

# Sul Ross State University

MEMBER THE TEXAS STATE UNIVERSITY SYSTEM™

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Undergraduate and Graduate Catalog



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## **STATEMENT ON EQUAL EDUCATIONAL OPPORTUNITY**

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored by Sul Ross State University, on any basis prohibited by applicable law, including but not limited to, race, color, national origin, religion, sex, age, disability, sexual orientation, or gender identity.

## **STUDENT RESPONSIBILITY STATEMENT**

All students are responsible for knowing the academic regulations stated in this catalog; unfamiliarity does not constitute a valid reason for failure to fulfill them.

## **ACCREDITATIONS**

Sul Ross State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award Associate's, Bachelor's, and Master's Degrees. Contact the Commission on Colleges at 1866 Southern Lane Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Sul Ross State University. The Teacher Education program offered at Sul Ross State University is approved by the Texas Education Agency (TEA). The Nursing Program offered at Uvalde, Eagle Pass, and Del Rio is accredited by the Commission of Collegiate Nursing Education (CCNE).

## **UNIVERSITY MISSION**

### **Who We Are**

Sul Ross State University is a public, comprehensive. Master's degree granting, multi-campus university, providing on-site and distance education in the Big Bend and the US-Mexico border regions of Texas.

### **Vision**

Sul Ross State University seeks to be a national and international leader in achieving excellence among universities in the areas of Education, Research, Social Mobility, Service, Affordability, and Shared Governance.

### **Mission**

Rooted in the distinctive surroundings and history of the Big Bend and the US-Mexico border regions of Texas, Sul Ross State University provides accessible, comprehensive, and life changing education through high quality teaching, research, cultural awareness, creativity, and service.

### **Values**

- Excellence
- Ethics and Integrity
- Diversity and Inclusiveness
- Growth and Exploration

## **MEMBERSHIPS**

Agricultural Consortium of Texas  
American Association of Collegiate Registrars and Admissions Officers  
American Association of Hispanics in Higher Education, Inc.  
American Association of State and Colleges of Agriculture and Renewable Resources  
American Association of State Colleges and Universities American Council on Education  
American Library Association  
Association for the Advancement of Sustainability in Higher Education  
American Southwest Conference  
Association of Texas Graduate Schools  
Council for Higher Education Accreditation  
Council of Public University Presidents and Chancellors  
Hispanic Association of Colleges and Universities  
LEAP Texas  
National Association of College and University Business Officers  
National Association of Student Financial Aid Administrators  
National Collegiate Athletic Association  
National Intercollegiate Rodeo Association  
North American Colleges and Teachers of Agriculture (NACTA)  
Non-Land-Grant Agriculture and Renewable Resource Universities (NARRU)  
Texas Library Association  
Texas Space Grant Consortium

## **NOTICE**

The policies, regulations, procedures, and fees in this catalog are subject to change without prior notice, if necessary, to keep Sul Ross State University policies in compliance with State and Federal laws and rules and regulations of the Board of Regents, Texas State University System. The University reserves the right to change curricula, rules, fees, admission requirements, and other requirements without notice. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, faculty member, or any other person and Sul Ross State University.

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# OFFICIAL ACADEMIC CALENDAR 2021 – 2022

## FALL 2021

### August 2, Monday

- College deans to submit recommendations for Associate Graduate Faculty to the Graduate Dean.
- Curriculum changes approved in the Spring are effective Fall 2021; update individual web pages

### August 12-13, Thursday & Friday

- Texas State University System Board of Regents meeting at Sul Ross State University in Alpine, TX

### August 20, Friday

- Payment deadline for students who pre-registered, 4 p.m.
- New student orientation for new and transfer students; 4 p.m.
- Regular registration ends, 7 p.m.

### August 21, Saturday

- Lobo Days for new and transfer students

### August 22, Sunday

- New Student Convocation, 7 p.m. Marshall Auditorium

### August 23, Monday

- Late registration and schedule changes begin, 7 a.m.
- Newcomer's Luncheon, 12:00 p.m.
- First day of classes, 16-week and 1<sup>st</sup> 8-week term
- College and departmental meetings TBA by college/departments
- Faculty and Staff Meeting, 3:30 p.m., Location TBD
- Residence Halls: 5 p.m. deadline to Move-In for Fall housing assignment

### August 24, Tuesday

- Last day for students to register in Education block courses

### August 25, Wednesday

- Provost contacts the Promotion and Tenure Review Council about the number of promotions available

### August 26, Thursday

- Last day for late registration and schedule changes

### August 27, Friday

- Submit thesis to committee chair

### August 31, Tuesday

- Last day to drop 1<sup>st</sup> 8-week course without creating an academic record
- Core Curriculum applications, Curriculum Change Request form- Faculty member to department chair

### September 6, Monday

- Labor Day holiday, no classes

### September 8, Wednesday

- Twelfth class day, 16-week term
- Last day to drop a 16-week term course without creating an academic record

**September 10, Friday**

- Core Curriculum applications, Curriculum Change Request form and Degree Plan Revisions - department chair to college dean
- Spring schedules due to college deans

**September 17, Friday**

- Last day for students enrolled in Education block courses to drop a course and receive a 'W'
- Spring schedules due to the University Registrar
- Submit thesis to committee members

**September 20, Monday**

- Core Curriculum applications, Curriculum Change Request form and Degree Plan Revisions- college dean to University Curriculum Committee chair

**September 24, Friday**

- Last day for students enrolled in 1<sup>st</sup> 8-week courses to drop a course and receive a 'W'

**October 2021**

- Core Curriculum applications, Curriculum Change Request form and Degree Plan Revisions – University Curriculum Committee review
- CATALOG: Dept. page contents reviewed and edited by the dean's office (October 1<sup>st</sup> thru 31<sup>st</sup>)

**October 8, Friday**

- Tenure and promotion review: Vitae and dossier to department chair. Dossier to be forwarded to departmental evaluation committee

