ensemble (8 semesters, 1 hour each) Choose from the following, in an ensemble appropriate for concentration:</i> MUSC 1110-1 Concert Band (FA, SP) MUSC 1120-1 Orchestra (FA, SP) MUSC 1140-1 Concert Choir (FA, SP) MUSC 1150-1 Guitar Ensemble (FA, SP) MUSC 3171 Accompanying (FA, SP) <i>Piano, Strings and Guitar students must take 2 semesters of Major Ensemble in either Concert Band or Concert Choir, can be for 0 hours.</i> MUSC 2312 Harmony & Structure I (FA) MUSC 2332 Harmony & Structure II (SP) MUSC 3313 Harmony & Structure III (FA)	MUSC 3333 Harmony & Structure IV (SP) MUSC 2321 Sight, Singing & Ear Training I (FA) MUSC 2341 Sight, Singing & Ear Training II (SP) MUSC 3321 Sight, Singing & Ear Training III (FA) MUSC 3341 Sight, Singing & Ear Training IV (SP) MUSC 3513 Music History I (FA) MUSC 3523 Music History II (SP) MUSC 3612 Fundamentals of Conducting (Odd FA) MUSC 3622 Advanced Conducting (Even SP) MUSC 3990 Junior Recital (FA, SP) MUSC 4343 Arranging (Even FA) MUSC 4900 Senior Music Capstone (FA, SP) MUSC 4990 Senior Recital (FA, SP)	
<i>FA=Fall; SP=Spring; SU=Summer</i>		
Option: Major Lesson Field (31-35 hours)		
Composition Instrumental Performance Piano Performance Vocal Performance <i>(Requirements listed on next page)</i>		
Upper Division Electives in Music Theory or Music History (6 hours)		
<i>Must take 6 hours from the list below.</i> MUSC 3981-3 Special Topics in the Advanced Study of Music MUSC 4312 Counterpoint MUSC 4322 Post Tonal Techniques MUSC 4332 Form & Analysis MUSC 4362 Computer Music MUSC 4981-3 Independent Study		
General Elective (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 40 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	

Degree Requirements: Music (161)-Bachelor of Music (Cont'd)**Major/Minor Requirements (81 hours) (Cont'd)****Option: Major Lesson Field (31-35 hours)****Composition (31 hours)**

MUSC 3351-3 Composition (6 hours)

MUSC 4351-3 Composition (8 hours)

MUSC 4362 Computer Music

Piano (4 hours)

MUSC 1201 Class Piano I-V (or demonstrated competency)

Minor Lesson Field (6 hours)

MUSC 3801-4 Private Lessons

MUSC 4801-4 Private Lessons

*MUSC Electives (5 hours)***Vocal Performance (34 hours)***Vocal Diction (2 hours)*

MUSC 3761 English and Italian Diction

MUSC 3771 French and German Diction

MUSC 4753 Vocal Pedagogy

Major Lesson Field (16 hours)

MUSC 3801-4 Private Lessons: Voice

MUSC 4801-4 Private Lessons: Voice (Min. 8 hours)

Piano (6 hours)

MUSC 1201 Class Lessons: Piano I-V

MUSC 3801 Private Lessons: Piano.

Foreign Language (3 hours)

(German, French or Italian recommended.)

*MUSC Electives (4 hours)***Instrumental Performance (33 hours)***Major Lesson Field (16 hours)*

MUSC 3801-4 Private Lessons (Major instrument)

MUSC 4801-4 Private Lessons (Major instrument) (Min. 8 hours)

Piano (4 hours)

MUSC 1201 Class Piano I-V (or demonstrated competency)

*Minor Lesson Field (6 hours)*MUSC 3801-4 Private Lessons (Secondary instrument)
(Min 3 hours in Private Lessons: Voice)*MUSC Electives (5 hours)**Methods Courses (2 hours)**Choose one from the following:*

MUSC 3642 Woodwind Methods

MUSC 3652 Brass Methods

MUSC 3662 String Methods

MUSC 3672 Percussion Methods

Piano Performance (31 hours)

MUSC 4743 Keyboard Pedagogy

Major Lesson Field (16 hours)

MUSC 3801-4 Private Lessons: Piano

MUSC 4801-4 Private Lessons: Piano (Min. 8 hours)

Minor Lesson Field (6 hours)

MUSC 3801-4 Private Lessons

MUSC 4801-4 Private Lessons

(Min 3 hours in Private Lessons: Voice)

MUSC Electives (6 hours)

All music Majors (BM Degree) must pass an entrance examination, a junior standing examination, and a keyboard proficiency examination, and must enroll in the major ensemble appropriate to the student's area of concentration for 8 semesters.


Degree Requirements: Music Education (681)-Bachelor of Music Education

School of Arts and Sciences
Department of Art, Music, and Theatre Arts
Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours) ENGL 1113; ENGL 1213; COMM 1113	American History (3 hours) HIST 1483 or 1493	Behavioral Science (3 hours) PSY 1113
Mathematics (3-5 hours) MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	Political Science (3 hours) PS 1113	Economics (3 hours) AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours) Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Humanities* (6 hours) Diversity: MUSC 1033 Aesthetics: Any non-MUSC Humanities *One course taken from each category.	Health and Wellness* (4 hours) SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (EDUC 3673)	Capstone Experience (MUSC 4900)
Major Requirements (86-87 hours)		
Required Courses (29 hours)		
<p>MUSC 1000 Concert/Recital Attendance (7 semesters)(FA, SP) <i>Major Ensemble (8 semesters) Choose from the following, in an ensemble appropriate for concentration:</i></p> <p>MUSC 1110-1 Concert Band (FA, SP) MUSC 1120-1 Orchestra (FA, SP) MUSC 1140-1 Concert Choir (FA, SP) MUSC 1150-1 Guitar Ensemble (FA, SP) MUSC 3171 Accompanying (FA, SP) <i>Piano, Strings and Guitar students must take 2 semesters of Major Ensemble in either Concert Band or Concert Choir, can be for 0 hours.</i></p> <p>MUSC 2312 Harmony & Structure I (FA) MUSC 2321 Sight, Singing & Ear Training I (FA) MUSC 2332 Harmony & Structure II (SP)</p> <p>MUSC 2341 Sight, Singing & Ear Training II (SP) MUSC 3313 Harmony & Structure III (FA) MUSC 3321 Sight, Singing & Ear Training III (FA) MUSC 3333 Harmony & Structure IV (SP) MUSC 3341 Sight, Singing & Ear Training IV MUSC 3513 Music History I (FA) MUSC 3523 Music History II (SP) MUSC 3612 Fundamentals of Conducting (Odd FA) MUSC 3622 Advanced Conducting (Even SP) MUSC 4343 Arranging (Even FA) MUSC 4712 Elementary Methods (Odd FA) MUSC 4900 Senior Music Capstone (FA, SP) MUSC 4990 Senior Recital (FA, SP)</p> <p style="text-align: center;"><i>FA=Fall; SP=Spring; SU=Summer</i></p>		
Option: Major Lesson Field-24-25 hours		
Instrumental/General (25 hours) MUSC 1201 Class Lessons-Voice OR MUSC 3801 Private Lessons-Voice MUSC 3642 Woodwind Methods MUSC 3652 Brass Methods MUSC 3662 String Methods MUSC 3672 Percussion Methods MUSC 4722 Secondary Instrumental Methods <i>Major Lesson Field (10 hours)</i> MUSC 1201 Class Lessons MUSC 2201-2 Private Lessons MUSC 3801-4 Private Lessons MUSC 4801-4 Private Lessons (Min. 2 hours) <i>Piano (4 hours)</i> MUSC 1201 Class Lessons: Piano	Vocal/General (24 hours) MUSC 3642 Woodwind Methods OR MUSC 3652 Brass Methods OR MUSC 3662 String Methods OR MUSC 3672 Percussion Methods OR MUSC 3812 Instrumental Methods for Vocal and Keyboard Education MUSC 4732 Secondary Vocal Methods <i>Major Lesson Field (Voice or Keyboard) (10 hours)</i> MUSC 1201 Class Lessons MUSC 2201-2 Private Lessons MUSC 3801-4 Private Lessons MUSC 4801-4 Private Lessons (Min. 2 hours) <i>Vocal Diction (2 hours)</i> MUSC 3761 English and Italian Diction MUSC 3771 French and German Diction MUSC 4753 Vocal Pedagogy <i>Piano (4 hours)</i> MUSC 1201 Class Lessons: Piano <i>MUSC Guided Elective (1 hour)</i>	

Degree Requirements: Music (681)-Bachelor of Music Education (Cont'd)**Major Requirements (86-87 hours) (Cont'd)****Required Education Courses (33 hours)**

EDUC 1800 Educ Introductory Seminar	EDUC 4653 Classroom Assessment (R)
EDUC 3003 Introduction to Teaching	EDUC 4935 Clinical Exper in Teaching I*(R)
EDUC 3612 Classroom Management*	EDUC 4945 Clinical Exper in Teaching II *(R)
EDUC 3673 Media & Technology in Education	SPED 3103 The Exceptional Child
EDUC 3733 Developmental Psychology	*Should be taken in professional semester.
EDUC 3753 Educational Psychology(R)	(R)Restricted to students admitted to Teacher Education
EDUC 4313 Practicum in Assess. & Instruction(R)	

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.

General Electives (To Complete 138 hours)

Graduation Requirements	Teacher Education Requirements
Department Requirements	Grade of "C" or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities.
Minimum 138 Total Credit Hours	Grade of "S" in EDUC 1800.
Minimum 40 Upper Division Credit Hours	Concurrent enrollment OR grade of "C" or better in EDUC 3003, 3733, & Science.
Minimum 40 Liberal Arts & Science Credit Hours	Passing scores on Nelson Denny reading test and OGET.
Minimum 30 Credit Hours in Residence at Cameron	Passing score on EDUC 3003 lesson plan rubric.
Minimum 60 Credit Hours at a 4-Year Institution	Maintain a GPA of 2.5 at all times.
Minimum ½ of Major Upper Division Hours Completed at CU	3 positive recommendations forms.
15 of last 30 Credit Hours or ½ of Major Completed at CU	Satisfactory completion of entry interview.
Retention GPA 2.0; Cameron GPA 2.0	
Complete Graduation Application Online.	
Foreign Language Proficiency or Successful Proficiency Test	

DEPARTMENT OF CHEMISTRY, PHYSICS, AND ENGINEERING**FACULTY****CHAIR**–Kyle Moore, Associate Professor**PROFESSORS**–C. Bryan, A. Nalley**ASSOCIATE PROFESSORS**–S. Youngblood**ASSISTANT PROFESSORS**–S. Hazra, J. Kelsey, R. Lirag, R. Nayak**MISSION STATEMENT**

The Department of Chemistry, Physics, and Engineering at Cameron University provides both a liberal arts and professional education in the Physical Sciences and Engineering at the undergraduate level by providing:

- 1) a rigorous basic education in chemistry and physics both in theory and practice at various levels appropriate for students to prepare to become professionals in their selected fields of study as a major in chemistry or physics;
- 2) an education appropriate for those students preparing to teach science in the secondary schools;
- 3) provide two years of education for students within the field of engineering;
- 4) coursework appropriate for students to understand physical science as part of their general education curriculum; and
- 5) theory and practice in the physical sciences for those students preparing for healthcare and other careers requiring chemistry and physics.

PROGRAMS OF STUDY**Degrees & Majors:** A.A.S. Engineering

- Civil Engineering
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

B.S. Chemistry

- ACS Certified
- Non-ACS Certified
- Health Profession

B.S. Physics

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.

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Astronomy \(ASTR\)](#), [Chemistry \(CHEM\)](#), [Engineering \(ENGR\)](#), [Physical Science \(PSCI\)](#), and [Physics \(PHYS\)](#).

GENERAL INFORMATION

The Department of Chemistry, Physics, and Engineering is dedicated to excellence in education and undergraduate research. Many faculty members are involved in research and mentor undergraduate projects spanning a diverse area of chemistry, physics, and engineering. Much of this research is supported through grants and the department facilities. Our facilities include modern instrumentation techniques using spectroscopy, electrochemistry, chromatography, mass spectroscopy, calorimetry, and thermogravimetric analysis.

STUDENT ORGANIZATIONS

American Chemical Society (ACS)/Chi Lambda Upsilon (Cameron University Chemistry Club)–ACS/Chi Lambda Upsilon, collectively known as the Cameron University Chemistry Club, seeks to educate the community and our members about chemistry. The club also promotes awareness of Cameron's Department of Chemistry, Physics, and Engineering throughout Southwest Oklahoma through the judging of science fairs, the production of Chemquest and the presentation of speakers.

Engineering Club–The Cameron Engineering Club introduces students to the modern concepts of engineering through demonstrations, building projects, and hosting of engaging speakers. The club's goal is to educate students and to foster interest in the field of engineering in the community.

Sigma Pi Sigma Society of Physics Students–Sigma Pi Sigma is an American honor society in physics. The society is an organization within the American Institute of Physics. It is the oldest honor society at Cameron University. The goals of the society are to honor outstanding scholarship in physics, to encourage students' interest in physics, to promote public service, and to provide a fellowship of persons who have excelled in physics.



Degree Requirements: Engineering (545)–Associate in Applied Science

School of Arts and Sciences

Department of Chemistry, Physics, and Engineering

Catalog Year: 2021-2023

General Education Requirements (27 hours)	
Required Courses (27 hours)	
ENGL 1113 English Composition I ENGL 1213 English Composition II PS 1113 American Federal Government HIST 1483 U.S. History To 1865 OR HIST 1493 U.S. History Since 1865 MATH 2215 Calculus and Analytic Geometry CHEM 1361/1364 General Chemistry I/Lab PHYS 2015/L Physics I for Science and Engineering Majors	
University Requirements	
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (ENGR 1412)
Major Requirements (23-26 hours)	
Required Core Courses (12 hours)	
ENGR 1411 Introduction to Engineering (FA) ENGR 1412 Engineering Design and CAD (FA) ENGR 2113 Statics (SP) ENGR 2223 Fluid Mechanics (FA) ENGR 2723 Electrical Circuits (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	
Option (10-14 hours)	
Mechanical Engineering Option (11 hours) ENGR 2002 Professional Development in Engineering ENGR 2213 Thermodynamics ENGR 2533 Dynamics PHYS 2213 Selected Topics in General Physics or Higher* Electrical Engineering Option (13 hours) CS 1314/L Computer Science I/Lab ENGR 2002 Professional Development in Engineering ENGR 2314 Intro to Digital Design ENGR 2713 Digital Signals and Processing Civil Engineering Option (10 hours) CHEM 1471/1474 General Chemistry II/Lab ENGR 2002 Professional Development in Engineering ENGR 2153 Mechanics of Materials	Environmental Engineering Option (14 hours) CHEM 1471/1474 General Chemistry II/Lab CHEM XXX4 Above Freshman Chemistry** ENGR 2002 Professional Development in Engineering ENGR 2153 Mechanics of Materials Industrial Engineering Option (12 hours) CS 1314/L Computer Science I/Lab ENGR 2002 Professional Development in Engineering ENGR 2213 Thermodynamics ENGR 2533 Dynamics *PHYS 3003 & 3011 strongly encouraged. **CHEM 3314 strongly encouraged.
Additional Requirements (17 hours)	
MATH 2235 Calculus and Analytic Geometry II MATH 2244 Calculus and Analytic Geometry III MATH 2613 Foundations of Mathematics or Higher*** PHYS 2025/L Physics II for Science and Engineering Majors ***MATH 3253 strongly encouraged.	
General Elective (To Complete 68-71 hours)	
Graduation Requirements	
Department Requirements Minimum 68 Total Credit Hours Minimum 15 Credit Hours in Residence at Cameron Retention GPA 2.0 Cameron GPA 2.0 Complete Graduation Application Online	

**Degree Requirements: Chemistry (340)-Bachelor of Science**

School of Arts and Sciences

Department of Chemistry, Physics, and Engineering

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 2215	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science: CHEM 1361/1364 *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (CHEM 1361)	Capstone Experience (CHEM 4541)
Major Requirements (56-66 hours)		
Required Core Courses (25 hours)	Option (31-41 hours)	
CHEM 1361/1364 General Chemistry Lab I (FA, SP) CHEM 1471/1474 General Chemistry Lab II (FA, SP) CHEM 2541 Introduction to Chemical Literature (FA) CHEM 3113 Fund of Analytical Chemistry (FA) CHEM 3232 Quantitative Analysis Lab (FA) CHEM 3314/L Organic Chemistry I /Lab (FA, SP) CHEM 3324/L Organic Chemistry II/Lab (FA, SP) CHEM 4541 Chemistry Capstone (SP) *Students must maintain an overall 2.0 GPA for all Major courses. A minimum of 50 total hours of CHEM-prefix courses are required for the degree. FA=Fall; SP=Spring; SU=Summer	Majors must select from the following options: ACS Certified Chemistry Degree Major-Minor Chemistry Degree with Chosen Minor Health Profession Chemistry Degree Major-Minor (See next page for course list)	
Additional Requirements (10 hours)		
PHYS 1115 Physics I OR 2015 Physics I for Sci & Engineering Majors (preferred) PHYS 1215 Physics II OR PHYS 2025 Physics II for Sci & Engineering Majors (preferred)		
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

Degree Requirements: Chemistry (340)-Bachelor of Science (Cont'd)**Option (31-41 hours)****ACS Certified Chemistry Degree Major-Minor (41 hours)****Required Courses (41 hours)**