**October 15, Friday**

- Final exams, 1<sup>st</sup> 8-week term

**October 18, Monday**

- Final grades for 1<sup>st</sup> 8-week term students submitted by noon
- Mid-term, 16-week term
- Classes begin, 2<sup>nd</sup> 8-week term

**October 20, Wednesday**

- Last day for schedule changes, 2<sup>nd</sup> 8-week term

**October 25, Monday**

- Last day to drop 2<sup>nd</sup> 8-week course without creating an academic record

**October 29, Friday**

- Submit signed hard copy and electronic copy of thesis to the Thesis Coordinator in the College of Graduate Studies

**November 9, Tuesday**

- Core Curriculum applications, Curriculum Change Request form and Degree Plan Revisions – University Curriculum Committee report to Faculty Assembly (Alpine) or Faculty Senate (RGC)
- Last day for instructor initiated drop for excessive absences. Must reach the college dean's office by 4 p.m. November 10th

**November 12, Friday**

- Last day to withdraw from the 16-week course/term with a grade of 'W'. Drops must be processed and in the University Registrar's office by 4 p.m.
- Last day to apply for May graduation without a late fee
- Core Curriculum applications, Curriculum Change Request form and Degree Plan Revisions – University Curriculum Committee approved documents to the Provost
- Tenure and promotion review: applications, dossiers and recommendations from the Evaluation Committee chairperson to the college dean

**November 15, Monday**

- Academic Evaluation: Completion of the Student Appraisal of the Faculty (Form FE-2) for Fall 2021 (to be completed 11/15-12/02)

**November 18-19, Thursday & Friday**

- Texas State University System Board of Regents meeting at Sam Houston State in Huntsville, TX

**November 22, Monday**

- Last day for students enrolled in 2<sup>nd</sup> 8-week courses to drop a course and receive a 'W'

**November 24-26, Wednesday - Friday**

- Thanksgiving Day holiday (Begins after the last scheduled class meets on Tuesday, November 23)

**November 26, Friday**

- Submit PDF copy of thesis to ProQuest for review and online submission

**November 30, Tuesday**

- College dean to submit recommendation for associate graduate faculty to the dean of graduate studies

**December 2021**

- Core Curriculum applications, Curriculum Change Request form – Provost to the President

**December 1, Wednesday**

- Last class day before finals, 16 week term
- Second year non-tenured faculty to be notified if appointment will expire by end of current year

**December 2, Thursday**

- Dead Day, 16-week term

**December 3, 6-8, Friday, Monday-Wednesday**

- Final Examinations, end of term, 16-week term

**December 8, Wednesday**

- Final Examinations, end of term, 2<sup>nd</sup> 8-week term

**December 9, Thursday**

- Final grades for graduating students due; grades must be submitted by noon

**December 10, Friday**

- Fall Commencement, Pete P. Gallego Center, 5:30 p.m.
- Residence Halls: Close at noon for all non-graduates or extended residents
- Tenure and promotion review: applications, dossiers and recommendations from the college dean to the College Review Committee

**December 11, Saturday**

- Residence Halls: Close at noon for all residents; except director approvals
- Fall Commencement Sul Ross – Location TBD, 3:30 pm

**December 13, Monday**

- Final grades for continuing students due; grades must be submitted by noon

**SPRING 2022****January 7, Friday**

- Payment deadline for students who pre-registered, 4 p.m.
- Residence Halls: New resident Move-In, 10 a.m. - 4 p.m.
- Last day for students to register in Education block courses

**January 8-9, Saturday & Sunday**

- Residence Halls: Move-In 10 a.m. - 4 p.m.

**January 9, Sunday**

- Regular registration ends

**January 10, Monday**

- First day of classes, 16-week and 1<sup>st</sup> 8-week term
- Newcomer's Luncheon, 12:00pm
- College and departmental meetings TBA by college/departments
- Faculty and Staff Meeting, 3:30 p.m. Location TBD
- Late registration and schedule changes begin
- Residence Halls: 5 p.m. deadline to Move-In for Spring housing assignment

**January 13, Thursday**

- Last day for late registration and schedule changes

**January 17, Monday**

- Martin Luther King, Jr. holiday (no classes)

**January 18, Tuesday**

- Last day to drop 1<sup>st</sup> 8-week course without creating an academic record

**January 26, Wednesday**

- Twelfth class day, 16-week term
- Last day to drop a 16-week term course without creating an academic record

**January 28, Friday**

- Summer and Fall class schedules due to the college deans

**February 2022**

- Curriculum Changes - President to the Texas State University System Board of Regents Meeting

**February 3, Thursday**

- Last day for students enrolled in Education block courses to drop a course and receive a 'W'
- Academic Evaluation: Annual Report of Teaching/Job Performance, Scholarly/Artistic Activities; Form FE-3 submitted to chairs

**February 4, Friday**

- Summer and Fall class schedules to the University Registrar

**February 11, Friday**

- Annual Report on Teaching/Job Performance; Form FE-3 submitted to the college deans
- Tenure and promotion review: Applications, dossiers and recommendations from the college dean and from College Review Committee to the Promotion and Tenure Council
- Last day for students enrolled in 1<sup>st</sup> 8-week courses to drop a course and receive a 'W'
- Submit thesis to committee members

**February 17-18, Thursday & Friday**

- Texas State University system Board of Regents meeting at Lamar University in Beaumont, TX

**March 2022**

- Curriculum Changes: Approved Changes to THECB; University Registrar implements changes into Banner; changes effective Fall 2022
- CATALOG: fall 2022-spring 2023 made available online

**March 4, Friday**

- Tenure and promotion review: Applications, dossiers and recommendations from the Promotion and Tenure Council to the Joint Council on Faculty Affairs
- Annual Report on Teaching/Job Performance; submitted to the EVP and Provost for Academic Affairs
- Final exams, 1<sup>st</sup> 8-week term

**March 7-11, Monday – Friday**

- Spring Break. No Classes.

**March 14, Monday**

- Final grades for 1<sup>st</sup> 8-week term students submitted by noon
- Mid Semester, 16-week term
- Classes begin, 2<sup>nd</sup> 8-week term

**March 16, Wednesday**

- Last day for schedule changes, 2<sup>nd</sup> 8-week term

**March 21, Monday**

- Last day to drop 2<sup>nd</sup> 8-week course without creating an academic record

**March 28, Monday**

- Last day for instructor initiated drop for excessive absences. Must reach the college dean's office by 4p.m. on March 28th
- Last day to withdraw from the 16 week course/term with grade of 'W'. Drops must be processed and in the University Registrar's Office by 4 p.m.
- Last day to apply for August graduation without a late fee
- Last day to apply for December graduation without a late fee

**April 1, Friday**

- Tenure and promotion review: Applications, dossiers and recommendations from the EVP and Provost for Academic Affairs to the President (recommendations will be included in the May Texas State University System Board of Regents meeting)

**April 4, Monday**

- Academic Evaluation: Completion of Student Appraisal of Faculty (Form FE-2) for Spring (to be completed 4/4-5/6)

**April 8, Friday**

- Tenure and promotion review: Applications, dossiers and recommendations from the EVP and Provost for Academic Affairs to the President (recommendations will be included in the May Texas State University System Board of Regents meeting)

**April 11, Monday**

- Last day for students enrolled in 2<sup>nd</sup> 8-week courses to drop a course and receive a 'W'

**April 14, Thursday**

- Submit electronic copy of revised thesis to the thesis coordinator in the College of Graduate Studies

**April 15, Friday**

- Good Friday holiday (no classes)

**April 18, Monday**

- Honors Convocation, 7 p.m., Marshall Auditorium

**April 27, Wednesday**

- Last class day before finals, 16-week term

**April 28, Thursday**

- Dead day, 16-week term

**April 29, May 2-4, Friday, Monday - Wednesday**

- Final Examinations - end of term, 16-week term

**May 4, Wednesday**

- Final Examinations - end of term, 2<sup>nd</sup> 8-week term

**May 6, Friday**

- Final grades for graduating students due; grades must be submitted by noon
- Spring Commencement, Pete P. Gallego Center, 5:30 p.m.
- Residence Halls: Close at noon for non-graduates or extended residents

**May 7, Saturday**

- Residence Halls: Close at noon for everyone except director approvals
- Spring Commencement Location – TBD, 3:30 p.m.

**May 9, Monday**

- Final grades for continuing students due; grades must be submitted by noon

**May 16, Monday**

- Submit thesis to committee chair

**May 19-20, Thursday & Friday**

- Texas State University System Board of Regents meeting at Sam Houston State in Huntsville, TX

**SUMMER 2022****May 31, Tuesday**

- Residence Halls: students check in to residential halls, full term and session I
- Last day to register without a late fee, full term and session I
- Submit thesis to committee members

**June 1, Wednesday**

- First day of classes, full term and session I
- Late registration and schedule changes begins, full term and session I

**June 3, Friday**

Last day for late registration and schedule changes, full term and session I

**June 6, Monday**

- Fourth class day, session I (census)

**June 16, Thursday**

- 12<sup>th</sup> class day, full term (census)

**June 20, Monday**

- Mid-term, session I
- Last day for instructor initiated drop for excessive absences (session I). Must reach the college dean's office by 4 p.m. on June 20th

**June 24, Friday**

- Last day to drop a course with a 'W'. Drops must be processed and in the University Registrar's office by 4 p.m.

**June 28, Tuesday**

- Submit signed hard copy and electronic copy of thesis to the Thesis Coordinator in the College of Graduate Studies

**July 4, Monday**

- Independence Day holiday (no classes)

**July 5, Tuesday**

- Final Examinations, end of term, session I
- Mid-term, full term
- Session II students check in to residential halls
- Last day to register without a late fee, session II

**July 6, Wednesday**

- First day of classes, session II
- Late registration and schedule changes begins, session II
- Session I students check out of residential halls
- Final grades are due; grades must be submitted by noon, session I

**July 8, Friday**

- Last day for late registration and schedule changes, session II

**July 11, Monday**

- Fourth class day, session II (census)
- Last day for instructor initiated drops for excessive absences (full term). Must reach the college dean's office by 4 p.m. on July 11th

**July 19, Tuesday**

- Submit electronic copy of revised thesis to the Thesis Coordinator in the College of Graduate Studies

**July 21, Thursday**

- Last day to drop a full term course with a 'W'. Drops must be processed and in the University Registrar's office by 4 p.m.

**July 25, Monday**

- Mid-term, session II
- Last day for instructor initiated absences (session II). Must reach the college dean's office by 4 p.m. on July 25th



**July 26, Tuesday**

- Submit PDF copy of thesis to ProQuest for review and online submission

**July 29, Friday**

- Last day to drop a session II course with a 'W'. Drops must be processed and in the University Registrar's office by 4 p.m.

**August 8, Monday**

- Final Examinations, end of term, full term and session II

**August 9, Tuesday**

- Final grades for graduating students due; grades must be submitted by noon, full term and session II
- Full term and session II students check out of residential halls, by noon

**August 11-12, Thursday & Friday**

Texas State University System Board of Regents meeting at Texas State University System in Austin, TX

## BOARD OF REGENTS

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Bonnie Warnock, Ph.D. ....	Dean College of Agricultural, Life & Physical Sciences

# UNDERGRADUATE ACADEMIC REGULATIONS

## ACADEMIC ADVISING

It is the responsibility of the student to plan, enroll, and successfully complete the courses as designated in their Program of Study of their Catalog Year. Upon admission to the University, an Academic Advisor from the Academic Support Center is assigned to each student to help them plan their Program of Study and approve course selections. Academic advising is perhaps the most important service provided to students by the University. Careful, professional advisement can help entering students begin their academic coursework properly, make systematic progress toward fulfilling requirements for a degree as they progress from semester to semester, ensure they will be eligible for graduation upon satisfactory completion of the requirements, and assist students in making career choices.