CHEM 4025/L Instrumental Methods of Analysis/Lab
 CHEM 4334 Advanced Inorganic Chemistry
 CHEM 4351 Physical Chemistry I Lab
 CHEM 4353 Physical Chemistry I
 CHEM 4361 Physical Chemistry II Lab
 CHEM 4363 Physical Chemistry II
 CHEM 4401 Biochemistry I Lab
 CHEM 4403 Biochemistry I
 CHEM 4413 Biochemistry II
 CHEM 4491-3 Special Problems in Chemistry** (3 hrs max)
 MATH 2235 Calculus & Analytic Geometry II
 MATH 2244 Calculus & Analytic Geometry III
 MATH 3253 Differential Equations
 MATH 4433 Matrix Alg (preferred) **OR** MATH 2613 Fnd of Math

***Must take a min of 2 cr hrs of Special Problems in Research.*

Chemistry Degree with Chosen Minor (31 hours)**Required Courses (8 hours)**

CHEM 4351 Physical Chemistry I Lab
 CHEM 4353 Physical Chemistry I
 CHEM 4401 Biochemistry I Lab
 CHEM 4403 Biochemistry I

Required Upper Division Analytical Elective (3-5 hours)

CHEM 3334/L Chemistry of Water & Wastewater/Lab **OR**
 CHEM 3343/L Org Analysis/Lab **OR** CHEM 4025/L Inst Meth of Analysis/Lab

Electives (2-4 hours)

CHEM 2441 Working Safely with Chemicals
 CHEM 3334/L Chemistry of Water & Wastewater/Lab
 CHEM 3343/L Organic Analysis/Lab
 CHEM 4025/L Instrumental Methods of Analysis/Lab
 CHEM 4332 Adv Inorganic Chemistry Lab
 CHEM 4334 Advanced Inorganic Chemistry
 CHEM 4361 Physical Chemistry II Lab
 CHEM 4363 Physical Chemistry II
 CHEM 4411 Biochemistry II Lab
 CHEM 4413 Biochemistry II
 CHEM 4481-3 Adv Topics in Chemistry
 CHEM 4491-3 Special Problems in Chemistry** (3 hrs max)

***Only 3 hours of CHEM 4491-3 may be counted toward elective hours for this option*

Minor Requirements (18 hours)**Health Profession Chemistry Degree Major-Minor (40 hours)****Required Courses (23 hours)**

CHEM 4401 Biochemistry I Lab
 CHEM 4403 Biochemistry I
 CHEM 4411 Biochemistry II Lab
 CHEM 4413 Biochemistry I
 BIOL 1364 Principles of Biology I
 BIOL 1474 Principles of Biology II
 BIOL 2124 Microbiology
 IT 1013 Intro to Computer Information Systems

Guided Electives (17 hours)

Must select at least one lower division course from following:

AGRC 1124 Intro to Animal Science **OR** BIOL 2034 Human Anatomy **OR** BIOL 2134 Human Physiology **OR** BIOL 2154 Zoology

Substitutions can be made for other professional health programs.

AGRC 1124 Intro to Animal Science
 ANIM 3653 Applied Nutrition
 BIOL 2034 Human Anatomy
 BIOL 2134 Human Physiology
 BIOL 2154 Zoology
 BIOL 3014 Principles of Genetics
 BIOL 3093 Immunology
 BIOL 3174 Molecular Cell Biology
 BIOL 4004 Physiology
 CHEM 3334/L Chemistry of Water & Wastewater/Lab
 CHEM 3343/L Organic Analysis/Lab
 CHEM 4025/L Instrumental Methods of Analysis/Lab
 CHEM 4332 Adv Inorganic Chemistry Lab
 CHEM 4334 Advanced Inorganic Chemistry
 CHEM 4351 Physical Chemistry Lab I
 CHEM 4353 Physical Chemistry I
 CHEM 4361 Physical Chemistry Lab II
 CHEM 4363 Physical Chemistry II
 CHEM 4481-3 Adv Topics in Chemistry
 CHEM 4491-3 Special Problems in Chemistry** (3 hrs. max)
 STAT 2013 Intro Probability & Statistics I

***Only 3 hours of CHEM 4491-3 may be counted toward elective hours for this option.*

**Degree Requirements: Physics (385)-Bachelor of Science**

School of Arts and Sciences

Department of Chemistry, Physics, and Engineering

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 2215	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science: CHEM 1361/1364 *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (PHYS 3011)	Capstone Experience (PHYS 4541)
Major Requirements (40 hours)		
Required Courses (32 hours)	Other Electives (8 hours)	
PHYS 1115/L Physics I (FA) OR PHYS 2015/L Physics I for Science/Engineering Majors (SP) PHYS 1215/L Physics II (SP) OR PHYS 2025/L Physics II for Science/Engineering Majors(FA) PHYS 2541 Intro to Physics Literature (FA) PHYS 3003 Modern Physics (SP) PHYS 3011 Modern Physics Lab (SP) PHYS 3043 Intro to Quantum Mechanics (Even SP) PHYS 3303 Classical Mechanics (Even FA) PHYS 3403 Thermal Physics (Odd FA) PHYS 4113 Electricity and Magnetism (Odd SP) PHYS 4401 Optics Lab (FA) PHYS 4403 Light and Optics (FA) PHYS 4541 Physics Capstone (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	CHEM 4353 Physical Chemistry I CHEM 4363 Physical Chemistry II ENGR 2213 Thermodynamics ENGR 2223 Fluid Mechanics ENGR 2533 Dynamics ENGR 2713 Digital Signals and Filtering ENGR 2723 ElectricalCircuits PHYS 3031 Electrical Measurements and Electronics Lab PHYS 3024 Electrical Measurements and Electronics PHYS 4243 Solid State Physics PHYS 4481-3 Advanced Topics in Physics PHYS 4491-3 Special Problems NOTE: Students must maintain an overall 2.0 GPA for all Major Requirements.	
Additional Requirements (21 hours)		
CHEM 1471/1474 General Chemistry II and Lab CS 1314/L Computer Science I and Lab (or similar) MATH 2235 Calculus & Analytic Geometry II MATH 2244 Calculus & Analytic Geometry III MATH 3253 Differential Equations Depending upon high school background some students may also need: MATH 0013, 0103, 0213 and/or 0115, MATH 1513, MATH 1613 as prerequisites. Some of these courses may be used to satisfy general education requirements.		
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 55 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

DEPARTMENT OF COMMUNICATION, ENGLISH, AND FOREIGN LANGUAGES**FACULTY****CHAIR**–Christopher Keller, Professor**PROFESSORS**–W. Carney, M. Jenkins, M. Kingsley, Y. Liu, J. Morris, J. Walton, V. Underwood**ASSOCIATE PROFESSORS**–J.A. Gonzalez, J. Heflin, J. Hodgson, S. Tyrrell, Y. Zhao**ASSISTANT PROFESSORS**–D. Bublitz, L. Chaffins, C. Schneider**INSTRUCTORS**–D. Clopton, F. Godwin, M. Hamilton, K. Stringer**MISSION STATEMENT**

The Department of Communication, English, and Foreign Languages supports Cameron University's mission of offering educational opportunities for a diverse student body. The program strives to develop students' intellectual capacities, prepares students for entry into graduate school and individual discipline-related professions, and plays a role in general education. The department faculty value free expression of ideas both oral and written, critical thought, and civil discourse.

PROGRAMS OF STUDY

Degrees & Majors: A.A. Strategic Communication
 B.A. English
 B.A. English Education
 B.A. International Languages
 B.A. Journalism and Media
 Production
 B.A. Strategic Communication

COURSE DESCRIPTIONS

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Albanian \(ALBN\)](#), [Arabic \(ARBC\)](#), [Chinese \(CHNS\)](#), [Classics \(CLSC\)](#), [Comanche Language \(CMCH\)](#), [Communication \(COMM\)](#), [Catalan \(CTLN\)](#), [Dari \(DARI\)](#), [Dutch \(DTCH\)](#), [English \(ENGL\)](#), [French \(FREN\)](#), [German \(GERM\)](#), [Italian \(ITAL\)](#), [Journalism \(JOUR\)](#), [Journalism and Media Production \(JRMP\)](#), [Language \(LANG\)](#), [Latin \(LATN\)](#), [Linguistics \(LING\)](#), [Public Relations \(PBRL\)](#), [Pashto \(PHTO\)](#), [Polish \(PLSH\)](#), [Portuguese \(PORT\)](#), [Persian \(Farsi\)\(PRSN\)](#), [Professional Writing \(PRWR\)](#), [Romanian \(ROMN\)](#), [Radio/Television \(RTV\)](#), [Russian \(RUSN\)](#), [Somali \(SMLI\)](#), [Spanish \(SPAN\)](#), [Swahili \(SWLI\)](#), and [Turkish \(TURK\)](#).

GENERAL INFORMATION

The Department of Communication, English and Foreign Languages supports Cameron University's mission by providing student-centered courses designed by dedicated faculty members who have extensive knowledge and experience in their fields and a deep commitment to teaching, scholarship, and service. The Department prides itself on exposing students to an array of studies in the fields of communication, journalism, language, literature, media, and writing which will prepare them to contribute to communities at home and abroad by fostering cultural awareness; developing individual critical, analytical, and creative capacities; and encouraging habits of the mind that will facilitate success in rapidly changing academic and professional worlds.

STUDENT ORGANIZATIONS

Lambda Pi Eta–Lambda Pi Eta (LPH) is the National Communication Association's official honor society at Cameron University. Alpha Psi is the CU Lambda Pi Eta chapter.

Sigma Tau Delta, English Honor Society–Beta Omicron is the CU Chapter of Sigma Tau Delta, the national English Honor Society.

Society of Professional Journalists–The Society of Professional Journalists is the nation's most broad-based journalism organization, dedicated to encouraging the free practice of journalism and stimulating high standards of ethical behavior.

Phi Sigma Iota-Foreign Languages Honor Society–Delta Rho is the CU Chapter of Phi Sigma Iota. Phi Sigma Iota recognizes outstanding accomplishment in the study or teaching of any of the academic fields related to foreign language, literature, or culture. Phi Sigma Iota is the highest academic honor in the field of foreign languages.


Degree Requirements: Strategic Communication (541)-Associate in Arts

School of Arts and Sciences

Department of Communication, English, and Foreign Languages

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (COMM 2901)	
Major Requirements (22 hours)		
Required Courses (22 hours)		
COMM 2213 Professional Speaking (SP) COMM 2393 Interpersonal Communication (FA) COMM 2901 Strategic Communication Capstone (FA, SP) JRMP 1113 Intro to Mass Communication (FA, SP) JRMP 1213 Visual Media Production (FA, SP) JRMP 1313 Audio Video Production (FA, SP) JRMP 2513 Writing for Mass Media (FA, SP) PBRL 2113 Introduction to Public Relations (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>		
General Electives (To Complete 66 hours)		
Graduation Requirements		
Department Requirements Minimum 66 Total Credit Hours Minimum 15 Credit Hours in Residence at Cameron Minimum 37 Liberal Arts and Science Credit Hours Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online		


Degree Requirements: English (120)-Bachelor of Arts

School of Arts and Sciences

Department of Communication, English, and Foreign Languages

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours)		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	Capstone Experience (ENGL 4993)
Major Requirement (45 hours)		
Required Core Course (21 hours)		
PRWR 2013 Intro to Creative Writing (SP) ENGL 3113 Shakespeare (SP) ENGL 3003 Intro to Literary Studies (FA) ENGL 3303 Advanced Composition (SP) OR PRWR 3303 ENGL 3023 Surv Am Lit-1865 (FA) OR ENGL 3033 Surv Am. Creative Writing–Nonfiction (SP) Lit Since 1865 (SP) OR ENGL 3043 Surv Engl Lit-1800 ENGL 3813 Literary Theory (FA) (FA) OR ENGL 3053 Surv Engl Lit Since 1800 (SP) OR ENGL 4993 English Capstone (FA) ENGL 3063 Surv World Lit Through Renais (FA) OR ENGL <i>FA=Fall; SP=Spring; SU=Summer</i> 3073 Surv World Lit Since Renais (SP)		
Required Option (24 hours)		
Creative Writing Option <i>Required Courses (15 hours)</i> ENGL 2333 Intro to Technical Writing PRWR 3003 Tech of Fiction OR PRWR 3013 Tech of Poetry PRWR 3103 Creat Writ–Short Story OR PRWR 3203 Creat Writ–Poetry OR PRWR 3403 Creat Writ–Novel PRWR 3991-3 Writing Workshop PRWR 4961-3 Directed Writing <i>Electives (9 hours)</i> (No more than 6 hours of 1000 or 2000 level courses)	Literature Option <i>Survey Courses (6 hours)</i> ENGL 3023 Survey of American Lit to 1865 ENGL 3033 Survey of American Lit Since 1865 ENGL 3043 Survey of English Lit to 1800 ENGL 3053 Survey of English Lit Since 1800 ENGL 3063 Survey of World Lit Through The Renaissance ENGL 3073 Survey of World Lit Since The Renaissance <i>Other required courses (9 hours)</i> ENGL 4023 Studies in Genre ENGL 4133 Studies in Am Lit Hist OR ENGL 4143 Studies in Brit Lit Hist OR ENGL 4153 Studies in World Lit ENGL 4613 Engl Linq OR ENGL 4623 Adv Grammar & Usage OR ENGL 4633 Rhetoric Theory & Appl <i>Electives (9 hours)</i> (No more than 6 hours of 1000 or 2000 level courses)	
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	


Degree Requirements: English Education (125)-Bachelor of Arts

School of Arts and Sciences

Department of Communication, English, and Foreign Languages

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	PSY 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours): HIST 2113 or 2223 or PHIL 1113 Aesthetics (3 hours): ART 1013, 2613, 2623, THTR 1103, FNAR 1013, MUSC 1013, 1023, 1033, or 1413 *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (EDUC 3673)	Capstone Experience (ENGL 4773)
Major Requirements (74 hours)		
Required Core Courses (41 hours)	Required Education Courses (33 hours)	
ENGL 3003 Intro to Literary Studies (FA) ENGL 3023 Survey of American Literature to 1865 (FA) ENGL 3033 Survey of American Literature Since 1865 (SP) ENGL 3043 Survey of English Literature to 1800 (FA) ENGL 3053 Survey of English Literature Since 1800 (SP) ENGL 3063 Survey of World Lit Through Renaissance (FA) ENGL 3073 Survey of World Lit Since Renaissance (SP) ENGL 3113 Shakespeare (SP) ENGL 3303 Advanced Composition (SP) ENGL 3663 Teaching Reading in Secondary Schools (FA) ENGL 4613 English Linguistics (FA) ENGL 4623 Advanced Grammar & Usage (SP) ENGL 4773 Teaching of English (FA) English Electives (2 hours) (FA, SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	EDUC 1800 Educ Introductory Seminar EDUC 3003 Introduction to Teaching EDUC 3612 Classroom Management* EDUC 3673 Media & Technology in Education EDUC 3733 Developmental Psychology EDUC 3753 Educational Psychology(R) EDUC 4313 Practicum in Assessment & Instruction(R) EDUC 4653 Classroom Assessment(R) EDUC 4935 Clinical Exper in Teaching I*(R) EDUC 4945 Clinical Exper in Teaching II*(R) SPED 3103 The Exceptional Child *Should be taken in professional semester. (R)Restricted to students admitted to Teacher Education NOTE: A grade of "C" or better is required for all Required Core & Education Courses.	
General Electives (To Complete 124 hours)		
Graduation Requirements	Teacher Education Requirements	
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 80 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online Foreign Language elective or Successful Proficiency Test	Grade of "C" or better in ENGL 1113, 1213, COMM 1113, MATH 1413 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities. Grade of "S" in EDUC 1800. Concurrent enrollment OR grade of "C" or better in EDUC 3003, 3733, & Science. Passing scores on Nelson Denny reading test and OGET. Maintain a GPA of 2.5 at all times. Passing score on EDUC 3003 lesson Requirements rubric. Three positive recommendations. Satisfactory completion of entry interview.	



Degree Requirements: International Languages (185)-Bachelor of Arts

School of Arts and Sciences

Department of Communication, English, and Foreign Languages

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713 or STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, any from the following: PE 1--1, 2--1, 2--2 *Requirement waived for some students
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (IT 1013, MIS 2113)	Capstone Experience (LING 4113)
Major Requirements* (45 hours)		
Primary Language (24 hours)	Secondary Language (12 hours)	
Arabic (ARBC) OR French (FREN) OR German (GERM) OR Latin (LATN) OR Spanish (SPAN) (FA, SP)	Arabic (ARBC) OR Chinese (CHNS) OR French (FREN) OR German (GERM) OR Italian (ITAL) OR Latin (LATN) OR Russian (RUSN) OR Spanish (SPAN) (FA, SP)	
Language Electives (6 hours)	Linguistics (3 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 (FA, SP)	LING 4113 General Linguistics (FA)	
*21 hours must be Upper Division. <i>FA=Fall; SP=Spring; SU=Summer</i>		
Minor Requirements (18 hours)		
International Languages majors are strongly urged to consider English, Geography, Political Science, Economics, Marketing, or Management as minors. A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	


Degree Requirements: Journalism and Media Production (141)-Bachelor of Arts

School of Arts and Sciences

Department of Communication, English, and Foreign Languages

Catalog Year: 2021-2023

General Education Requirements (44-46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (JRMP 1113)	Capstone Experience (JRMP 4911)
Major Requirements (40 hours)		
Required Core Courses (22 hours)		
JRMP 1113 Introduction to Mass Media (FA, SP) JRMP 1213 Visual Media Production (FA, SP) JRMP 1313 Audio and Visual Production (FA, SP) JRMP 2333/L TV Studio Production & Lab (SP) JRMP 2513 Writing for Mass Media (FA) JRMP 3613 Media Literacy (FA) JRMP 3811-2 Media Practicum (3 hours) (FA, SP) COMM 4901 Communication Capstone**(SP) <i>FA=Fall; SP=Spring; SU=Summer</i>		
**All Journalism and Media Production majors are required to keep a portfolio of their work. (See Advisor for details.)		
JRMP Elective Courses (18 hours)		
18 credit hours of any combination of COMM, JRMP, or PBRL courses		
Minor Requirements (18 hours)		
Students may choose another area of concentration for a minor or may choose a minor in another discipline. A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	



Degree Requirements: Strategic Communication (140)-Bachelor of Arts

School of Arts and Sciences

Department of Communication, English, and Foreign Languages

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1413, 1463, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (JOUR 2113)	Capstone Experience (COMM 4901)
Major Requirements (40 hours)		
Required Core Courses (22 hours)	Concentration (18 hours)	
COMM 2213 Professional Speaking (SP) COMM 2393 Interpersonal Communication (SP) COMM 2593 Communication Research (FA) COMM 4673 Corporate & Organizational Comm (SP) COMM 4901 Communication Capstone** (FA, SP) JRMP 1113 Introduction to Mass Media (FA, SP) JRMP 3613 Media Literacy (FA Odd) PBRL 2113 Introduction to Public Relations (SP) **All communication majors are required to keep a portfolio of their work. (See Advisor for details.) FA=Fall; SP=Spring; SU=Summer	Communication Studies Concentration COMM 2313 Small Group Communication COMM 3633 Persuasion COMM 4313 Intercultural Communication 9 hours chosen from any COMM, JRMP, PBRL courses Public Relations Concentration JRMP 1213 Visual Media Production JRMP 1313 Audio and Visual Production JRMP 2513 Writing for Mass Media PBRL 3213 Public Relations Writing & Production PBRL 3323 Strategic Campaign Communication PBRL 4823 Case Studies in Public Relations	
Minor Requirements (18 hours)		
Students may choose another area of concentration for a minor or may choose a minor in another discipline. A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 80 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	

DEPARTMENT OF MATHEMATICAL SCIENCES**FACULTY****CHAIR**–Vacant**PROFESSORS**–I. Argyros, J. McArthur, K. Oty**ASSOCIATE PROFESSORS**–J. Dover, G. Herring, H. Li**ASSISTANT PROFESSORS**–J. Joshi**INSTRUCTORS**–S. Christensen, L. Kerns, C. Sauer, J. Streck, P. Wyatt**MISSION STATEMENT**

The mission of the Mathematical Sciences Department at Cameron University is to provide quality educational experiences in all mathematics and statistics courses offered through the department. The department offers courses that will provide all students, both majors and non-majors, with the knowledge and skills needed for life-long learning, as well as an appreciation for the beauty and power of mathematics. Mathematics majors will acquire a broad and solid base in mathematics, enabling them to continue their education in graduate school or to pursue careers in teaching, industry, or government.

PROGRAMS OF STUDY**Degrees & Majors:** B.A. Mathematics**COURSE DESCRIPTIONS**

Course descriptions for the following course prefixes offered in the department are located at the end of the catalog: [Mathematics \(MATH\)](#) and [Statistics \(STAT\)](#).

GENERAL INFORMATION

Mathematics and statistics are fundamental to a wide variety of fields and careers. Our major in mathematics is broad based, allowing students to gain fundamental knowledge and skills in mathematics and statistics. We offer a variety of electives for students to customize their studies to their interests. 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.

STUDENT ORGANIZATIONS

MathCom–MathCom is a Cameron University Student Organization in Mathematics and Computer Science. It is open to everyone. MathCom assists in developing skills and leadership through peer, student, and faculty support. **Pi Mu Epsilon (Mathematics)**–Pi Mu Epsilon is a non-secret organization whose purpose is the promotion of scholarly activity in mathematics among students in academic institutions, and among staff of qualified nonacademic institutions.


Degree Requirements: Mathematics (150)-Bachelor of Arts

School of Arts and Sciences

Department of Mathematical Sciences

Catalog Year: 2021-2023

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3-5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1513, 1613, 2215, 2713	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8-9 hours)	Humanities* (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4-5 hours) *One course must be a lab science.	Diversity (3 hours) Aesthetics (3 hours) *One course taken from each category.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students.
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
Gen ed electives must be selected from the list of approved general education courses, (MSL- and PE-prefixes excluded).		
University Requirements		
UNIV 1001 or 1113 (1-3 hours)	Computer Literacy (MATH 1001, 3001)	Capstone Experience (MATH 4782 & 4792)
Major Requirements (42 hours)		
Required Core Courses (33 hours)	Required Tech Courses (3 hours)	Electives (6 hours)
MATH 2215 Calc/Anlyt Geom I (FA, SP) MATH 2235 Calc/Anlyt Geom II (FA, SP) MATH 2244 Calc/Anlytc Geom III (FA) MATH 2613 Found of Mathematics (FA) MATH 3013 Intro Linear Alg (Odd FA) MATH 3213 Abstract Algebra (Even SP) MATH 3253 Differential Equations (SP) MATH 4483 Intro Real Analysis (Odd SP) MATH 4782 Math Capstone I (FA) MATH 4792 Math Capstone II (SP) <i>FA=Fall; SP=Spring; SU=Summer</i>	MATH 1001 Tech for Math (1 hour) MATH 3001 Tech for Adv Math (2 hours)	MATH 3302 History of Mathematics MATH 3333 College Geometry MATH 3413 Discrete Math Structures MATH 4113 Intro Operations Research MATH 4423 Number Theory MATH 4471-3 Seminar in Mathematics MATH 4491-3 Indep Study in Math STAT 3113 Mathematical Statistics I STAT 3123 Mathematical Statistics II
Minor Requirements (18 hours)		
A full list of available minors is available on the CU website.		
General Electives (To Complete 124 hours)		
Graduation Requirements		
Department Requirements	Minimum 60 Credit Hours at a 4-Year Institution	
Minimum 124 Total Credit Hours	Minimum ½ of Major Upper Division Hours Completed at CU	
Minimum 40 Upper Division Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU	
Minimum 80 Liberal Arts & Science Credit Hours	Retention GPA 2.0; Cameron GPA 2.0	
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application Online	

DEPARTMENT OF MILITARY SCIENCE**FACULTY****CHAIR**–LTC Peter Salfeety, Professor**ASSISTANT PROFESSORS**–MAJ J. Bost**INSTRUCTORS**–CPT Garin Gray, MSG Henry Pettigrew**MISSION STATEMENT**

Partners with Cameron University and Fort Sill to recruit, educate, develop, and inspire Senior ROTC Cadets in order to commission officers of character for the Total Army who are critical thinkers and ready to lead in complex operating environments. Partners with JROTC programs in Southwest Oklahoma and Northern Texas to develop citizens of character.

PROGRAMS OF STUDY**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, 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 Basic Camp, MSL 2002-8, Leader's Training Course. Students receive a subsistence allowance while attending Basic Camp (MSL 2002-8).

MS I (Freshman Year)

Course	Hours
MSL 1011 Foundations of Officership Lab.....	1
MSL 1012 Foundations of Officership	2
MSL 1021 Basic Leadership Lab	1
MSL 1022 Basic Leadership	2

MS II (Sophomore Year)

Course	Hours
MSL 2011 Individual Leadership Lab	1
MSL 2012 Individual Leadership Studies	2
MSL 2021 Leadership and Teamwork Lab.....	1
MSL 2022 Leadership and Teamwork.....	2
MSL 2002-8 Ldr's Training Course (Basic Camp)(SU). 2-8	

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 two 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

The Advanced Course, consists of MSL 3013, 3023, 4004, 4013 and 4023. Cadets normally attend Advanced Camp (MSL 4004 Cadet Leader Course) 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 Advanced Camp, 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.

MS III (Junior Year)

Course	Hours
MSL 3011 Leadership and Problem Solving Lab.....	1
MSL 3013 Leadership and Problem Solving	3
MSL 3021 Leadership and Ethics Lab	1
MSL 3023 Leadership and Ethics	3

MS IV (Senior Year)

Course	Hours
MSL 4004 Cadet Leader Course (Advanced Camp) (SU). 4	
MSL 4011 Leadership Challenges/Goal Setting Lab.....	1
MSL 4013 Leadership Challenges and Goal Setting	3
MSL 4021 Officership Lab	1
MSL 4023 Officership	3

Completion of the Basic Course, Advanced Camp, 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.

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. Enrollment 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.

Physical Fitness

Cameron University students requiring elective Physical Education credit may elect to take the Physical Training Military Science Level (MSL) 1112 for 2 credit hours. Taking this class does not require a student to take any other Military Science class. Class is typically four mornings a week from 0600-0700. All ROTC Cadets will take MSL 1110 or 1112 each semester that they are enrolled in the program.

COURSE DESCRIPTIONS

Course descriptions for the following course prefix offered in the department are located at the end of the catalog: [Military Science and Leadership \(MSL\)](#).

GENERAL INFORMATION

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.

STUDENT ORGANIZATION

Military Science Club—The Military Science Club is an organization dedicated to bringing both civilian students and military students together to discuss the military and the science that accompanies it. Activities include academic trips (pre-COVID-19), volunteering opportunities, scholarships, as well as leadership prospects. Membership within the Military Science Club does not require enrollment in a military science class of any kind. The club encourages leadership, teamwork,

hard work, camaraderie, and honoring all those who served.

Course Descriptions

Course Subject Key

ACCT	Accounting, Department of Business	FREN	French, Department of Communication, English, and Foreign Languages
AGRC	Agriculture, Department of Agriculture, Biology and Health Sciences	GEOG	Geography, Department of Social Sciences
AGRN	Agronomy, Department of Agriculture, Biology and Health Sciences	GERM	German, Department of Communication, English, and Foreign Languages
AHS	Allied Health Sciences, Department of Agriculture, Biology and Health Sciences	HIST	History, Department of Social Sciences
ALBN	Albanian, Department of Communication, English, and Foreign Languages	IAS	Cyber Security and Information Assurance, Department of Computing and Technology
ANIM	Animal Science, Department of Agriculture, Biology and Health Sciences	IT	Information Technology, Department of Computing and Technology
ARBC	Arabic, Department of Communication, English, and Foreign Languages	ITAL	Italian, Department of Communication, English, and Foreign Languages
ART	Art, Department of Art, Music, and Theatre Arts	JOUR	Journalism, Department of Communication, English, and Foreign Languages
ASTR	Astronomy, Department of Chemistry, Physics, and Engineering	JRMP	Journalism and Media Production, Department of Communication, English, and Foreign Languages
BIOL	Biology, Department of Agriculture, Biology and Health Sciences	LANG	Language, Department of Communication, English, and Foreign Languages
BUS	Business, Department of Business	LATN	Latin, Department of Communication, English, and Foreign Languages
CAD	Computer Aided Drafting, Department of Computing and Technology	LIBS	Library Science, Department of Education
CD	Child Development, Department of Education	LING	Linguistics, Department of Communication, English, and Foreign Languages
CHEM	Chemistry, Department of Chemistry, Physics, and Engineering	MATH	Mathematics, Department of Mathematical Sciences
CHNS	Chinese, Department of Communication, English, and Foreign Languages	MGMT	Management, Department of Business
CIS	Computer Information Systems, Department of Computing and Technology	MIS	Management Information Systems, Department of Computing and Technology
CI	Criminal Justice, Department of Social Sciences	MKTG	Marketing, Department of Business
CLSC	Classics, Department of Communication, English, and Foreign Languages	MLS	Medical Laboratory Science, Department of Agriculture, Biology and Health Sciences
CMCH	Comanche Language, Department of Communication, English, and Foreign Languages	MM	Multimedia Design, Department of Computing and Technology
COMM	Communication, Department of Communication, English, and Foreign Languages	MSL	Military Science and Leadership, Department of Military Science
CS	Computer Science, Department of Computing and Technology	MUSC	Music, Department of Art, Music, and Theatre Arts
CTLN	Catalan, Department of Communication, English, and Foreign Languages	ORGL	Organizational Leadership, Department of Business
DARI	Dari, Department of Communication, English, and Foreign Languages	PBRL	Public Relations, Department of Communication, English, and Foreign Languages
DTCH	Dutch, Department of Communication, English, and Foreign Languages	PE	Physical Education Activity, Department of Sports and Exercise Science
ECE	Early Childhood Education, Department of Education	PHIL	Philosophy, Department of Social Sciences
ECON	Economics, Department of Business	PHTO	Pashto, Department of Communication, English, and Foreign Languages
EDUC	Education, Department of Education	PHYS	Physics, Department of Chemistry, Physics, and Engineering
ENGL	English, Department of Communication, English, and Foreign Languages	PLSH	Polish, Department of Communication, English, and Foreign Languages
ENGR	Engineering, Department of Chemistry, Physics, and Engineering	PORT	Portuguese, Department of Communication, English, and Foreign Languages
ENSC	Environmental Science, Department of Agriculture, Biology and Health Sciences	PRSN	Persian (Farsi), Department of Communication, English, and Foreign Languages
ESCI	Earth Science, Department of Agriculture, Biology and Health Sciences	PRWR	Professional Writing, Department of Communication, English, and Foreign Languages
FAMS	Family Science, Department of Psychology	PS	Political Science, Department of Social Sciences
FIN	Finance, Department of Business	PSCI	Physical Science, Department of Chemistry, Physics, and Engineering
FNAR	Fine Arts, Department of Art, Music, and Theatre Arts	PSY	Psychology, Department of Psychology
		RAD	Radiologic Technology, Department of Agriculture, Biology and Health Sciences

READ	Reading, Department of Education
RESP	Respiratory Care, Department of Agriculture, Biology and Health Sciences
ROMN	Romanian, Department of Communication, English, and Foreign Languages
RTV	Radio/Television, Department of Communication, English, and Foreign Languages
RUSN	Russian, Department of Communication, English, and Foreign Languages
SES	Sports and Exercise Science, Department of Sports and Exercise Science
SMLI	Somali, Department of Communication, English, and Foreign Languages
SOCL	Sociology, Department of Social Sciences
SPAN	Spanish, Department of Communication, English, and Foreign Languages
SPED	Special Education, Department of Education
STAT	Statistics, Department of Mathematical Sciences
SWLI	Swahili, Department of Communication, English, and Foreign Languages
TECH	Technology, Department of Computing and Technology
THTR	Theatre Arts, Department of Art, Music, and Theatre Arts
TURK	Turkish, Department of Communication, English, and Foreign Languages
UNIV	Office of Teaching and Learning

ACCOUNTING (ACCT)***Business***

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. (Fall, Spring)

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. (Fall, Spring)

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: ACCT 2023.

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: 12 credit hours in accounting courses and Junior standing.

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.

AGRICULTURE (AGRC)***Agriculture, Biology, and Health Sciences***

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. Corequisite: AGRC 1124L. (Fall)

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. Corequisite: AGRC 1124. (Fall)

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. Corequisite: AGRC 1214L. (Spring)

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. Corequisite: AGRC 1214. (Spring)

2013* INTRODUCTION TO AGRICULTURAL ECONOMICS 3 *credit hours* A study of economic principles as they relate to the national economy, production, marketing and consumption of agricultural products.

Lecture 3 hours. General Education, Economics. (Fall, Spring)

2123 PRINCIPLES OF LIVESTOCK FEEDING 3 credit hours An introductory study of livestock feeding problems. The selection and preparation of feeds for the different classes of livestock. Practical feeding methods, balancing rations for various livestock species. Lecture 3 hours. Prerequisites: AGRC 1124/1124L.

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 CHEM 1364. Corequisite: AGRC 2124L. (Spring)

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 CHEM 1364. Corequisite: AGRC 2124. (Spring)

3001-2 AGRICULTURAL WORKSHOP 1-2 credit hours A course designed to emphasize innovations in the field of Agriculture. Flexible format to include the use of lectures or demonstrations combined with practical applications, field studies, or other forms of experiential learning. May be repeated with a change in course topic up to a maximum of 4 credit hours. Workshop, 1-2 hours. Prerequisite: Completion of General Education Biological Science OR Physical Science requirements.

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 2013.

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 3 hours. Prerequisite: AGRC 2013.

3513 PRINCIPLES OF AGRICULTURAL MANAGEMENT 3 credit hours An introduction to fundamental concepts associated with management of agribusiness firms, including finance, management, marketing and human resources. Special emphasis will be placed on the development of business plans. Computer applications and simulations will be utilized to model performance of agribusiness firms. Prerequisite: AGRC 2013. (Fall)

3613 AGRICULTURAL AND FOOD POLICY 3 credit hours Applications of economic principles to policy analysis related to agricultural and food issues facing the United States and the world. Includes study of the nature, causes, and effects of governmental participation in agriculture, and the interrelationships of the American agricultural and agribusiness sectors with the political and economic

system, public administration, and interest group representation. Prerequisite: AGRC 2013. (Spring)

3813 PRECISION AGRICULTURE 3 credit hours Principles of acquisition and analysis of geographically referenced data for the management of crop and livestock production systems. Topics include: mapping, global positioning systems, geographic information systems, crop modeling, livestock monitoring, applications of technology including fixed wing, single rotor, and multi-rotor drones, and selection of appropriate sensor systems. Field trips are an integral and required part of the course. Lecture 3 hours. Prerequisite: AGRC 1124/1124L or AGRC 1214/1214L or AGRC 2013.