## ACADEMIC SUPPORT CENTER (ALPINE CAMPUS)

The Academic Support Center (ASC) has been established to help meet the needs of first- and second-year students at the University. The Academic Support Center is the advising center for all new students from their first semester through their third semester.

Academic Support Center professional advisors are responsible for advising all first time freshmen, transfer students under 30 hours, undeclared majors, and Texas Success Initiative (TSI) non-compliant students. The objective of the professional advisor is to get the student started on their way through the Core Curriculum. Students must complete 12-18 hours of core courses their first year at SRSU. The Academic Support Center Advisor will advise students through their third long semester at which time the student will be transitioned to their major department faculty advisor.

Student Type	First Semester	Second Semester	Third Semester	Transition to Faculty	Fourth Semester
Incoming Freshman	ASC	ASC (students will be encouraged to meet with their faculty advisor after they have registered in classes to begin the transition)	ASC	Registration for next semester	Faculty Advisor
Transfer under 30 hours (not at risk)	ASC	30 hours or more – faculty advisor			
TSI Non-Compliant	ASC until compliant and move to faculty advisor the semester after they became compliant				
Undeclared	ASC until student declares major				
Transfer over 30 hours	Faculty advisor				

## ACADEMIC HONESTY

The University expects all students to engage in all academic pursuits in a manner beyond reproach and to maintain complete honesty and integrity in academic experiences both in and out of the classroom. The University may initiate disciplinary proceedings against a student accused of any form of academic dishonesty, including but not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials.

Academic Dishonesty includes:

1. Copying from another student's test paper, laboratory report, other report, or computer files, data listings, and/or programs, or allowing another student to copy from same.
2. Using, during a test, materials not authorized by the person giving the test.
3. Collaborating, without authorization, with another person during an examination or in preparing academic work.
4. Knowingly, and without authorization, using, buying, selling, stealing, transporting, soliciting, copying, or possessing, in whole or in part, the contents of a non-administered test.
5. Substituting for another student; permitting any other person, or otherwise assisting any other person to substitute for oneself or for another student in the taking of an examination or test or the preparation of academic work to be submitted for academic credit.
6. Bribing another person to obtain a non-administered test or information about a non-administered test.
7. Purchasing or otherwise acquiring and submitting as one's own work any research paper or other writing assignment prepared by an individual or firm. This section does not apply to the typing of a rough and/or final version of an assignment by a professional typist.
8. "Plagiarism" means the appropriation and the unacknowledged incorporation of another's work or idea in one's own written work offered for credit.
9. "Collusion" means the unauthorized collaboration with another person in preparing written work offered for credit.
10. "Abuse of research materials" means the mutilation, destruction, concealment, theft, or alteration of materials provided to assist students in the mastery of course materials.
11. "Academic work" means the preparation of an essay, dissertation, thesis, report, problem, assignment, or other project that the student submits as a course requirement or for a grade.
12. "Falsification of Data" means the representation, claim, or use of research, data, statistics, records, files, results, or information that is falsified, fabricated, fraudulently altered, or otherwise misappropriated or misrepresented.

All academic dishonesty cases may be first considered and reviewed by the faculty member. If the faculty member believes that an academic penalty is necessary, he/she may assign a penalty, but must notify the student of his/her right to appeal to the department chair, the College Dean (Alpine) or Associate Provost/Dean (RGC), and eventually to the Executive Vice President and Provost before the imposition of the penalty. At each step in the process, the student shall be entitled to written notice of the offense and/or the administrative decision, an opportunity to respond, and an impartial disposition as to the merits of his/her case. The decision of the Executive Vice President and Provost shall be final.

In the case of flagrant or repeated violations, the Provost may refer the matter to the Dean of Students for further disciplinary action. No disciplinary action shall become effective against the student until the student has received procedural due process except as provided under Interim Disciplinary Action.

## ACADEMIC HONORS

### Dean's List

At the end of each fall and spring semester, a list is published of all undergraduate students who earned grade point average of at least 3.3 on twelve or more semester hours of college level course work taken that semester. No graduate hours are included in determining the grade point average.

### Who's Who Among Students in American Colleges and Universities

Each year, Sul Ross State University is invited to submit nominees for inclusion in Who's Who Among Students in American Colleges and Universities, a comprehensive directory of outstanding American college students. Selection is based on their accomplishments, personality, ability for leadership, and participation in activities. Students are nominated by faculty, peers, or self and must have a cumulative grade point average of 3.0 for consideration. The selection is made by a faculty/student committee.

### National Honor Societies

Honor societies recognize and encourage high academic scholarship. Selection to an honor society is a prestigious distinction of outstanding accomplishment.

Students must qualify for and be accepted into honor societies. Membership is usually based on academic achievement, character, and leadership qualities.

**ALPHA CHI** – The purpose of this honor society is the stimulation, development, and recognition of scholarship. The members are chosen each year from the top ranking 10 percent of the junior and senior classes. A 3.3 GPA or above is required.

**ALPHA PHI SIGMA** – This nationally-recognized honor society acknowledges academic excellence shown by undergraduate and graduate students in the criminal justice sciences in order to make the Criminal Justice System and its practitioners more effective and ethical. Undergraduate student members must have completed three full semesters or equivalent with a minimum GPA of 3.0 overall and 3.2 GPA in criminal justice fields. Graduate student members must be enrolled at a master's or doctorate level in Criminal Justice and carry a minimum GPA of 3.4 in criminal justice courses.

**ALPHA PSI OMEGA** – This organization is a chapter of the national dramatic fraternity Alpha Psi Omega. It is limited to those who have done outstanding work in dramatics.

**BETA BETA BETA** – Membership in the Epsilon Omega Chapter of Beta Beta Beta Biological Honor Society is limited to those students who have completed at least three semesters and have a grade point average of 3.0 in biological science courses. Tri Beta is an affiliate of the American Association for the Advancement of Science and the American Institute of Biological Sciences.

**DELTA MU DELTA** – is a national honor society in business administration for business majors who have completed at least half of degree requirements with a minimum 3.25 cumulative grade point average for undergraduates and a 3.6 cumulative grade point average for graduate students, are in the top 20% of their class, and in good standing.