4223 INTEGRATED PEST MANAGEMENT 3 credit hours Management of pests in agricultural situations. Topics include fundamentals of pest management, selection and safe use of herbicides and insecticides, control of weedy species, insect species, rodents, and nuisance wildlife, and regulatory agency considerations. Lecture 3 hours. Prerequisites: AGRC 1124/1124L or AGRC 1214/1214L or AGRC 2013.

4321-3 SPECIAL STUDIES IN AGRICULTURE 1-3 credit hours Independent study based on the review of literature, laboratory problems, or field investigations. Independent study 1-3 hours. Prerequisite: Junior or Senior standing.

4333 AGRICULTURAL FINANCE 3 credit hours An introduction to the planning, analyzing and controlling of business performance in agriculture and on the related financial markets. The topics covered include financial statements, capital structure, capital budgeting, financial markets, and commercial lending for farms and ranches as well as for agribusiness firms. Special emphasis will be placed on liquidity and credit, risk management, financial intermediaries, and outside equity capital. Lecture 3 hours. Prerequisite: AGRC 2013.

4421-3 AGRICULTURAL INTERNSHIP 1-3 credit hours Supervised work experience in a professional setting directly related to a sub-discipline in the field of agriculture. The internship will allow students to encounter practical workplace situations within their major field and gain experience in a business setting. Students may apply up to 3 credit hours of internship credit to a major in agriculture. A minimum of 32 hours of training or work is required per credit hour. Internship 2-6 hours. Prerequisite: Department permission.

4572 AGRICULTURAL CAPSTONE 2 credit hours Required capstone course in the agriculture major. Designed to bring reflection and focus to the whole of the university experience and to encourage students to integrate and synthesize aspects of agriculture with important concepts from related disciplines. Provides resources for careers, professional programs, and graduate school. Includes required program assessment. Capstone/Lecture 2 hours. Prerequisite: Senior standing and departmental permission. (Fall)

AGRONOMY (AGRN)**Agriculture, Biology, and Health Sciences**

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 1214/1214L.

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, 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 2124/2124L. Corequisite: 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 2124/2124L. Corequisite: 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.

4673 GRAIN CROPS 3 credit hours Principles of grain crop production, classification, and improvement. Lecture 3 hours. Prerequisites: AGRC 1214/1214L.

ALBANIAN (ALBN)**Communication, English, and Foreign Languages**

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.

ALLIED HEALTH SCIENCES (AHS)**Agriculture, Biology, and Health Sciences**

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. (Fall, Spring)

ANIMAL SCIENCE (ANIM)**Agriculture, Biology, and Health Sciences**

3103 LIVESTOCK EVALUATION 3 credit hours Instruction in selection, evaluating, fitting, showing, and judging of multiple species of commercial livestock. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 1124/1124L. Corequisite: ANIM 3103L.

3103L LIVESTOCK EVALUATION LAB 0 credit hours LAB: Instruction in selection, evaluating, fitting, showing, and judging of multiple species of commercial livestock. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 1124/1124L. Corequisite: ANIM 3103.

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 1124/1124L. (Fall)

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. Prerequisite: AGRC 1124/1124L.

3653 PRINCIPLES OF ANIMAL NUTRITION 3 credit hours 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 3 hours. Prerequisites: AGRC 1124/1124L.

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: AGRC 1124/1124L. Corequisite: 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: AGRC 1124/1124L. Corequisite: 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: AGRC 1124/1124L. Corequisite: 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 AGRC 1124/1124L. Corequisite: 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: AGRC 1124/1124L. Corequisite: 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: AGRC 1124/1124L. Corequisite: 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: AGRC 1124/1124L.

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 1124/1124L.

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 1124/1124L. Corequisite: 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 1124/1124L. Corequisite: ANIM 4434.

ARABIC (ARBC)

Communication, English, and Foreign Languages

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. (Fall)

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. (Spring)

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. (Fall)

2223* INTERMEDIATE MODERN STANDARD ARABIC II *3 credit hours* Continuation of ARBC 2113. Lecture 3 hours. Prerequisite: ARBC 2113 or the equivalent. (Spring)

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. (Fall)

3223* ADVANCED MODERN STANDARD ARABIC II *3 credit hours* A continuation of ARBC 3113. Lecture 3 hours. Prerequisite: ARBC 3113 or equivalent. (Spring)

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.

ART (ART)

Art, Music, and Theatre Arts

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. (Fall)

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. (Spring)

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. (Fall)

1223 DESIGN II *3 credit hours* Application and analysis of three-dimensional elements and principles of design. Studio 6 hours. (Spring)

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 per week. (Fall)

2243* COLOR *3 credit hours* Exploration and analysis of color. Studio 6 hours. (Fall)

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 per week.

2313 PAINTING *3 credit hours* Painting courses exploring the principles, techniques, media and creative potential of painting. Studio 6 hours.

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. (Fall)

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. (Spring)

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.

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* An introduction to drawing the figure from direct observation. Emphasis on a variety of traditional drawing media and techniques. Studio 6 hours per week. Prerequisite: ART 1113 and ART 1123. (Fall)

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 (primarily Photoshop) 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. Prerequisite: ART 3213.

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. (Spring)

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. Prerequisite: ART 3213.

4323 ADVANCED PAINTING I: TRADITIONAL PAINTING TECHNIQUES *3 credit hours* Students will continue to apply and further refine the traditional oil painting techniques learned in ART 2313. These techniques include imprimatura, grisaille, glazing, direct painting, impasto, and alla prima. Additional emphasis will be placed on composition and individual expression. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4333 ADVANCED PAINTING II: CONTEMPORARY PAINTING TECHNIQUES *3 credit hours* Students will explore and experiment with contemporary oil and/or acrylic painting techniques. This may include creative and inventive use of traditional materials as well as use of nontraditional surfaces, mixed media, collage, and expanded form painting. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4343 ADVANCED PAINTING III: SUBJECT MATTER EXPLORATION *3 credit hours* Students will focus on the creative exploration of personal subject matter using oil and/or acrylic paint. Subject matter may include portraits, the figure, still life, landscape, and interiors. Students will continue to refine their painting techniques in relation to their subject matter. Students will research historical and contemporary genres in painting. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4353 ADVANCED PAINTING IV: STYLE EXPLORATION *3 credit hours* Students will explore a variety of painting styles using oil and/or acrylic paint. Styles may include realism, abstraction, surrealism, and narrative painting. Students will research artists working in a variety of historical and contemporary styles. Emphasis is placed on the union of style with personal subject matter. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4363 ADVANCED PAINTING V: PAINTING THESIS INTRODUCTION *3 credit hours* Students will develop a series of related oil and/or acrylic paintings demonstrating creativity and a personal aesthetic and direction in painting. Emphasis is placed on the development of a unique concept and the application of technique, design, style, and subject matter in relation to concept. Students will also complete in-depth formal and critical analyses of their paintings. Paintings created in this course will be part of the student's senior art exhibition. Required for all BFA majors with a painting concentration. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4373 ADVANCED PAINTING V: PAINTING THESIS CONCLUSION *3 credit hours* Students will continue to develop and refine a series of related paintings as well as an artist statement in preparation for their senior art exhibition. Continued focus is on the development of paintings that demonstrate a unique concept and mature vision enhanced by creative use of subject matter, skilled paint application, and sophisticated design skills. Students will also complete in-depth formal and critical analyses of their paintings. Required for all BFA majors with a painting concentration. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4383 ADVANCED PAINTING: TRADITIONAL WATERCOLOR *3 credit hours* Students will explore the techniques and traditional methods of watercolors on paper. Subject matter will include landscapes, plein air painting, portraits, the figure, still life, and a variety of color mixing charts related to subject. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4393 ADVANCED PAINTING: CONTEMPORARY WATERCOLOR *3 credit hours* Students will focus on experimentation and personal expression of subject matter using watercolor on traditional or nontraditional surfaces. Students will continue to refine their painting techniques in relation to their concept. Studio 6 hours. Prerequisite: ART 2243 and ART 2313.

4423 ADVANCED PRINTMAKING I *3 credit hours* Students will be introduced to various advanced techniques in printmaking methods which will include stone lithography, serigraphy, relief, and monoprints/monotype. Emphasis will be placed on learning and understanding the many techniques of printmaking. Students are required to take this course for a concentration in printmaking. Studio 6 hours. Prerequisite: ART 2413.

4433 ADVANCED PRINTMAKING II: WOODCUT *3 credit hours* Students will focus on the techniques and methods of woodcut. Emphasis will be placed on learning to carve, matrix registration, and applying color to the block while simultaneously developing personal imagery. Students will learn how to create a consistent edition. Studio 6 hours. Prerequisite: ART 2413.

4443 ADVANCED PRINTMAKING III: SERIGRAPHY *3 credit hours* Students will focus on the techniques and methods of screen printing. Emphasis will be placed on how to prepare and print a screen print with equal attention to personal imagery. Students will learn how to create a consistent edition. Studio 6 hours. Prerequisite: ART 2413.

4453 ADVANCED PRINTMAKING IV: MONOPRINT/MONOTYPE *3 credit hours* Students will focus on developing personal imagery using painting and printmaking techniques. Drypoint, collograph, and painting will be utilized in developing one of a kind images and personal imagery. Studio 6 hours. Prerequisite: ART 2413.

4463 ADVANCED PRINTMAKING V: RELIEF LINOCUT *3 credit hours* Students will continue to explore relief printing using a linoleum matrix. Reduction and additive methods will be used to create personal imagery. Students will learn how to create a consistent edition. Studio 6 hours. Prerequisite: ART 2413.

4473 ADVANCED PRINTMAKING VI: LITHOGRAPHY AND RELIEF *3 credit hours* Students will continue to develop and explore the techniques of stone lithography and relief printing. Students will learn how to create a consistent color edition. Studio 6 hours. Prerequisite: ART 2413.

4483 ADVANCED PRINTMAKING VII: LITHOGRAPHY *3 credit hours* Students will focus on the techniques and methods of stone lithography. Emphasis will be placed on learning the chemical etching process and developing personal imagery. Students will learn how to create a consistent edition. Studio 6 hours. Prerequisite: ART 2413.

4523 ADVANCED SCULPTURE I: WELDING, ASSEMBLAGE, CARVING *3 credit hours* Advanced studio course emphasizing safe studio practices and the personal exploration of sculptural forms and materials. Students will learn advanced skills to create sculpture using the techniques of oxy-acetylene welding, arc stick welding, wood-assembly, wood carving, and hand building in clay. Studio 6 hours. Prerequisite: ART 2513.

4533 ADVANCED SCULPTURE II: TIG WELDING AND HAND BUILDING CLAY *3 credit hours* Advanced studio course emphasizing safe studio practices and the personal exploration of sculptural forms and materials. Students will engage in self-directed image making and create personal sculptural expressions for their portfolio. Studio workshop skills using advanced techniques of TIG welding and hand building in clay will be developed. Studio 6 hours. Prerequisite: ART 2513.

4543 ADVANCED SCULPTURE III: SPECIAL PROBLEMS IN WELDING, WOOD, AND CLAY *3 credit hours* Advanced studio course emphasizing safe studio practices and the personal exploration of sculptural forms and materials. Students will engage in special problems in sculpture. Each student will design an original sculpture and construct an advanced portfolio of their work. Studio workshop skills will build upon the advanced techniques of TIG welding, arc welding, plasma arc cutting, and oxy-acetylene welding in addition to further development of their advanced skills in woodworking and clay construction. Studio 6 hours. Prerequisite: ART 2513.

4553 ADVANCED SCULPTURE IV: TIME BASED MEDIA, ASSEMBLAGE, CARVING, CASTING, OR MODELING *3 credit hours* Advanced studio course emphasizing safe studio practices and the personal exploration of sculptural forms and materials. Students will engage in new forms of sculpture. Each student will design original sculpture and construct advanced portfolios of their work using a variety of new materials including time-based media. Studio workshop skills will be stressed in all sculpture media and include works that are carved, assembled, cast, or modeled. Studio 6 hours. Prerequisite: ART 2513.

4563 ADVANCED SCULPTURE V: PUBLIC INSTALLATION SCULPTURE *3 credit hours* Advanced studio course emphasizing safe studio practices and the personal exploration of sculptural forms and materials. Students will engage in new forms of sculpture. Each student will design original sculpture for public display. Studio 6 hours. Prerequisite: ART 2513.

4573 ADVANCED SCULPTURE VI: EXHIBITION DESIGN AND CONSTRUCTION *3 credit hours* Advanced studio course emphasizing safe studio practices and the personal exploration of sculptural forms and materials. Students will engage in new forms of sculpture. Each student will design original sculpture and construct an advanced exhibition of their work. Studio 6 hours. Prerequisite: ART 2513.

4633* HISTORY OF ART SEMINAR: ORIGINS OF MODERN ART *3 credit hours* Advanced Art History course with an emphasis on origins and development of Modern Art. The course content covers the time period of 1870-1910. Lecture 3 hours. Prerequisites: ENGL 1213 and 3 hours of History. (Spring)

4643* HISTORY OF ART SEMINAR: MODERN ART MOVEMENTS *3 credit hours* Advanced Art History course with an emphasis on Modern Art movements and their development. The course content covers the time period of 1910-1940. Lecture 3 hours. Prerequisites: ENGL 1213 and 3 hours of History. (Fall, Even Years)

4663* HISTORY OF ART SEMINAR: ART SINCE 1940 *3 credit hours* Advanced Art History course with an emphasis on art since 1940. The course content covers the time period of 1940-1980. 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* Professional study on setting fees, writing contracts, working with an agent, and other business practices. Final preparation of a professional portfolio culminating in an extensive design project and the design, organization, and production of an exhibition of work. Studio/internship 6 hours. Prerequisites: ART 3213, ART 3743, and ART 4213.

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 chair. Prerequisites: Senior standing in Art and permission of the Chair.

4991 SENIOR ART CAPSTONE AND 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 1 hour. Prerequisite: Senior standing in Art. (Spring)

ASTRONOMY (ASTR)

Chemistry, Physics, and Engineering

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.

BIOLOGY (BIOL)***Agriculture, Biology, and Health Sciences***

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. Corequisite: 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. Corequisite: BIOL 1004. General Education Laboratory Science, Biological Science.

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. Corequisite: 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. Corequisite: 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. Corequisite: 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. Corequisite: 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. Corequisite: BIOL 1364L. General Education Laboratory Science, Biological Science. (Fall, Spring)

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. Corequisite: BIOL 1364. General Education Laboratory Science, Biological Science. (Fall, Spring)

1474* PRINCIPLES OF BIOLOGY II *4 credit hours* A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364/1364L. Corequisite: BIOL 1474L. Will not satisfy general education science requirements. (Fall, Spring)

1474L* PRINCIPLES OF BIOLOGY II LAB *0 credit hours* LAB: A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364/1364L. Corequisite: BIOL 1474. Will not satisfy general education science requirements. (Fall, Spring)

Biological Science courses at the 2000-, 3000-, or 4000-level **may not** be used to fulfill General Education science requirements.

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. (Fall, Spring)

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. Corequisite: BIOL 2034L. Student must be eligible to take MATH 1513 or higher. Will not satisfy general education science requirements. (Fall, Spring)

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. Corequisite: BIOL 2034. Student must be eligible to take MATH 1513 or higher. Will not satisfy general education science requirements. (Fall, Spring)

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 1124/1124L and AGRC 1214/1214L and CHEM 1105/1105L or CHEM 1364/1361, and MATH 1513 or higher. Corequisite: 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 1124/1124L and AGRC 1214/1214L and CHEM 1105/1105L or CHEM 1364/1361, and MATH 1513 or higher. Corequisite: 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 1105/1105L or CHEM 1364/1361, and MATH 1513 or higher, and BIOL 2034/2034L or both BIOL 1364/1364L and BIOL 1474/1474L. Corequisite: BIOL 2134L. Will not satisfy general education science requirements. (Fall, Spring)

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 1105/1105L or CHEM 1364/1361, and MATH 1513 or higher, and BIOL 2034/2034L or both BIOL 1364/1364L and BIOL 1474/1474L. Corequisite: BIOL 2134. Will not satisfy general education science requirements. (Fall, Spring)

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 1474/1474L or AGRC 1124/1124L and AGRC 1214/1214L. Corequisite: BIOL 2144L. Will not satisfy general education science requirements. (Spring)

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 1474/1474L or AGRC 1124/1124L and AGRC 1214/1214L. Corequisite: BIOL 2144. Will not satisfy general education science requirements. (Spring)

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 1474/1474L or AGRC 1124/1124L and AGRC 1214/1214L. Corequisite: BIOL 2154L. Will not satisfy general education science requirements. (Fall)

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 1474/1474L or AGRC 1124/1124L and AGRC 1214/1214L. Corequisite: BIOL 2154. Will not satisfy general education science requirements. (Fall)

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. Will not satisfy general education science requirements.

3014* GENETICS 4 credit hours A general course in the cellular and molecular mechanisms of heredity. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474/1474L or AGRC 1124/1124L and AGRC

1214/1214L. Corequisite: BIOL 3014L. Will not satisfy general education science requirements. (Fall, Spring)

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 1474/1474L or AGRC 1124/1124L and AGRC 1214/1214L. Corequisite: BIOL 3014. Will not satisfy general education science requirements. (Fall, Spring)

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 2144/2144L or BIOL 2154/2154L. Will not satisfy general education science requirements. (Fall)

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 2144/2144L. Corequisite: 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 2144/2144L. Corequisite: 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 2144/2144L or BIOL 2154/2154L. Corequisite: 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 2144/2144L or BIOL 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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; transplanted reactions and hypersensitivities. Lecture 3 hours. Prerequisite: BIOL 3014/3014L. 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 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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 2154/2154L. Corequisite: 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 2034/2034L or BIOL 2154/2154L or BIOL 4004/4004L. Corequisite: 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 2034/2034L or BIOL 2154/2154L. Corequisite: BIOL 3124. Will not satisfy general education science requirements.

3174* MOLECULAR BIOLOGY 4 credit hours Structural and functional organization of prokaryotic and eukaryotic cells at the molecular level. Regulation of transcription and translation, DNA repair mechanisms, and cancer genetics are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014/3014L. Corequisite: BIOL 3174L. Will not satisfy general education science requirements.

3174L* MOLECULAR BIOLOGY LAB 0 credit hours LAB: Structural and functional organization of prokaryotic and eukaryotic cells at the molecular level. Regulation of transcription and translation, DNA repair mechanisms, and cancer genetics are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014/3014L. Corequisite: BIOL 3174. Will not satisfy general education science requirements.

3184* PRINCIPLES OF ANATOMY 4 credit hours This course provides students with an intensive survey of the microscopic and gross anatomy of various human tissues, organs, and organ systems. The course uses a systemic approach, with an emphasis on integrated structure-function relationships at the cell, tissue, and organ level. Includes extensive cadaver dissection. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154/2154L. Corequisite: BIOL 3184L. Will not satisfy general education requirements.

3184L* PRINCIPLES OF ANATOMY LAB 0 credit hours LAB: This course provides students with an intensive survey of the microscopic and gross anatomy of various human tissues, organs, and organ systems. The course uses a systemic approach, with an emphasis on integrated structure-function relationships at the cell, tissue, and organ level. Includes extensive cadaver dissection. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154/2154L. Corequisite: BIOL 3184. Will not satisfy general education requirements.

3194* FUNDAMENTALS OF MICROBIOLOGY 4 credit hours Course content includes cell structure, physiology, and phylogeny of bacteria, archae, and eukaryotic microorganisms; growth, metabolism, genetics, ecological roles, genetic exchange, and introductory immunology. Laboratory includes methods for cultivation, characterization, and identification of microorganisms. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1364/1364L, BIOL 1474/1474L, CHEM 1364/1361, and CHEM 1474/1471. Corequisite: BIOL 3194L. Will not satisfy general education requirements.

3194L* FUNDAMENTALS OF MICROBIOLOGY LAB 0 credit hours LAB: Course content includes cell structure, physiology, and phylogeny of bacteria, archae, and eukaryotic microorganisms; growth, metabolism, genetics, ecological roles, genetic exchange, and introductory immunology. Laboratory includes methods for cultivation, characterization, and identification of

microorganisms. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1364/1364L, BIOL 1474/1474L, CHEM 1364/1361, and CHEM 1474/1471. Corequisite: BIOL 3194L. Will not satisfy general education requirements.

3901 BIOLOGY CAPSTONE I 1 credit hour The first course in a two-semester biology capstone sequence. Includes required program assessment. Lecture 1 hour. Prerequisites: BIOL 1364/1364L and BIOL 1474/1474L, and BIOL 3014/3014L. Will not satisfy general education science requirements. (Fall)

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 1474/1474L and CHEM 3314/3314L. BIOL 2154 is recommended. Corequisite: 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 1474/1474L and CHEM 3314/3314L. BIOL 2154 is recommended. Corequisite: 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 2144/2144L. Corequisite: 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 2144/2144L. Corequisite: 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 3064/3064L. Corequisite: 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 3064/3064L. Corequisite: 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 2124/2124L and CHEM 3314.

Corequisite: 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 2124/2124L and CHEM 3314. Corequisite: 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 2144/2144L. Will not satisfy general education science requirements.

4174* CELL BIOLOGY *4 credit hours* Structural and functional organization of eukaryotic with an emphasis on human cells. Biological membranes, organelles, intracellular trafficking, cellular interactions, the cytoskeleton, and signal transduction are considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014/3014L. Corequisites: BIOL 4174L. Will not satisfy general education science requirements.

4174L* CELL BIOLOGY LAB *0 credit hours* LAB: Structural and functional organization of eukaryotic with an emphasis on human cells. Biological membranes, organelles, intracellular trafficking, cellular interactions, the cytoskeleton, and signal transduction are considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014/3014L. Corequisites: BIOL 4174. Will not satisfy general education science requirements.

4421-3 BIOLOGY INTERNSHIP *1-3 credit hours* Supervised work experience in a professional setting directly related to the field of biology, The internship will allow students to encounter practical workplace situations within their major field and gain practical experience in a business setting. Students may apply up to a maximum of three credit hours in internship credit to a major in Biology. A minimum of 32 hours of training or work is required per credit hour to a maximum of 3 credit hours. Prerequisite: Open to Biology majors who have

completed at least 24 hours in Biology and have Junior or Senior standing. Will not satisfy general education science requirements.

4901* BIOLOGY CAPSTONE II *1 credit hour* The second course in a two-semester biology capstone sequence. Includes required program assessment. Capstone/lecture 1 hour. Prerequisites: BIOL 3901 and senior standing in Biology. Will not satisfy general education science requirements. (Spring)

BUSINESS (BUS)

Business

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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.

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: 30 credit hours in business courses and Junior standing.

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. (Fall, Spring)

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 senior status, or permission of Chair. (Fall, Spring)

CATALAN (CTLN)

Communication, English, and Foreign Languages

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.

CHEMISTRY (CHEM)

Chemistry, Physics, and Engineering

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. Corequisite: CHEM 1105L. General Education Laboratory Science, Physical Science.

1105L* INTRODUCTION TO CHEMISTRY LAB *0 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. Corequisite: 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. (Fall, Spring)

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. Prerequisite or Corequisite: MATH 1513 or equivalent or higher. 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. (Fall, Spring)

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. (Fall, Spring)

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.

Chemistry courses at the 2000-, 3000-, or 4000-level **may not** be used to fulfill general education science requirements.

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. Will not satisfy general education science requirements. 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. Will not satisfy general education science requirements. (Fall)

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. Will not satisfy general education science requirements. (Fall, Spring Odd Years)

3232* 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. Will not satisfy general education science requirements. (Fall, Spring Odd Years)

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. Corequisite: CHEM 3314L. Will not satisfy general education science requirements. (Fall, Spring)

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. Corequisite: CHEM 3314. Will not satisfy general education science requirements. (Fall, Spring)

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. Corequisite: CHEM 3324L. Will not satisfy general education science requirements. (Fall, Spring)

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. Corequisite: CHEM 3324. Will not satisfy general education science requirements. (Fall, Spring)

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. Corequisite: CHEM 3334L. Will not satisfy general education science requirements.

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. Corequisite: CHEM 3334. Will not satisfy general education science requirements.

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. Corequisite: CHEM 3343L. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Corequisite: CHEM 4025L. Will not satisfy general education science requirements.

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. Corequisite: CHEM 4025. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

4361* PHYSICAL CHEMISTRY LABORATORY II 1 credit hour A continuation of CHEM 4351. Laboratory 3 hours. Prerequisite: CHEM 4363 or concurrent enrollment. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements. (Spring)

CHILD DEVELOPMENT (CD)

Education

1113 CHILD GROWTH AND DEVELOPMENT 3 credit hours A study of the major theories and research of child development birth-6, to include: language acquisition, brain development, social/emotional development, sensory/motor skill development, cognitive development, growth patterns, the influence of environmental factors, the influence of disabilities, and risk factors. Lecture 3 hours. (Spring)

1123 INTRODUCTION TO FAMILY AND CHILD STUDIES 3 credit hours An introduction to the field of family and child studies, focusing on career applications of family studies and child development. Lecture 3 hours. (Fall)

1213 CURRICULUM AND ENVIRONMENTS 3 credit hours A study of early childhood curriculum, experiences, and environments. Course does not meet requirements for teacher certification. Lecture 3 hours. (Fall)

2223 FOUNDATIONS AND CURRENT ISSUES IN EARLY CHILDHOOD 3 credit hours A study of social-emotional development and developmentally appropriate, evidence-based practices in child guidance. Lecture 3 hours.

2881-3 SPECIAL TOPICS 1-3 credit hours Directed individual or group study of selected topic(s) in Child Development. The course may be repeated for additional credit with departmental permission. Lecture 1-3 hours.

Prerequisite: As listed for each separate offering and/or departmental permission. Lecture 1-3 hours.
Prerequisite: as listed for each separate offering and/or department permission.

3223 CHILD GUIDANCE 3 credit hours A study of social-emotional development and developmentally appropriate, evidence-based practices in child guidance. Lecture 3 hours. (Fall)

3233 EMERGENT LITERACY FOR YOUNG CHILDREN 3 credit hours A study of language development; the study of principles, strategies, and practices of emergent literacy. The course focuses on emergent literacy best practices through the examination and application of current research in early literacy, including diversity and cultural considerations. Course does not meet requirements for teacher certification. Lecture 3 hours. (Spring)

4223 ADMINISTRATION AND SUPERVISION IN EARLY CHILDHOOD 3 credit hours Exploration of leadership and administration in early childhood settings, including business management, community collaborations, program evaluation, policy considerations, and strategic planning. Best practices in the recruitment, selection, training, supervision, and well-being of faculty/staff. Lecture 3 hours. (Fall)

4333 DEVELOPMENTAL ASSESSMENT AND OBSERVATION 3 credit hours A study of observational practices and methods of authentic assessment. Content includes focus on using assessment and observation to inform learning experiences, environments, and interventions. Lecture 3 hours. Prerequisite: CD 1113. (Spring)

CHINESE (CHNS)

Communication, English, and Foreign Languages

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)

Communication, English, and Foreign Languages

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)

Communication, English, and Foreign Languages

1113* COMANCHE LANGUAGE I 3 credit hours An introductory course in the language and culture of the Comanche people. Lecture 3 hours. General Education, Humanities–Diversity.

1223* COMANCHE LANGUAGE II 3 credit hours Continuation of CMCH 1113. Lecture 3 hours. Prerequisite: CMCH 1113 or equivalent. General Education, Humanities–Diversity.

COMMUNICATION (COMM)

Communication, English, and Foreign Languages

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.

2213* 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. (Spring)

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. (Spring)

2393* 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. (Fall)

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. (Fall)

2901* STRATEGIC COMMUNICATION CAPSTONE 1 credit hour A reflection and expansion on the skills and knowledge gained from Strategic Communication courses of the AA in Strategic Communication program. Students will develop a portfolio of Strategic Communication skills, including a writing sample, a recorded presentation and a digital artifact. Capstone/Lecture 1 hour. Prerequisite: Departmental permission. (Fall, Spring)

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.

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.

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 AND ORGANIZATIONAL COMMUNICATION 3 credit hours The theory and function of communication within businesses, government, hospitals, schools, industrial firms, and other

organizations with emphasis on concepts and principles needed for effective communication. Lecture 3 hours. (Spring)

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 2393, COMM 4673 or PBRL 2113, RTV 1013, and JOUR 2113. Student must have completed at least 18 credit hours of communication coursework. (Fall, Spring)

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.

COMPUTER AIDED DRAFTING (CAD)

Computing and Technology

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. Corequisite: 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. Corequisite: CAD 1013.

COMPUTER INFORMATION SYSTEMS (CIS)

Computing and Technology

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.

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.

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.

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.

COMPUTER SCIENCE (CS)

Computing and Technology

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. (Fall, Spring)

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. Corequisite: CS 1314. (Fall, Spring)

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: CS 1313 or CS 1314/1314L with a grade of "C" or higher. Corequisite: CS 1514L. (Fall)

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: CS 1313 or CS 1314/1314L with a grade of "C" or higher. Corequisite: CS 1514. (Fall)

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. (Fall)

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 CS 1513 or CS 1514/1514L with a grade of "C" or higher. (Spring)

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. (Spring)

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 and IT 1063. (Fall)

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, they 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 IT 2033 or MIS 2113 or MM 2033. (Cross-listed with MIS 3033.) (Spring)

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. (Fall)

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. (Fall)

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. Corequisite: CS 4204L. (Fall)

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. Corequisite: CS 4204. (Fall)

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. (Spring)

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 chair. Independent study 1-3 hours. Prerequisite: Approval by department chair and faculty member supervising the project.

CRIMINAL JUSTICE (CJ)

Social Sciences

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. (Fall, Spring)

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: CJ 1013.

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. (Fall, Spring)

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.

2043* LAW AND SOCIETY *3 credit hours* This course discusses the study of the relationships and interactions between law, social structure, and cultural practices. Also included are theoretical perspectives from a number of social science disciplines. Stress is placed upon the relationship of law to social value and morals. These areas of study are intertwined with other sociological concerns such as inequality, power, social organizations, social psychology, social change, race, gender, culture, and communication. Addresses issues regarding the balance between the interests of society and individual rights. Lecture 3 hours. Prerequisite: CJ 1013.

2053* COMMUNITY CORRECTIONS AND TREATMENT METHODS 3 credit hours A study of the work of Community Corrections employees and their methods of monitoring and counseling correctional individuals and families. The course will explore programs and services offered through the community that specialize in multiple types of addictions and treatment methods. Lecture 3 hours. Prerequisite: CJ 1013.

2063* ASPECTS OF CRIMINAL INVESTIGATION 3 credit hours This course discusses the duties of law enforcement personnel who are involved throughout the criminal investigation process of different categories of crime scenes. Specific topics include crime scene processing, interviewing techniques, and chain of custody issues. Coverage will also include successful care management techniques that encompass current and emerging forensic technologies, courtroom preparation, and report writing. Lecture 3 hours. Prerequisite: 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. (Fall, Spring)

2083* 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.

2103* CASE MANAGEMENT AND CORRECTIONAL LAW 3 credit hours The 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. Prerequisite: CJ 1013.

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. Prerequisite: CJ 1013. Lecture 3 hours. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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* CRIMINAL JUSTICE AND FILM 3 credit hours This course is an examination of how television and films depict crime and the criminal justice system. Films are scrutinized on the manner that victims, perpetrators, witnesses, and criminal justice agents (police, attorneys, correction officers, and judges) are depicted in television and motion pictures. Emphasis is placed on the way entertainment illustrates criminology and victimology. Lecture 3 hours. Prerequisites: CJ 1013.

3033* CYBERCRIME 3 credit hours A detailed analysis regarding the evolution of crime due to the use of and advancements in technology. This course will provide students with an introduction of the social, legal, and technical impact of cybercrime. Students will explore how to identify, investigate, and collect evidence for different types of crimes involving computers and cyberspace. Lecture 3 hours. Prerequisites: CJ 1013 and CJ 2113.

3063* CRIMINAL EVIDENCE AND PROCEDURES 3 credit hours A study of the procedures for conducting civil litigation and criminal trials, and an examination of constitutional case law as decided by the Appellate Courts and the U.S. Supreme Court. Focus is on the criminal justice system and its relation to government powers and citizen's constitutional rights. Lecture 3 hours. Prerequisites: CJ 1013 and CJ 2113.

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. (Fall, Spring)

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. (Fall)

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* HOMELAND SECURITY 3 credit hours This course is an analysis of terrorism and how our criminal justice and homeland security systems deal with this problem in both the national and international arenas. The course includes the discussion of definition, structure, causes, methods, 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. (Fall)

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. (Fall, Spring)

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.

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. (Spring)

CYBER SECURITY & INFORMATION ASSURANCE (IAS)

Computing and Technology

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: IT 1013 and ENGL 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. (Fall, Spring)

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.

DARI (DARI)**Communication, English, and Foreign Languages**

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)**Communication, English, and Foreign Languages**

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.

EARLY CHILDHOOD EDUCATION (ECE)**Education**

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. (Spring)

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. (Fall)

3303 HOME, SCHOOL AND COMMUNITY *3 credit hours* Examination of family theories and relationships with schools and communities. Exploration of diversity, equity, and social justice in the context of the child, family, educator, school, and community. Lecture 3 hours. (Fall)

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. (Spring)

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.

EARTH SCIENCE (ESCI)**Agriculture, Biology, and Health Sciences**

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. Corequisite: 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. Corequisite: ESCI 1135.

ECONOMICS (ECON)**Business**

2003* ECONOMIC FOUNDATIONS OF FINANCE *3 credit hours* A first course in the economic underpinnings of personal finance, incorporating the basic analytical frameworks used by economists and financial planners. The central topics typically include supply and demand, unemployment, inflation, interest rates, time value of money, taxation and tax strategy, savings and investments, debt instruments, insurance, and financial institutions. Recommended for non-Business majors. Lecture 3 hours. General Education, Economics.

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. (Fall, Spring)

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 1463 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.)

3823* QUANTITATIVE METHODS 3 credit hours Decision-making processes and techniques. This course emphasizes the quantitative skills needed in all areas of business and economics. These skills include statistical, econometric, forecasting, and decision analysis. Computer utilization is used in analyzing and solving business and economic-related problems. Lecture 3 hours. Prerequisites: STAT 2613 and ECON 2023.