**DELTA TAU ALPHA** – An affiliate of the national agriculture honor society, the Sul Ross chapter promotes and recognizes high standards of scholarship, leadership, and character among agricultural students. An overall standing within the top 35% of the class with completion of 45 hours is required.

**KAPPA DELTA PI** – An international honor society in education. Dedicated to promoting excellence in/and recognizing outstanding contributions to education. An overall GPA of 3.0 is required.

**KAPPA PI** – Membership in this international honorary art fraternity is limited to students who have completed a minimum of 12 semester hours in art courses and have a 3.0 minimum GPA in those classes. An overall GPA of 2.0 is also required. Scholarships are awarded annually from the international organization.

**LAMBDA PI ETA** – The official honor society of the National Communication Association, the Xi Epsilon chapter was

established in Sul Ross in 2002. To be eligible for membership, a student must have completed 60 semester credit hours with at least twelve semester credit hours in communication and maintain a 3.0 grade point average with a 3.2 grade point average in communication.

**PHI ALPHA THETA** – An international honor society in history, first organized in 1921, Lambda Theta Chapter was installed at Sul Ross in 1966. To be eligible for membership, a student must maintain a high grade point average (3.0) in his or her studies, particularly in history, and a 3.1 GPA is required in the major field. Its purpose is to bring students of history together, both intellectually and socially, and to encourage and assist historical research and publication by its members in a variety of ways.

**PHI ETA SIGMA** – The Sachems Chapter of Phi Eta Sigma National Honor Society was established in 1991 at Sul Ross State University. The name Sachems was chosen to continue the rich traditions of this venerable local society which was founded at Sul Ross in 1921. This honor society is for outstanding freshman students.

**PHI SIGMA IOTA** – Phi Sigma Iota is an international foreign language honor society whose membership is open to those who have academically distinguished themselves in the study of one or more foreign languages.

**PI SIGMA ALPHA** – Membership in the Omicron Phi Chapter of the national political science honor society is limited to students in the top one-third of the university community who have completed a minimum of 12 semester hours in political science with a minimum GPA of 3.0. The purpose of Pi Sigma Alpha is to promote political science inquiry.

**PSI CHI** – International honor society in psychology. Membership is limited to students who have achieved second semester sophomore status or above, are majoring or minoring in psychology, have completed a minimum of 12 semester credit hours in psychology, and have achieved a minimum GPA of 3.00 overall and 3.00 within their psychology courses. The purpose of PSI CHI is to recognize and promote excellence in the science and application of psychology.

**SIGMA DELTA PI** – Membership in Sigma Delta Pi, an international honor society for students of Spanish, is by invitation, based upon the overall grade point average, and performance in Spanish courses.

**SIGMA GAMMA EPSILON** – A national honor society for the earth sciences, the local Delta Rho Chapter promotes the academic and scientific advancement of its members by sponsoring guest speakers, field trips, and other related activities. To be eligible, a student must have completed 12 semester credit hours in Earth Science work. A GPA of 3.0 must be maintained in all studies. Upon meeting the above requirements, membership is by invitation.

**SIGMA TAU DELTA** – A national English honorary society, Sigma Tau Delta encourages study and creative efforts in the field of English literature and language. Men and women students enrolled for advanced English courses are eligible for full membership provided they have earned a 3.0 average in English.

## ACADEMIC STANDING

### General

Scholastic regulations embody the academic standards of a University. The application of the following regulations is directed toward upholding the standards of SRSU – specifically, to impose the requirement of satisfactory academic progress. The academic regulations set forth the conditions for Academic Good Standing, Academic Probation, and Academic Dismissal. These regulations are intended to be consistent with the following objectives:

1. To indicate to the student, at an early date and with regularity, that achievement below the standards required for graduation is regarded as unsatisfactory;
2. To allow the first-time freshman the opportunity to remain a student until he/she has attempted two semesters;
3. To give the student who performs poorly a warning which may prompt him or her to seek timely help from instructors, counselors, or other appropriate sources;
4. To provide the student whose record shows that ultimate success in the University is in doubt with a trial period to prove that he/she is able to make reasonable academic progress;
5. To prevent the student who lacks the required motivation or maturity from building a deficiency of quality points so great that it cannot later be overcome; and
6. To state the standards and the consequent results of inadequate scholastic performance clearly enough that students, parents, faculty, and administrators can know the academic action (if any) which would follow from a particular academic record.

Students' academic records are reviewed each semester. A student's Cumulative Grade Point Average determines their Academic Standing at the end of each semester.

A cumulative grade point average of 2.0 ("C") must be maintained for an undergraduate student to remain in good standing academically. Should a student drop to below a 2.0 grade point average or fail to make satisfactory progress, the student will be subject to probation, suspension, or dismissal in accordance with the Grade Point Average Requirement Table.

### Grade-Point Average Requirement Table

Classification	Cumulative GPA for Scholastic Probation less than	Cumulative GPA for Scholastic Dismissal (Applied only to those on Scholastic Probation) less than
Freshman (0-29 earned hrs.)	2.00	1.25
Sophomore (30-59 earned hrs.)	2.00	1.50
Junior (60-89 earned hrs.)	2.00	1.75
Senior (90+ earned hrs.)	2.00	2.00



## **Academic Good Standing**

It is expected that all undergraduate students should maintain a Cumulative Grade Point Average of at least 2.0 on all work attempted at SRSU. The University will, regardless of term GPA, certify a student to be in Academic Good Standing as long as that student has a Cumulative Grade Point Average of 2.0 or higher.

## **Academic/Scholastic Probation – General**

A student who does not meet University standards for Academic Good Standing will be placed on Academic Probation. The purpose of Academic/Scholastic Probation is to provide students who are experiencing academic difficulties with intentional support and supervision to achieve success and gain Academic Good Standing.

A student will be placed on Academic Probation when their Cumulative Grade Point Average falls below a 2.0. The CGPA is based on cumulative hours grade points earned on all courses taken for which a grade of “A”, “B”, “C”, “D”, “F/FX/F0” is recorded.

Developmental courses (numbered 0100-0999; ED B100, ENG B100, EMATH B100) are courses intended for students who may lack the necessary skills for entering collegiate level courses. These courses are not considered in determining academic standing. Since these courses are pre-collegiate level, they shall not be used to satisfy any requirement for graduation. These courses are not used for computation of cumulative grade point average for graduation, determination of class standing, eligibility for the Dean’s List, or for eligibility for graduation with honors.

## **Academic Suspension**

First Suspension: Students will not be allowed to enroll of one long semester in the term following Academic/Scholastic Probation in which the Academic Contract for Success is not met.

Second Suspension: Students will not be allowed to enroll for two long semesters following Academic/Scholastic Probation in which the Academic Contract for Success is not met.

Third Suspension: Students will not be allowed to enroll for three calendar years following Academic/Scholastic Probation in which the Academic Contract for Success is not met.

Students who have been placed on academic probation or suspension by Sul Ross State University will be permitted to enroll during the summer terms to repeat courses and/or to endeavor to raise their cumulative grade point average.

Students will be notified by email when they are placed on probation and by letter and email when suspended. The official Sul Ross e-mail will be used for electronic notification; the local address will be used preferentially for notification by letter. If no valid local address exists, the permanent address will be used.

## **Appeals for Academic Suspension**

A student who has been placed on academic suspension may appeal in writing for reinstatement. The letter should be addressed to the Undergraduate Academic Appeals Committee in care of the Center for Enrollment Services in Alpine or the Office of Admissions and Records for Del Rio, Eagle Pass, and Uvalde, and received one week prior to the first day of registration of the subsequent term. The committee will consider documented extenuating circumstances affecting the student’s previous academic performance, and whether, in their judgment, the student has a reasonable chance of achieving desired educational goals. If the student is reinstated, the Committee may impose certain conditions regarding courses, course load limits counseling, etc. If reinstatement is allowed, the suspension will appear on the student’s permanent record. If the committee denies reinstatement, the student may then appeal in writing to the Executive Vice President and Provost for Academic Affairs. Students who are suspended and who register for enrollment at the University do so at their own risk. Monies paid for fees and tuition are subject to the refund regulations as stated in this catalog.



## **ACADEMIC YEAR**

The academic year of the University consists of a long session and a summer session. The long session is divided into the fall semester and the spring semester. Each semester consists of fifteen weeks of classes and one week of final examinations. Within each fall and spring semester are courses taught in the first eight weeks only and the second eight weeks only. The summer session is a compressed semester of approximately 10 – 11 weeks (depending on the Julian calendar) divided into two short sessions, each five to six weeks in length.

## **ADVISING HOLDS**

All undergraduate students are required to meet with their academic advisors for scheduling prior to the start of each new semester. Students must meet with their academic advisor to complete any registration process.

## **ADVISING – PRE-PROFESSIONAL PROGRAMS**

Students who intend to pursue their education in the professional fields listed below after they complete a degree or a portion of the professional requirements at Sul Ross State University should seek the advice and counsel of the advisor indicated.

Allied Health Areas: Medicine, Dentistry, Dental Hygiene, Pharmacy,	
Chiropractic, Medical Technology, Optometry.....	Christopher Ritzi (Biology)
Engineering .....	Angela M. Brown (Mathematics)
Physical Therapy .....	Christopher Ritzi (Biology)
Veterinary Medicine .....	Jamie Boyd (Animal Science)

## **APPEALS – STUDENT (GENERAL)**

To meet the requirements of the Southern Association of Colleges and Schools Commission on Colleges accreditation and to provide for continuing academic program development and evaluation, the university must assess academic programs on the basis of student learning outcomes. To assess such outcomes, students may be required to take additional examinations, participate in surveys, and/or provide samples of their work throughout their academic career.

## **ATTENDANCE REGULATIONS**

### **Students**

All students are expected to regularly and punctually attend classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing and/or financial aid. Students are responsible for the effect absences have on all forms of evaluating course performance. The student is responsible for arranging the allowed make-up of any missed work.

### **Faculty**

Faculty are required to state, in writing, their expectations regarding class attendance in the syllabus. Faculty are expected to work with students to allow for completion of classwork and assignments if the student's absence results from his/her required participation in a University-sponsored activity provided that, prior to the absence, the student makes arrangement to complete all missed work. Students are usually allowed to make up work and/or tests missed because of serious illness, accident, or death in the immediate family. Faculty are required to make accommodations when specified by an ADA Letter, whether the disability is permanent or temporary.

## CATALOG YEAR

### General

The maximal period of time for which the provisions of any Catalog may be considered valid is six years. Students who began a degree program six or more years prior to the date of their anticipated graduation must consult their academic dean to determine which Catalog must be followed.

The University will make a reasonable effort to honor the requirements in the student's Catalog Year. However, because courses and Programs of Study are sometimes changed, the university shall make the final determination of whether or not degree requirements are satisfied.

### Catalog Year for degree-seeking students

To receive a degree from Sul Ross State University, a student must complete all requirements for the degree as stated in a particular University Catalog. The student has the choice of (1) graduating under the current catalog, (2) graduating under the catalog in force at the time of first registering at Sul Ross State University, or (3) graduating under the catalog in force for any subsequent year of registration at Sul Ross State University.

For students returning to Sul Ross for a second degree at the same or higher level, catalog choice is limited to the catalog in effect at first registration in the new program or any catalog in force during any subsequent term of registration in the new program.

Students that transfer to Sul Ross State University from another Texas public institution of higher education have the choice of (1) graduating under the current Sul Ross catalog, (2) graduating under the Sul Ross catalog in force at the time of first registering at the transferring Texas public institution, or (3) graduating under the Sul Ross catalog in force for any subsequent year of registration at the transferring Texas public institution or at Sul Ross State University.