EDUCATION (EDUC)

Education

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. (Fall, Spring)

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. (Fall, Spring)

3513 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. (Spring)

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: IMPACTS ON LEARNING *3 credit hours* A study of learners, schools, and the community and related effects on teaching and learning. Includes sixty (60) hours of observation and participation in the public schools under mentor teacher guidance. Practicum 3 hours. Prerequisite: Admission to Teacher Education.

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. (Spring, Odd Years)

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. (Fall)

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. (Fall, Spring)

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. (Summer)

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. (Fall, Spring)

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.

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.

4891-2 SPECIAL STUDIES *1-2 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.

4893 METHODS AND MANAGEMENT IN TEACHING *3 credit hours* This course is designed to teach best practices and methods of effective teaching and classroom management. Lecture 3 hours. Prerequisite: EDUC 3003.

4935 CLINICAL EXPERIENCE IN TEACHING I *5 credit hours* Education preparation program majors engage in full-time clinical/student teaching experiences with particular emphasis on the learner and learning context, content knowledge, and instructional practice under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Clinical Practice 5 hours. Prerequisite: Admission to professional semester.

4945 CLINICAL EXPERIENCE IN TEACHING II *5 credit hours* Education preparation program majors engage in full-time clinical/student teaching experiences with particular emphasis on instructional practice, professional responsibility, and connecting theory to practice under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Clinical Practice 5 hours. Prerequisite: Admission to professional semester.

ENGINEERING (ENGR)

Chemistry, Physics, and Engineering

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. (Fall)

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. (Fall)

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 or concurrent enrollment. (Spring)

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. (Fall)

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. Corequisite: 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. Corequisite: 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, mech and node formulation of network equations, steady-state response to sinusoids, energy, power and power factor. Lecture 3 hours. Prerequisites: ENGR 2113 and MATH 2235. (Spring)

ENGLISH (ENGL)

Communication, English, and Foreign Languages

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. 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 2 credit hours Writing tutorial providing remediation and support for those students who are enrolled in ENGL 1113, but whose test scores and prior coursework do not indicate preparedness for college-level writing classes. Does not

satisfy major requirements for any degree program at Cameron University. Lecture 2 hours. Prerequisite: Satisfactory placement score. Corequisite: 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.

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.

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.

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. (Fall)

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. (Fall)

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. (Spring)

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. (Fall)

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. (Spring)

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. (Fall)

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. (Spring)

3113* SHAKESPEARE *3 credit hours* Interpretation and criticism of selected works of Shakespeare. Lecture 3 hours. (Spring)

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. (Spring)

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. (Fall)

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. (Fall)

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 18th 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. (Fall)

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. (Spring)

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. (Fall)

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. (Fall)

ENVIRONMENTAL SCIENCE (ENSC)

Agriculture, Biology, and Health Sciences

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. Prerequisites: AGRC 1124/1124L or AGRC 1214/1214L or AGRC 2013. Will not satisfy general education science requirements.

3203 PRESCRIPTION BURNING AND GRAZING

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 AGRC 1124/1124L or AGRC 1214/1214L or AGRC 2013. Will not satisfy general education science requirements.

FAMILY SCIENCE (FAMS)

Psychology

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. (Fall, Spring)

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. Lecture 3 hours. Prerequisite: FAMS 1123, junior standing or permission of the department. (Spring)

3153* 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. (Fall, Spring)

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* MILITARY FAMILIES *3 credit hours* This course will emphasize the unique culture of military families, their resilience, and the challenges of military life. A review of the latest research, theories, policies, and programs is included to prepare students for understanding and working with military families. 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. (FA)

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. Emphasis placed on the experiences, challenges, and strengths, of families in poverty in the U.S. Prerequisite: FAMS 1123 or SOCI 1113. (Spring, Odd Years)

4702 CAREER RESEARCH AND PROFESSIONAL DEVELOPMENT *2 credit hours* This course will include supervised research and observation in areas of career interest to students, and development in resume building, interviewing skills, and professionalism. Prerequisite: CD 1113, CD 1123, CD 3223, FAMS 1123, FAMS 3143, FAMS 4333 (Fall, Spring, Summer)

4803 FAMILY LIFE EDUCATION *3 credit hours* This course will emphasize the theoretical and research foundations of family life education, including principles and methods for reaching out to the public, and how to form and use community collaborations. Lecture 3 hours. Prerequisites: FAMS 1123 and FAMS 3143.

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.

FINANCE (FIN)

Business

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. (Fall, Spring)

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 1463 or higher. (Fall, Spring)

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.

FINE ARTS (FNAR)

Art, Music, and Theatre Arts

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.

FRENCH (FREN)

Communication, English, and Foreign Languages

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. (Fall)

1223* BEGINNING FRENCH II *3 credit hours* Continuation of FREN 1113. Lecture 3 hours. Prerequisite: FREN 1113 or equivalent. General Education, Humanities–Diversity. (Spring)

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. (Fall)

2223* INTERMEDIATE FRENCH II *3 credit hours* Continuation of FREN 2113. Lecture 3 hours. Prerequisite: FREN 2113 or the equivalent. (Spring)

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.

GEOGRAPHY (GEOG)

Social Sciences

1014* PHYSICAL GEOGRAPHY *4 credit hours* A basic introduction to the physical elements of the Earth as they relate to humans. The influence of such factors as soils and minerals, landforms, and hydrography, vegetation, weather, and climate are emphasized. This course is designed for non-science majors. Lecture/Demonstration, 4 hours. General Education, Physical Science.

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. (Fall)

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. (Fall, Spring)

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. (Spring)

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.

GERMAN (GERM)

Communication, English, and Foreign Languages

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. (Fall)

1223* BEGINNING GERMAN II *3 credit hours* Continuation of GERM 1113. Lecture 3 hours. Prerequisite: GERM 1113 or equivalent. General Education, Humanities-Diversity. (Spring)

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. (Fall)

2223* INTERMEDIATE GERMAN II *3 credit hours* Continuation of GERM 2213. Conducted largely in German. Lecture 3 hours. Prerequisite: GERM 2213 or equivalent. (Spring)

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.

HISTORY (HIST)

Social Sciences

1113* EARLY WORLD HISTORY *3 credit hours* Survey of world history from the earliest times to 1400. Lecture 3 hours. General Education, Humanities-Diversity. (Fall)

1123* MODERN WORLD HISTORY *3 credit hours* Survey of world history from 1400 to the present. Lecture 3 hours. General Education, Humanities-Diversity. (Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall)

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. (Fall)

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. (Spring)

3033* RACE AND 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. (Spring)

3123* THE CRUSADES, 1095-1798 *3 credit hours* From the middle of the 10th century C.E. through the early 16th 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 AND POLITICS *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 through 1763. 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* A history of the causes and consequences of the War for American Independence and the early years of the United States. Includes the drafting and adoption of the U.S. Constitution, the organization of the first national government, the formation of political parties, territorial expansion, foreign policy, economic development, and the emerging conflict between nationalism and sectionalism through 1815. Lecture 3 hours. Prerequisite: 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* COLD WAR AMERICA, 1945-1991 *3 credit hours* A study of the political, economic, social, cultural and diplomatic changes in America between 1945 and 1991. 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* FRONTIER EUROPE, 1300-1800 *3 credit hours* Europe, too, had a frontier that definitively shaped its pre-modern foundations. 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 Britain, Denmark-Norway, northern Germany, Sweden, Poland, and the northern Low Countries, which collectively, constituted the heart of the European frontier. 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 15th to the mid-17th 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* 20TH 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* HEROES AND VILLAINS OF THE FRENCH REVOLUTION, 1780-1815 *3 credit hours* The French Revolution is, in the minds of some, the first modern revolution, making it one of the pivotal moments informing the shape of modernity. In this course we take a unique approach to this era by looking at the Revolution through the eyes of those who most influenced it. Using biographies, memoirs, diaries, and other first-hand accounts, we will explore the unfolding and wider implications of the French Revolution by trying to understand each of their particular perspectives on its own terms, even as we acknowledge that in an event such as the French Revolution, some have come down to us as

heroic figures and some as villains. 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. (Fall)

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. (Spring, Even Years)

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.

INFORMATION TECHNOLOGY (IT)

Computing and Technology

1013* INTRODUCTION TO COMPUTER 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. (Fall, Spring) (Formerly CIS 1013)

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: IT 1013 or concurrent enrollment. (Fall, Spring)

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. Corequisite: IT 1414L. (Spring)

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. Corequisite: IT 1414. (Spring)

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: IT 1414/1414L or CS 1314/1314L. (Fall) (Formerly CIS 2033)

2064 INTERNETWORKING TECHNOLOGIES 4 credit hours This course covers technologies, protocols, and techniques used to connect a computer network with other networks and route messages between the networks. Topics include Local Area Networks (LAN), Wide Area Networks (WAN), wireless networks, network services, network security, advanced switching and routing configuration, advanced TCP/IP configuration, and network management. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1063. Corequisite: IT 2064L. (Fall, Spring)

2064L INTERNETWORKING TECHNOLOGIES LAB 0 credit hours LAB: This course covers technologies, protocols, and techniques used to connect a computer network with other networks and route messages between the networks. Topics include Local Area Networks (LAN), Wide Area Networks (WAN), wireless networks, network services, network security, advanced switching and routing configuration, advanced TCP/IP configuration, and network management. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1063. Corequisite: IT 2064L. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 1063. Corequisite: IT 2064. (Fall, Spring)

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. Corequisite: IT 2414L. (Fall)

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. Corequisite: IT 2414. (Fall)

3000-3 IT WORKSHOP *0-3 credit hours* Designed to give intensive emphasis to a specific area of information technology. May be repeated with a change of content for a maximum of 6 hours credit. Lecture, 0-3 hours. Prerequisite: Junior standing and/or departmental permission. (Formerly TECH 3000-3)

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. (Fall) (Formerly TECH 3013)

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: IT 2033. (Formerly CIS 3033)

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. Corequisite: IT 3064L. (Formerly CIS 3064)

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. Corequisite: IT 3064. (Formerly CIS 3064L)

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. (Fall, Spring)

4001-6 IT 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. (Formerly TECH 4001-6)

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. (Spring)

4343* LEGAL AND ETHICAL ISSUES FOR THE IT PROFESSIONAL *3 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 3 hours. Prerequisite: Junior standing. (Spring)

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. (Formerly TECH 4033)

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. (Formerly TECH 4143)

4443 IT CAPSTONE *3 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 3 hours. Prerequisites: Senior standing, and IT 3603, and CS 3183 or MIS 3033. (Spring)

4491-3 INDEPENDENT STUDY IN IT *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: Junior standing or departmental permission. The total number of hours earned in Independent Study may not exceed four. (Formerly TECH 4491-3)

ITALIAN (ITAL)

Communication, English, and Foreign Languages

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.

JOURNALISM (JOUR)

Communication, English, and Foreign Languages

2113* INTRODUCTION TO JOURNALISM 3 credit hours Mass communication and the importance of the media's role in American society. Lecture 3 hours. Corequisite: 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 AND MEDIA PRODUCTION (JRMP)

Communication, English, and Foreign Languages

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. (Fall, Spring)

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. (Fall, Spring)

1313* AUDIO AND VISUAL PRODUCTION 3 credit hours Introduction to principles and techniques of audio and video production in radio, television, and online applications. Lecture 2 hours, laboratory 3 hours. (Fall, Spring)

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. Corequisite: 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. Corequisite: 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. Corequisite: JRMP 2333L. (Spring)

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. Corequisite: JRMP 2333. (Spring)

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. (Fall, Spring)

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. Corequisite: 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. (Fall, Odd Years)

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 online. Practicum, 1-2 hours. Prerequisite: Sophomore standing. (Fall, Spring)

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.

LANGUAGE (LANG)

Communication, English, and Foreign Languages

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)

Communication, English, and Foreign Languages

1113* BEGINNING LATIN I 3 credit hours An introductory course in understanding, speaking, reading, and writing Latin. Lecture 3 hours. General Education, Humanities-Diversity. (Fall)

1223* BEGINNING LATIN II 3 credit hours Continuation of LATN 1113. Lecture 3 hours. Prerequisite: LATN 1113 or equivalent. General Education, Humanities-Diversity. (Spring)

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. (Fall)

2223* INTERMEDIATE LATIN II 3 credit hours Continuation of LATN 2113. Lecture 3 hours. Prerequisite: LATN 2113 or equivalent. (Spring)

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.

LIBRARY SCIENCE (LIBS)**Education**

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. (Fall, Spring)

LINGUISTICS (LING)**Communication, English, and Foreign Languages**

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. (Fall)

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.

MANAGEMENT (MGMT)**Business**

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. (Fall, Spring)

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, ETHICS, AND SOCIETY *3 credit hours* An examination of the external environment of business, the need to ethically manage the external environment, and management's ethical responsibilities to the various elements of the environment. Lecture 3 hours. Prerequisite: MGMT 3013. (Fall, Spring)

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.

MANAGEMENT INFORMATION SYSTEMS (MIS)**Computing and Technology**

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: IT 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. (Fall, Spring)

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: IT 1013 or MIS 2113 or computer proficiency. (Fall, Spring)

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 IT 2033 or MIS 2113 or MM 2033. (Cross-listed with CS 3183.) (Fall)

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.

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. (Formerly CIS 3183)

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.

4023 DATA ANALYTICS *3 credit hours* The strategies and processes for Data Analytics of large databases. The major focus of this course is data analytics applications related to the corporate business world. Examples of discussion areas include banking and finance, retail, and health care. Prerequisite: STAT 2013 or MIS 3033 or CS 3183.

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.

MARKETING (MKTG)

Business

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: BUS 1113. (Fall, Spring)

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.

MATHEMATICS (MATH)

[*Mathematical Sciences*](#)

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. 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. 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. Lecture 5 hours. Prerequisite: MATH 0013 or satisfactory placement score.

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 major requirements for any degree program at Cameron University. Lecture 2 hours. Prerequisite: MATH 0103 or satisfactory placement score. Corequisite: 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 major requirements for any degree program at Cameron University. Lecture 2 hours. Prerequisite: MATH 0103 or satisfactory placement score. Corequisite: MATH 1513.

0162 SUPPLEMENTAL FUNCTIONS AND MODELING INSTRUCTION *Developmental course, no credit* Remediation and support for students who are enrolled in MATH 1463, but whose test scores and prior coursework do not indicate preparedness for college-level mathematics classes. Recommended for students enrolled in MATH 1463 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 1463.

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. 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* An introductory course in Mathematics designed to acquaint the student with mathematical ideas and their applications. This course covers topics in mathematics to help the student develop quantitative reasoning skills and to better understand the world around them. Topics include (but are not limited to) finance, statistics, describing data, and linear programming. Does not apply toward a major or minor in mathematics. Lecture 3 hours. Prerequisite: MATH 0213 or MATH 0115 or satisfactory placement score. General Education, Mathematics. (Fall, Spring)

1463* FUNCTIONS AND MODELING *3 credit hours* Topics covered are equations and functions (linear, polynomial, rational, exponential, logarithmic) from various perspectives (symbolic, verbal, numerical, graphical); digital techniques for graphing functions, solving equations, and modeling data using regressions. This course is designed for students in agricultural, business, life/health science, or social science majors. Does not apply towards a minor or major in mathematics. Lecture 3 hours. Prerequisite: MATH 0213 or MATH 0115 or satisfactory placement score. General Education, Mathematics.

1513* COLLEGE ALGEBRA *3 credit hours* Topics covered are functions and graphs, including polynomial, rational, exponential and logarithmic; linear and nonlinear systems; and matrices. 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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall)

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. (Fall, Spring)

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. (Fall, Spring)

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 chair. 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. (Fall)

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. Lecture 1 hour. 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. (Fall, Odd Years)

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. (Spring, Even Years)

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. (Spring)

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 chair. 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. (Spring, Odd Years)

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 chair. 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. (Fall)

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. (Spring)

MEDICAL LABORATORY SCIENCE (MLS)

Agriculture, Biology, and Health Sciences

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

MILITARY SCIENCE AND LEADERSHIP (MSL)

Military Science

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.

1110 PHYSICAL FITNESS 0 credit hours Explore components of a fitness plan through practical experience and instruction with emphasis on aerobic and anaerobic fitness, muscular strength and endurance, flexibility, and nutrition. The course is modelled around the Army Physical Readiness Training (PRT) Program. For participating students who are not in the ROTC program, the Army PRT Program offers a different approach to fitness and fitness assessment. Will not satisfy General Education, Health and Wellness. May be repeated up to 7 times. Laboratory 0 hours.

1112 PHYSICAL FITNESS 2 credit hours Explore components of a fitness plan through practical experience

and instruction with emphasis on aerobic and anaerobic fitness, muscular strength and endurance, flexibility, and nutrition. The course is modelled around the Army Physical Readiness Training (PRT) Program. For participating students who are not in the ROTC program, the Army PRT Program offers a different approach to fitness and fitness assessment. May be repeated for a maximum of 4 hours credit. Laboratory 4 hours. General Education, Health and Wellness.

1212 RANGER CHALLENGE 2 credit hours A Ranger Challenge Team is made up of nine people competing in various physically and mentally challenging events including rifle disassembly/assembly, an Army Physical Fitness Test, land navigation (written and actual), grenade assault course, basic rifle marksmanship, obstacle course, one-rope bridge, radio assembly, and a ten-kilometer road march. Each year, Ranger Challenge teams across the country compete against each other in this two day competition. Lecture with Activity 2 hours. Prerequisite: Department permission.

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.

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.

4031 INTERNSHIP/LAB IN MILITARY SCIENCE *1 credit hour* Placement of advanced military science students in applied job settings conducting company level duties along side a serving platoon leader or staff officer within the student's desired Army branch and/or students will be in a weekly leadership laboratory emphasizing advanced practical application of leadership and military skills. Internship/lab, 1 hour. May be repeated for a maximum of 3 hours credit. Prerequisites: Concurrent enrollment in MSL 4032, completion of military science advanced labs and permission of the Professor of Military Science.

4032 SEMINAR IN MILITARY SCIENCE *2 credit hours* Students will learn various theories of leadership and organizational culture while developing practical experience in the application of those theories within a peer leadership setting. Additionally, the course will include elements of military history, social theory, and ethics. Seminar, 2 hours. May be repeated for a maximum of 6 hours credit. Prerequisites: Concurrent enrollment in MSL 4031, completion of military science advanced courses, and permission of the Professor of Military Science.

MULTIMEDIA DESIGN (MM)

Computing and Technology

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: IT 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: IT 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 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.

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. Capstone, 4 hours. Prerequisites: MM 4003 and completion or concurrent enrollment in MM 4414 and MM 4023.

MUSIC (MUSC)

Art, Music, and Theatre Arts

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. (Fall, Spring)

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 CONCERT 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. (Fall, Spring)

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. (Fall, Spring)

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 CONCERT 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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

1210-1 COMMUNITY BAND *0-1 credit hour* Performance ensemble open to all Cameron students, faculty, staff, and community members in a format convenient for working members of the community. Rehearsal 2-3 hours per week. May be repeated for credit or non-credit.

1230-1 COMMUNITY JAZZ ENSEMBLE *0-1 credit hour* Performance ensemble open to all Cameron students, faculty, staff, and community members in a format convenient for working members of the community. Rehearsal 2-3 hours per week. May be repeated for credit or non-credit.

1413* MUSIC LITERATURE *3 credit hours* A An overview of the development of western musical styles from antiquity to the present. Requires the ability to read music. 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. (Fall, Spring)

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. (Fall)

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. (Fall)

2332* HARMONY AND STRUCTURE II *2 credit hours* A continuation of MUSC 2312. Lecture 1 hour, laboratory 2 hours. Prerequisite: MUSC 2312. (Spring)

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. (Spring)

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. (Fall, Spring)

3313* HARMONY AND STRUCTURE III *3 credit hours* A continuation of MUSC 2332. Lecture 3 hours. Prerequisite: MUSC 2332. (Fall)

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. (Fall)

3333* HARMONY AND STRUCTURE IV *3 credit hours* A continuation of MUSC 3313, the study of the harmony and structure of music through music analysis, composition, and the development of associated functional keyboard skills. Included will be a study of the standard polyphonic and homophonic forms of the 18th and 19th centuries. Lecture 3 hours. Prerequisite: MUSC 3313. (Spring)

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. (Spring)

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 *3 credit hours* A general study of music development from antiquity through the Baroque era. Lecture 3 hours. (Fall)

3523* MUSIC HISTORY II *3 credit hours* A continuation of MUSC 3513. A study of music development from the Classical era to the present. Lecture 3 hours. Prerequisite: MUSC 3513. (Spring)

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. (Fall, Odd Years)

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. (Spring, Even Years)

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* ENGLISH AND ITALIAN DICTION *1 credit hour* An introduction to diction in English and Italian based on the song literature and using the International Phonetic Alphabet (IPA) through singing, oral, and written drill. Laboratory 2 hours.

3771* FRENCH AND GERMAN DICTION *1 credit hour* An introduction to diction in French and German based on the song literature and using the International Phonetic Alphabet (IPA) through singing, oral, and written drill. 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 and minors 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 *1-2 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 1-2 hours. Prerequisite: Departmental permission.

3983 SPECIAL TOPICS IN THE ADVANCED STUDY OF MUSIC *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 3 hours. Prerequisite: Departmental 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. (Fall, Spring)

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. (Spring, Odd Years)

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. (Fall, Odd Years)

4343* ARRANGING *3 credit hours* The study of the art of arranging for instrumental and vocal ensembles. Lecture 3 hours. Prerequisite: MUSC 3333. (Fall, Even Years)

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 and Music History Sequence. (Fall, Spring)

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. (Fall, Spring)

ORGANIZATIONAL LEADERSHIP (ORGL)

Business

2102 FOUNDATIONS OF LEADERSHIP *2 credit hours* A course designed to familiarize students with the theoretical and practical underpinnings of transformative leadership within the public and private sectors. Knowledge, skills, and foundation in leadership necessary to be an effective leader in a variety of settings is provided. Restricted to 2nd year PLUS students. Lecture 2 hours. Prerequisite: Permission of PLUS advisor.

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. (Fall)

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. (Fall, Spring)

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. (Fall)

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. (Spring)

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. (Fall)

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. (Fall)

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. (Spring)

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. (Spring)

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. (Spring)

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.

PASHTO (PHTO)

Communication, English, and Foreign Languages

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)

Communication, English, and Foreign Languages

1113* BEGINNING PERSIAN (FARSI) I *3 credit hours* An introductory course in the language and cultures of Iran and Afghanistan. Lecture 3 hours. General Education, Humanities–Diversity.

1223* BEGINNING PERSIAN (FARSI) II *3 credit hours* Continuation of PRSN 1113. Lecture 3 hours. Prerequisite: PRSN 1113 or equivalent. General Education, Humanities–Diversity.

PHILOSOPHY (PHIL)

Social Sciences

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.

PHYSICAL EDUCATION ACTIVITY (PE)

Sports and Exercise Science

1021 TEAM SPORTS–COED *1 credit hour* Refine team sport skills through drill instruction and class participation. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1081 PHYSICAL EDUCATION ACTIVITY *1 credit hour* Individual and group activities for general physical improvement. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1091 TOTAL FITNESS *1 credit hour* Low impact exercise that combines strength and cardiovascular conditioning that lead to improved exercise outcomes. A medical

release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1111 WATER EXERCISE *1 credit hour* To improve overall cardiovascular fitness level through aquatic based exercise modalities. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1171 VOLLEYBALL *1 credit hour* Fundamentals and techniques of volleyball. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1181 RACQUET SPORTS *1 credit hour* Basic skills and knowledge associated with playing a variety of racquet sports. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1231 WALKING AND JOGGING I *1 credit hour* Participation in introductory exercise programs that involve walking and jogging to promote physical fitness. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1241 WALKING AND JOGGING II *1 credit hour* Participate in intermediate exercise programs that involve walking and jogging to help maintain physical fitness. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1271 WEIGHT TRAINING *1 credit hour* Participate in an exercise program with emphasis on muscular strength and endurance. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1361 SPIN *1 credit hour* Low to moderate intensity workout for building strength. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1441 WEIGHT LOSS YOGA *1 credit hour* Discuss current eating trends and perform breathing exercises, yoga poses and meditation techniques that support weight loss. A medical release is required for students who may need exercise accommodations due to a medical condition. 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. A medical release is required for students who may

need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

1601 INTRODUCTION TO HIKING *1 credit hour* Review safety guidelines and develop basic skills for exploring popular hiking trails. A medical release is required for students who may need exercise accommodations due to a medical condition. Laboratory 2 hours. General Education, Health and Wellness.

PHYSICAL SCIENCE (PSCI)

[Chemistry, Physics, and Engineering](#)

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.

PHYSICS (PHYS)

[Chemistry, Physics, and Engineering](#)

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. Corequisite: PHYS 1115L. General Education Laboratory Science, Physical Science. (Fall)

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. Corequisite: PHYS 1115. General Education Laboratory Science, Physical Science. (Fall)

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. Corequisite: PHYS 1215L. Will not satisfy general education science requirements. (Spring)

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. Corequisite: PHYS 1215. Will not satisfy general education science requirements. (Spring)

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 4 hours, laboratory 2 hours. Prerequisite: MATH 2215 or concurrent enrollment. Corequisite: PHYS 2015L. General Education Laboratory Science, Physical Science. (Spring)

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 4 hours, laboratory 2 hours. Prerequisite: MATH 2215 or concurrent enrollment. Corequisite: PHYS 2015. General Education Laboratory Science, Physical Science. (Spring)

Physics courses at the 2000-, 3000-, or 4000-level **may not** be used to fulfill General Education science requirements (except PHYS 2015/2015L).

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 4 hours, laboratory 2 hours. Prerequisite: PHYS 2015. Corequisite: PHYS 2025L. Will not satisfy general education science requirements. (Fall)

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 4 hours, laboratory 2 hours. Prerequisite: PHYS 2015. Corequisite: PHYS 2025. Will not satisfy general education science requirements. (Fall)

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements. (Fall)

3003* MODERN PHYSICS 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. Will not satisfy general education science requirements. (Spring)

3011* MODERN PHYSICS 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. Will not satisfy general education science requirements. (Spring)

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements. (Spring, Even Years)

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. Will not satisfy general education science requirements. (Fall, Even Years)

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. Will not satisfy general education science requirements. (Fall, Odd Years)

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. Will not satisfy general education science requirements. (Spring, Odd Years)

4243 SOLID STATE PHYSICS 3 credit hours This is a thorough introductory course in modern solid state physics. Main topics of the course include principles of behavior of electrons in solids, crystal structure and diffraction, free electron gas, elementary band theory, semiconductors, magnetism and superconductivity. Lecture 3 hours. Prerequisites: PHYS 1215 or 2015 and MATH 3253 or concurrent enrollment. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements. (Fall)

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. Will not satisfy general education science requirements. (Fall)

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements.

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. Will not satisfy general education science requirements. (Spring)

POLISH (PLSH)

Communication, English, and Foreign Languages

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.

POLITICAL SCIENCE (PS)

Social Sciences

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.

2013* INTRODUCTION TO INTERNATIONAL RELATIONS 3 credit hours An introduction to the history, theories, and practices of international relations. 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. (Fall, Odd Years)

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. (Spring, Odd Years)

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.

3603* 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. (Spring, Even Years)

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* ACADEMIC RESEARCH IN POLITICAL SCIENCE *3 credit hours* This course consists of relevant readings and discussion to assist Political Science majors 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. This course also provides an opportunity for students to examine career opportunities as well as further options to continue their education. Students will also complete an examination designed to assess their overall knowledge of Political Science as well as their critical thinking skills. Capstone/lecture 3 hours. Prerequisites: ENGL 1213 and PS 1113. PS 2113 and PS 2793 strongly recommended. (Spring, Odd Years)

PORTUGUESE (PORT)

Communication, English, and Foreign Languages

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)***Communication, English, and Foreign Languages***

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. (Spring)

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. (Spring)

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.

PSYCHOLOGY (PSY)***Psychology***

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

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. (Fall, Spring)

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. (Fall, Spring)

3363* PSYCHOLOGY OF MIDDLE CHILDHOOD *3 credit hours* This course will include and in-depth study of the theories, research, and findings in the biological, psychological, and social development of middle

childhood (age 7-11). Lecture 3 hours. Prerequisite: PSY 1113. (Fall, Spring)

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. (Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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

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. (Fall, Spring)

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. (Fall, Spring)

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 their 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.

PUBLIC RELATIONS (PBRL)

Communication, English, and Foreign Languages

2113* INTRODUCTION TO 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. (Spring)

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 2113.

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)

Communication, English, and Foreign Languages

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.

RADIOLOGIC TECHNOLOGY (RAD)

Agriculture, Biology, and Health Sciences

2012 INTRODUCTION TO RADIOLOGIC SCIENCES AND HEALTH CARE 2 credit hours Provides an overview of the foundations of radiography and the practitioner's role in health care delivery and includes a minimum of 82.5 contact hours of clinical training. 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 clinical component. 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 1 hour, Clinical 5.5 hours. Prerequisite: Acceptance into the Radiologic Technology Program and departmental permission. Corequisite: RAD 2012L. Will not satisfy general education science requirements. (Fall)

2012L INTRODUCTION TO RADIOLOGIC SCIENCES AND HEALTH CARE LAB 0 credit hours LAB: Provides an overview of the foundations of radiography and the practitioner's role in health care delivery and includes a minimum of 82.5 contact hours of clinical training. 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 clinical component. 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 1 hour,

Clinical 5.5 hours. Prerequisite: Acceptance into the Radiologic Technology Program and departmental permission. Corequisite: RAD 2012. Will not satisfy general education science requirements. (Fall)

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 using standard precautions. 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 1 hour, lab 5 hours. Prerequisite: Acceptance into Radiologic Technology Program and departmental permission. Corequisite: RAD 2113L. Will not satisfy general education science requirements. (Fall)

2113L PATIENT CARE IN RADIOLOGIC SCIENCES LAB 0 credit hours LAB: 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 using standard precautions. 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 1 hour, lab 5 hours. Prerequisite: Acceptance into Radiologic Technology Program and departmental permission. Corequisite: RAD 2113. Will not satisfy general education science requirements. (Fall)

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. Lecture 1 hour, Lab 5 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission. Will not satisfy general education science requirements. (Fall)

2123L RADIATION PHYSICS LAB 0 credit hours LAB: 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. Lecture 1 hour, Lab 5 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission. Corequisite: RAD 2123. Will not satisfy general education science requirements. (Fall)

2134 RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS I *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 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 1 hour, Lab 7.5 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission. Corequisite: RAD 2134L. Will not satisfy general education science requirements. (Fall)

2134L RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS I LAB *0 credit hours* LAB: 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 1 hour, Lab 7.5 hours. Prerequisite: Acceptance into Radiologic Technology Program and department permission. Corequisite: RAD 2134. Will not satisfy general education science requirements. (Fall)

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 and 330 contact hours of clinical training. 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. Clinical 22 hours. Prerequisite: RAD 2133. Will not satisfy general education science requirements. (Spring)

2214 PRINCIPLES OF EXPOSURE *4 credit hours* Content establishes a knowledge base in technical factors that govern the image production process. Lecture 4 hours. Prerequisite: RAD 2133. Will not satisfy general education science requirements. (Spring)

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 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 5 hours. Prerequisite: RAD 2133. Corequisite: RAD 2224L. Will not satisfy general education science requirements. (Spring)

2224L RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS II LAB *0 credit hours* LAB: 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 5 hours. Prerequisite: RAD 2133. Corequisite: RAD 2224. Will not satisfy general education science requirements. (Spring)

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 and a minimum of 165 contact hours of clinical training. 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. Clinical 11 hours. Prerequisite: RAD 2244. Will not satisfy general education science requirements. (Summer)

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 resources will provide students with clinical exposure to computed tomography. Lecture 1 hour. Prerequisite: RAD 2244. Will not satisfy general education science requirements. (Summer)

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 2.5 hours. Prerequisite: RAD 2244. Corequisite: RAD 2323L. Will not satisfy general education science requirements. (Summer)

2323L RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS III LAB 0 credit hours LAB: 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 2.5 hours. Prerequisite: RAD 2244. Corequisite: RAD 2323. Will not satisfy general education science requirements. (Summer)

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: RAD 2323. Will not satisfy general education science requirements. (Fall)

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 and includes a minimum of 330 contact hours of clinical training. 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. Clinical 22 hours. Prerequisite: RAD 2323. Will not satisfy general education science requirements. (Fall)

2422 DIGITAL IMAGE ACQUISITION AND DISPLAY 2 credit hours Content imparts an 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 2 hours. Prerequisite: RAD 2323. Will not satisfy general education science requirements. (Fall)

2434 RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS IV 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 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 3 hours, laboratory 1 hour. Prerequisite: RAD 2323. Corequisite: RAD 2434L. Will not satisfy general education science requirements. (Fall)

2434L RADIOGRAPHIC PROCEDURES AND IMAGE ANALYSIS IV LAB 0 credit hours LAB: 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 3 hours, laboratory 1 hour. Prerequisite: RAD 2323. Corequisite: RAD 2434. Will not satisfy general education science requirements. (Fall)

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 and includes a minimum of 247.5 contact hours of clinical training. 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. Clinical 16.5 hours. Prerequisite: RAD 2433. Will not satisfy general education science requirements. (Spring)

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: RAD 2433. Will not satisfy general education science requirements. (Spring)

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 2.5 hours. Prerequisite: RAD 2433. Corequisite: RAD 2253L. Will not satisfy general education science requirements. (Spring)

2523L PHARMACOLOGY AND VENIPUNCTURE LAB 0 credit hours LAB: 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: RAD 2433. Corequisite: RAD 2523. Will not satisfy general education science requirements. (Spring)

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: RAD 2433. Will not satisfy general education science requirements. (Spring)

READING (READ)

Education

0223 READING FUNDAMENTALS *Developmental course, no credit* This course is designed to improve the student's ability to read academic materials, 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.