Each of these possibilities is subject to the condition that all requirements for a degree must be completed within six years from the date of the catalog selected. For example, a student who chooses to graduate under the requirements of the 2010-2012 catalog must complete all requirements for the degree under that catalog prior to August graduation in 2016 or 2018, depending on initial year of registration, or a later catalog must be selected.

### Catalog Year – Changing Catalog Year, changing Major within a College, or changing Colleges

Students may change their Catalog Year or Major at any time; however, after the term has begun (the first day of classes), the change of Catalog Year or Major will be made effective for the next available term. All changes must be declared at least one semester prior to the expected graduation term.

### Catalog Year – Adding a Major, Minor and/or Concentration

Students will not be allowed to change their Program of Study/Major for the current term. The current term begins on the first day of classes. Students may change their Program of Study/Major at any time; however, after the term has begun (first day of classes), the change of Program of Study/Major will be made effective for the next available term. All Major, Minor, Concentration or Option changes must be declared at least one semester prior to the expected graduation term. Additional Majors or Minors can be dropped at any time.

### Changing Catalog Year

Students will not be allowed to change their Catalog Year for the current term. The current term begins on the first day of classes. Students may change their Catalog Year at any time; however, after the term has begun (the first day of classes), the change of Catalog Year will be made effective for the next available term. All Catalog Year changes must be declared at least one semester prior to

the expected graduation term.

### **CLASSIFICATION – STUDENT CLASS**

Classification of undergraduate students is made in the Office of the Registrar based on the number of credits earned, and is revised, as may be necessary.

The rules governing the classification of undergraduate students are:

1. Freshmen: Students having fewer than 30 hours of credit (0 – 29.99).
2. Sophomores: Students having at least 30 hours of credit (30 – 59.99).
3. Juniors: Students having at least 60 semester hours of credit (60 – 89.99).
4. Seniors: Students having at least 90 semester hours of credit (90+).

Hours completed in developmental education courses are not included for purposes of determining classification.

### **COMMUNICATION**

Primary communication at SRSU is through assigned email. Every student is given a SRSU email account. All SRSU email can be auto-forwarded to a personal email account. Important information is regularly sent to students via their SRSU email. All students are expected to become familiar with University policies, deadline dates, and information posted in various publications, on our website, and through informational emails sent to student accounts.

Students should refer to this Catalog, LoboOnLine, and the SRSU Homepage for important information regarding registration, graduation application dates, policies/procedures, online payment options, news, and updates from the University community.

### **CONTACT INFORMATION**

Students are responsible for accurately maintaining their demographic contact information via the University's web portal- LoboOnLine. The University considers each student's school/SRSU email address as the official, formal contact point. All official university correspondence will be sent to this address. Students should further maintain their physical addresses as there are periodic occasions when students will be contacted via United States Postal Service. The University will consider all correspondence mailed to a student at their email or physical address currently on file to have been received unless it is returned to the sender.

### **CONTINUOUS ENROLLMENT**

Sul Ross State University requires students to be enrolled in consecutive terms (Fall and Spring semesters, not Summer) until the completion of the Program of Study and the awarding of the credential. Students not enrolled in a consecutive term must apply for readmission and should not expect to use the facilities or access services offered by SRSU when not enrolled.

## CORE CURRICULUM

### What is the Core Curriculum?

The Texas Higher Education Coordinating Board (Coordinating Board), with the assistance of its Undergraduate Education Advisory Committee, designed a 42 semester credit hour (SCH) core curriculum for all undergraduate students in Texas public higher education institutions. The Coordinating Board approved the new core to be implemented in fall 2014. The purpose of the core curriculum is to ensure that Texas undergraduate students enrolled in public institutions of higher education will develop the essential knowledge and skills they need in order to be successful in college, in a career, in their communities, and in life. The core curriculum facilitates the transfer of lower-division course credit among public colleges, universities, and health-related institutions throughout the state.

Beginning in fall 2014, all incoming Freshmen students to Texas public institutions will complete the new core curriculum requirements. Core curriculum courses for all institutions are listed in this Core Curriculum WebCenter Search Facility.

Students enrolled prior to fall 2014 may graduate under the previous rules for the core curriculum and must consult the Core Curriculum WebCenter at <http://statecore.its.txstate.edu> for a listing of courses.

### How does the Core Curriculum work?

If you first enrolled at a Texas public university or college in Fall 1999 or more recently, your degree requirements include a General Education Core Curriculum. Every public institution in Texas has a Core, which is designed to provide a solid foundation for your college education and to make transfers between and among Texas institutions of higher education as smooth and seamless as possible.

You may choose a major which has some more rigorous or more specific requirements than the Core. Most science majors, for instance have more intensive math and science requirements. In these cases, the major requirements have priority. So, switching institutions has become easier, but changing majors may still involve taking some extra courses.

For those and other reasons, no one should enroll in courses, Core Curriculum or otherwise, without consulting with a trained academic advisor.

### Are there any additional requirements in the Core Curriculum and Sul Ross State University?

You may choose a major which has some more rigorous or more specific requirements than the Core. Most science majors, for instance, have more intensive math and science requirements. In these cases, the major requirements have priority. So, switching institutions has become easier, but changing majors may still involve taking some extra courses.

For those and other reasons, **no one should enroll in courses, Core Curriculum or otherwise, without consulting with a trained academic advisor.**