RESPIRATORY CARE (RESP)

Agriculture, Biology, and Health Sciences

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. Will not satisfy general education science requirements. (Fall)

2113 RESPIRATORY MECHANICS *3 credit hours* Introduction to infection control procedures, sterilization of common equipment, gas laws, humidity and bland aerosol administration, cardiopulmonary resuscitation, and mock simulations of common respiratory care procedures. Lecture 3 hours, laboratory 2 hours. Prerequisite: Acceptance to the Respiratory Care Clinical Training Program and departmental permission. Corequisite: RESP 2113L. Will not satisfy general education science requirements. (Fall)

2113L RESPIRATORY MECHANICS LAB *0 credit hours* LAB: Introduction to infection control procedures, sterilization of common equipment, gas laws, humidity and bland aerosol administration, cardiopulmonary resuscitation, and mock simulations of common respiratory care procedures. Lecture 3 hours, laboratory 2 hours. Prerequisite: Acceptance to the Respiratory Care Clinical Training Program and departmental permission. Corequisite: RESP 2113. Will not satisfy general education science requirements. (Fall)

2123 RESPIRATORY THERAPY PROCEDURES I *3 credit hours* Introduction to respiratory therapy including physical assessment with chart review, medical gas therapy with delivery systems, lung expansion therapy, secretion clearance techniques, pulmonary function testing, and Therapy Driven Protocols. Lecture 2 hours, laboratory 2 hours. Pre-requisite: Acceptance into the Respiratory Care Clinical Training Program and departmental permission. Corequisite: RESP 2123L. Will not satisfy general education science requirements. (Fall)

2123L RESPIRATORY THERAPY PROCEDURES I LAB *0 credit hours* LAB: Introduction to respiratory therapy including physical assessment with chart review, medical gas therapy with delivery systems, lung expansion therapy, secretion clearance techniques, pulmonary function testing, and Therapy Driven Protocols. Lecture 2 hours, laboratory 2 hours. Pre-requisite: Acceptance into the Respiratory Care Clinical Training Program and departmental permission. Corequisite: RESP 2123. Will not satisfy general education science requirements. (Fall)

2133 CARDIOPULMONARY ANATOMY AND PHYSIOLOGY *3 credit hours* Introduction of the anatomy and physiology of the respiratory and circulatory systems, the concept of ventilation, the diffusion and transport of pulmonary gases, and acid-base balance. Lecture 3 hours. Prerequisites: Admission to the Respiratory Care Clinical Training Program and departmental permission. Will not satisfy general education science requirements. (Fall)

2143 RESPIRATORY PHARMACOLOGY *3 credit hours* Comprehensive and practical understanding of current information in respiratory pharmacology. Includes theoretical concepts of the physio-pharmacological functions of the lungs, heart, and kidneys applied to both

the chronic pulmonary disease patient and the intensive care patient. A wide range of classes of drugs is considered with emphasis on practical choices in individual situations and incorporating evidence-based practice guidelines. Lecture 3 hours. Prerequisites: Admission into the Respiratory Care Clinical Training Program and departmental permission. Will not satisfy general education science requirements. (Fall)

2153 RESPIRATORY PATHOLOGY *3 credit hours* The study of specific pulmonary, neuromuscular, cardiac, and respiratory-related diseases, covering the methods of assessment, clinical manifestation, radiologic imaging, diagnosis, treatment, and management. Lecture 3 hours. Prerequisites: Admission into the Respiratory Care Clinical Training Program and departmental permission. Will not satisfy general education science requirements. (Fall)

2161 RESPIRATORY CLINICAL PRACTICE I *1 credit hour* Respiratory procedures practiced with basic assessment and respiratory therapy modalities. Course includes 82.5 contact hours of clinical experience. Clinical practice is coordinated to cover adult and pediatric basic assessment, respiratory therapies, blood gas sampling techniques, electrocardiograms and basic life support skills. Clinical Practice/Practicum 12 hours. Prerequisites: Admission into the Respiratory Care Clinical Training Program and departmental permission. Will not satisfy general education science requirements. (Fall)

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: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Will not satisfy general education science requirements. (Spring)

2213 RESPIRATORY THERAPY PROCEDURES II *3 credit hours* Continuation of Respiratory Therapy Procedures I. Covers arterial and capillary blood gas sampling techniques and analysis, arterial line insertions, electrocardiograms, capnography, transcutaneous O₂/CO₂ monitoring, apnea monitoring, defibrillators, bronchial hygiene, airway management, endotracheal intubation and extubation, pulmonary rehabilitation and home care. Lecture 2 hours, laboratory 2 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Co-requisite: RESP 2213L. Will not satisfy general education science requirements. (Spring)

2213L RESPIRATORY THERAPY PROCEDURES II *3 credit hours* LAB: Continuation of Respiratory Therapy Procedures I. Covers arterial and capillary blood gas sampling techniques and analysis, arterial line insertions, electrocardiograms, capnography, transcutaneous O₂/CO₂ monitoring, apnea monitoring, defibrillators, bronchial hygiene, airway management, endotracheal

intubation and extubation, pulmonary rehabilitation and home care. Lecture 2 hours, laboratory 2 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Co-requisite: RESP 2213. Will not satisfy general education science requirements. (Spring)

2222 RESPIRATORY CLINICAL PRACTICE II *2 credit hours* Continuation of clinical experience practiced with basic assessment and respiratory therapy modalities. Course includes 165 contact hours of clinical experience. Clinical practice is coordinated to cover adult and pediatric basic assessment, respiratory therapies, blood gas sampling techniques, electrocardiograms, and basic life support skills. Clinical Practice/Practicum 11 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Will not satisfy general education science requirements (Spring).

2233 CRITICAL CARE *3 credit hours* Survey of procedures and principles of diagnosis and management critically ill patients, physical assessment, psychological aspects, fluid and electrolyte balance, clinical laboratory studies, nutrition, and hemodynamic monitoring. Lecture 3 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Will not satisfy general education science requirements. (Spring)

2242 PEDIATRIC RESPIRATORY CARE *2 credit hours* Introductory concepts of disease states specific to neonatal and pediatric patients including equipment and theory necessary for providing respiratory care, mechanical ventilation, evidence-based practice guidelines, and developmental outcomes. Lecture 2 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Will not satisfy general education science requirements. (Spring)

2253 MECHANICAL VENTILATION *3 credit hours* Principles of mechanical ventilation and psychological effects of positive pressure ventilation. Includes different types of ventilation, operating modes, initiation and monitoring of mechanical ventilation, interpreting waveforms, patient management, evidence-based guidelines, and weaning. Lecture 2 hours, laboratory 2 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Corequisite: RESP 2253L. Will not satisfy general education science requirements. (Spring)

2253L MECHANICAL VENTILATION LAB *0 credit hours* LAB: Principles of mechanical ventilation and psychological effects of positive pressure ventilation. Includes different types of ventilation, operating modes, initiation and monitoring of mechanical ventilation, interpreting waveforms, patient management, evidence-based guidelines, and weaning. Lecture 2 hours,

laboratory 2 hours. Prerequisites: RESP 2100, RESP 2113, RESP 2123, RESP 2133, RESP 2143, RESP 2153, and RESP 2161. Successful completion of program first semester. Corequisite: RESP 2253. Will not satisfy general education science requirements. (Spring)

2313 RESPIRATORY CLINICAL PRACTICE III *3 credit hours* Continuation of clinical experience with intensive care involvement. Course includes 247.5 contact hours of clinical experience. 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 31 hours. Prerequisites: RESP 2200, RESP 2213, RESP 2222, RESP 2233, RESP 2242, and RESP 2253. Successful completion of program second semester. Will not satisfy general education science requirements. (Summer)

2411 NBRC TEST PREPARATION *1 credit hour* A comprehensive overview of all concepts learned throughout the Respiratory Care program. This online course will review key concepts and prepare students to take the National Board of Respiratory Care's Therapist Multiple Choice Examination and Clinical Simulation Examination to obtain licensure required to practice as a Registered Respiratory Therapist. Comprehensive online mock exams will cover general patient care, bedside patient assessment, therapeutic procedures and modalities, mechanical ventilation, pathology, pulmonary function testing, special procedures, and respiratory calculations. Lecture, 1 hour. Admission into the Respiratory Care Clinical Training Program and departmental permission. Will not satisfy general education science requirements. (Fall)

2414 RESPIRATORY CLINICAL PRACTICE IV *4 credit hours* Continuation of clinical experience with intensive care involvement. Course includes 330 contact hours of clinical experience. 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 22 hours. Prerequisite: RESP 2313. Will not satisfy general education science requirements. (Fall)

ROMANIAN (ROMN)

Communication, English, and Foreign Languages

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)

Communication, English, and Foreign Languages

1113* BEGINNING RUSSIAN I 3 credit hours An introductory course in the language and culture of the Russian Federation. Lecture 3 hours. General Education, Humanities–Diversity.

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.

SOCIOLOGY (SOCI)

Social Sciences

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. (Fall, Spring)

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.

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. (Fall)

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. (Spring)

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. (Spring, Odd Years)

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. (Spring)

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: SOCI 1113, Junior standing, and Sociology major.

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 3113, SOCI 3133, and completed at least 18 credit hours of sociology coursework. (Spring, Even Years)

SOMALI (SMLI)

Communication, English, and Foreign Languages

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)

Communication, English, and Foreign Languages

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. (Fall)

1223* BEGINNING SPANISH II *3 credit hours* Continuation of SPAN 1113. Lecture 3 hours. Prerequisite: SPAN 1113 or equivalent. General Education, Humanities–Diversity. (Spring)

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. (Fall)

2223* INTERMEDIATE SPANISH II *3 credit hours* Continuation of SPAN 2113. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 2113. (Spring)

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.

SPECIAL EDUCATION (SPED)

Education

2103 INCLUSIVE ENVIRONMENTS: EDUCATING EXCEPTIONAL CHILDREN *3 credit hours* A study of disability conditions, interventions, and instruction in inclusive environment; implications of environmental and cultural characteristics of the child, family, and community; and collaborating with families and other professionals. Lecture 3 hours. (Spring)

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.

SPORTS AND EXERCISE SCIENCE (SES)

Sports and Exercise Science

2003* HEALTH *3 credit hours* Active process of becoming aware of and making choices that lead to improved health outcomes. Lecture 3 hours. General Education, Health and Wellness.

2013* WELLNESS *3 credit hours* Active process of becoming aware of and making choices that lead to improved exercise outcomes. A physical activity component is required. A medical release is required for students who may need accommodations due to a medical condition. Lecture 3 hours. General Education, Health and Wellness.

2023* NUTRITION *3 credit hours* Active process of becoming aware of and making choices that lead to improved dietary outcomes. Lecture 3 hours. General Education, Health and Wellness. (Fall, Spring)

2033 FIRST AID *3 credit hours* Respond to life-threatening emergencies in multiple populations and provide life-saving interventions until emergency medical services arrive. (Optional certification in First Aid, CPR and AED). Lecture 3 hours. (Fall, Spring)

2043 INTRODUCTION TO SPORTS AND EXERCISE SCIENCE *3 credit hours* Examine basic terms, current trends, career pathways and potential employment opportunities in the field. Lecture 3 hours. (Recommended for Freshman and Sophomore SES majors.) (Fall, Spring)

3003* SPORTS NUTRITION *3 credit hours* Examine energy needs for various levels of physical activity and effect of dietary intake on performance. Lecture 3 hours. Prerequisite: SES 2023. (Spring)

3013* APPLIED ANATOMY AND KINESIOLOGY *3 credit hours* Examine musculoskeletal anatomy as it applies to simple and complex motor tasks and proper execution of joint movement during common exercises. (May not be used as a Biology course.) Lecture 3 hours. (Fall, Spring)

3023 CARE AND PREVENTION OF ATHLETIC INJURIES *3 credit hours* Examine preventative measures and practice proper treatment of specific sports injuries resulting from activities in the home, recreational,

intramural and extramural settings. Lecture 3 hours. Prerequisite: SES 3013. (Fall, Spring)

3033* PHYSIOLOGY OF EXERCISE 3 credit hours Examine how the body, from a functional standpoint, responds, adjusts and adapts to exercise. Lecture 3 hours. Prerequisite: SES 3023. (Fall, Spring)

3043* BIOMECHANICS 3 credit hours Analyze how external forces interact with internal forces to control human motion. Lecture 3 hours. Prerequisite: SES 3013. (Spring)

3053 FACILITY MANAGEMENT 3 credit hours Examine principles of business that support the operation of physical activity programs. Lecture 3 hours. Prerequisite: SES 3023. (Fall)

3063* HEALTH AND BEHAVIOR CHANGE 3 credit hours Apply behavior modification strategies to help guide and support individuals in making sustainable lifestyle changes that lead to improved health outcomes. Lecture 3 hours. Prerequisite: SES 2013.

3073 RECREATION FOR SPECIAL POPULATIONS 3 credit hours Programming of recreational activities for special populations. Lecture 3 hours. Prerequisite: SES 2013.

3083 COMMUNITY RECREATION PROGRAMS 3 credit hours Examine supervisory role of various recreational programs with emphasis in leadership, program planning, budgeting, managerial techniques, and environmental awareness. Lecture 3 hours. Prerequisite: SES 2043.

3093* GENERAL MEDICAL CONDITIONS 3 credit hours Examine the pharmacological, behavioral and psychological effects of some of the most commonly used legal and illegal drugs in modern society. Lecture 3 hours. Prerequisite: SES 2003.

3103 LEADERSHIP AND COACHING 3 credit hours Develop individual skills in the practice of coaching as well as a broad understanding of leadership within the larger context of organizational performance and change. Lecture 3 hours. Prerequisite: SES 2043.

3113 EVENT PLANNING AND FUNDRAISING 3 credit hours Planning and management of special events. Overview of fundraising components and operation, as well as guidelines to implement and manage effective sports related events. Lecture 3 hours. Prerequisite: SES 2043.

3123* SPORT PSYCHOLOGY 3 credit hours Explore the psychological factors involved in sport and physical activity with an emphasis on performance enhancement. Lecture 3 hours. Prerequisite: SES 2003.

3131-3 SPECIAL STUDIES 1-3 credit hours Special studies courses, of one to three credits, that are designed to give variety to the present curriculum or educational activities under the direct supervision of a faculty member. Up to 12 hours of special studies courses may be applied to a student's program. (A special studies course may be repeated if a different topic is offered.) Independent study, 1-3 hours. Prerequisite: SES 3023.

3143 PERSONAL TRAINING 3 credit hours Examine training principles and develop appropriate exercise plan based on the goals, indications, contraindications, and physical evaluation of the individual. Lecture 3 hours. Prerequisite: SES 3033.

3153 STRENGTH TRAINING 3 credit hours Examine and apply the proper strength training and conditioning exercises for the athletic or sedentary populations. Lecture 3 hours. Prerequisite: SES 3033.

4003 MOTOR LEARNING 3 credit hours Examine variables that affect the learning processes associated with the acquisition and performance of motor skills. Lecture 3 hours. Prerequisite: SES 3043. (Fall)

4013 PHYSIOLOGY OF EXERCISE LAB 3 credit hours Apply practical skills and cutting-edge technologies to evaluate the effects of exercise and physical activity on health. Lecture 3 hours. Prerequisite: SES 3033. (Fall)

4023 EXERCISE PRESCRIPTION 3 credit hours Examine and apply principles used in exercise testing and prescription for normal healthy individuals and special populations. Lecture 3 hours. Prerequisite: SES 4013. (Spring)

4033 LEGAL ASPECTS 3 credit hours Examine legal and social policy issues most often encountered in sport and physical activity. Lecture 3 hours. Prerequisite: SES 3023. (Fall)

4043 RESEARCH METHODS 3 credit hours Analyze scientific literature and apply appropriate methods for reading, presenting, and interpreting data involved in research design. Lecture 3 hours. Prerequisite: SES 3043. (Spring)

4053 PRACTICUM 3 credit hours Intensive, senior-level work experience at an approved internship site while under the direction of a qualified site supervisor. Workshop and practicum component is required. Internship/Capstone 3 hours. Prerequisites: SES 2033 and completion of or concurrent enrollment in SES 4013 and SES 4023 and SES 4043. (Fall, Spring)

STATISTICS (STAT)

Mathematical Sciences

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 major 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. (Spring)

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. (Fall, Spring)

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.

SWAHILI (SWLI)

Communication, English, and Foreign Languages

1113* BEGINNING SWAHILI I *3 credit hours* An introductory course in the major language and the cultures of East Africa. Lecture 3 hours. General Education, Humanities–Diversity.

1223* BEGINNING SWAHILI II *3 credit hours* Continuation of SWLI 1113. Lecture 3 hours. Prerequisite: SWLI 1113 or equivalent. General Education, Humanities–Diversity.

TECHNOLOGY (TECH)

Computing and Technology

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: IT 3013; Prerequisite or Concurrent Enrollment: IT 4033 and IT 4143.

THEATRE ARTS (THTR)

Art, Music, and Theatre Arts

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Even Years)

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.

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. (Fall, Even Years)

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. (Fall, Even Years)

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.

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. (Spring, Even Years)

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. (Fall, Even Years)

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. (Spring, Odd Years)

3823* THEATRE AND DRAMA: THE 18th AND 19th 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. (Fall, Odd Years)

3833* THEATRE AND DRAMA: THE 20th AND 21st CENTURIES AND CHINA *3 credit hours* A study of the evolution of drama, theatre architecture, technical theatre, acting, and directing in the 20th and 21st

Centuries, including an overview of China. Lecture 3 hours. (Spring, Even Years)

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. (Fall)

TURKISH (TURK)

Communication, English, and Foreign Languages

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.

UNIVERSITY (UNIV)

Teaching and Learning

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.

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; and 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.

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.

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.

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. (Spring)

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.

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.

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. (Spring)

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: Departmental Permission.

*Liberal arts and sciences course.

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