## Core Curriculum 2021

COMPONENT AREA	CREDITS TO BE COMPLETED	SRSU SUBJECT & NUMBER	TCCN SUBJECT & NUMBER
010 Communication	6	ENG 1301 Composition I ENG 1302 Composition II ENG 2311 Technical and Business Writing	ENGL 1301 ENGL 1302 ENGL 2311
020 Mathematics	3	MATH 1332 Contemporary Mathematics MATH 1314 College Algebra MATH 1316 Plane Trigonometry MATH 1342 Elementary Statistics MATH 2413 Calculus I	MATH 1332 MATH 1314 MATH 1316 MATH 1342 MATH 2413
030 Life and Physical Sciences	6	ASTR 1303 Stars and Galaxies ASTR 1304 Solar System BIOL 1306 Biology for Majors I BIOL 1307 Biology for Majors II BIOL 1311 General Botany BIOL 1313 General Zoology BIOL 2301 Anatomy & Physiology I BIOL 2302 Anatomy & Physiology II BIOL 2321 Microbiology CHEM 1311 General Chemistry I CHEM 1312 General Chemistry II GEOL 1303 Physical Geology GEOL 1304 Historical Geology GEOL 1305 Environmental Geology IT 1309 Power Technology NRM 2303 Principles of Conservation Biology NRM 2305 Soils NRM 1301 Horticulture PHYS 1301 College Physics I PHYS 1302 College Physics II ENG 2341 Forms of Literature ENG 2331 World Literature ENG 2312 Writers of the American West ENG 2315 Environmental Literature ENG 2322 British Literature I ENG 2323 British Literature II ENG 2327 American Literature I ENG 2328 American Literature II MAS 2301 Intro to Mexican-American Studies HIST 2301 World History to 1500 HIST 2302 World History since 1500 PHIL 1301 Intro to Philosophy MUS 1309 American Music WS 2301 Intro to Women's Studies WS 2302 Intro to Masculinity and Gender Studies	ASTR 1303 ASTR 1304 BIOL 1306 BIOL 1307 BIOL 1311 BIOL 1313 BIOL 2301 BIOL 2302 BIOL 2321 CHEM 1311 CHEM 1312 GEOL 1303 GEOL 1304 GEOL 1305 IT 1309 NRM 2303 NRM 2305 NRM 1301 PHYS 1301 PHYS 1302 ENGL 2341 ENGL 2331 ENGL 2312 ENGL 2315 ENGL 2322 ENGL 2323 ENGL 2327 ENGL 2328 HUMA 1305 HIST 2311 HIST 2312 PHIL 1301 MUSI 1309 ARTS 1301 MUSI 1306 HUMA 1315 MUSI 1308 MUSI 1312 DRAM 1310 HIST 1301 HIST 1302 GOVT 2305 GOVT 2306
040 Language, Philosophy and Culture	3	ENG 2341 Forms of Literature ENG 2331 World Literature ENG 2312 Writers of the American West ENG 2315 Environmental Literature ENG 2322 British Literature I ENG 2323 British Literature II ENG 2327 American Literature I ENG 2328 American Literature II MAS 2301 Intro to Mexican-American Studies HIST 2301 World History to 1500 HIST 2302 World History since 1500 PHIL 1301 Intro to Philosophy MUS 1309 American Music WS 2301 Intro to Women's Studies WS 2302 Intro to Masculinity and Gender Studies	ENGL 2341 ENGL 2331 ENGL 2312 ENGL 2315 ENGL 2322 ENGL 2323 ENGL 2327 ENGL 2328 HUMA 1305 HIST 2311 HIST 2312 PHIL 1301 MUSI 1309 ARTS 1301 MUSI 1306 HUMA 1315 MUSI 1308 MUSI 1312 DRAM 1310 HIST 1301 HIST 1302 GOVT 2305 GOVT 2306
050 Creative Arts	3	ART 1301 Art Appreciation FA 1302 Music Appreciation FA 1315 Fine Arts Appreciation MUS 1308 Music Literature I MUS 1312 Music Theory II THEA 1310 Intro to Theatre	ARTS 1301 MUSI 1306 HUMA 1315 MUSI 1308 MUSI 1312 DRAM 1310
060 American History	6	HIST 1301 History of the United States to 1877 HIST 1302 History of the United States since 1877	HIST 1301 HIST 1302
070 Government/Political Science	6	PS 2305 Federal Government PS 2306 State Government	GOVT 2305 GOVT 2306
080 Social and Behavioral Sciences	3	ANSC 2312 Current Issues in Ag ANTH 1301 Cultural Anthropology ECO 2301 Principles of Macroeconomics ECO 2302 Principles of Microeconomics ED 2303 Trends in Education GEOG 1302 World Regional Geography GEOG 2302 Geography of the US and Canada PSY 1302 Intro to Psychology SOC 2303 Intro to Sociology	ANTH 2351 ECON 2301 ECON 2302 GEOG 1303 PSYC 2301 SOCI 1301
090 Component Area Option	6	COMM 1310 Fundamentals of Speech Communication COMM 1315 Public Speaking COMM 1320 Business and Professional Communication ENG 2341 Forms of Literature ENG 2331 World Literature ENG 2312 Writers of the American West ENG 2315 Environmental Literature ENG 2322 British Literature I ENG 2323 British Literature II	SPCH 1315 SPCH 1321 ENGL 2341 ENGL 2331 ENGL 2312 ENGL 2315 ENGL 2322 ENGL 2323

## COURSE POLICIES - GENERAL

### **Class Size**

Classes at SRSU may be as small as eight and seldom larger than 30 students. Small class size is a great advantage for both students and faculty. Each student is heard, and ideas and opinions are explored. Professors get to know students as individuals and the learning environment is enriched.

### **Class Attendance**

Regular class attendance is important to the attainment of the educational objectives of the University. Therefore, students should attend all classes. Attendance includes being punctual for class and ready to engage with the professor and the day's material. The instructor's policy on class attendance will be explained at the beginning of the semester or term. In accordance with the instructor's policy, the instructor has the right to penalize students who are out of compliance with the class attendance policy.

***Authorized/Excused Absences Statement.*** An absence because of participation in an official University activity is considered to be an authorized/excused absence. While every effort will be made by departments to minimize missed class time of students by careful scheduling of authorized University activities, when a student has to miss a class due to an authorized University activity, it will be the responsibility of the student to notify the instructor of the class in advance. The department responsible for the authorized University activity will also notify instructors through the Student Life Office by providing an excused absence list to the office. Instructors will give students participating in an authorized University activity the opportunity to make up class work, including tests, within a reasonable time and at the convenience of the instructor.

Should an instructor have an attendance policy that allows for the dropping of a student after a certain number of absences, authorized/excused absences will not be counted towards that number of absences. Any student dropped for excessive absences will receive either an "F" or a "W" depending upon the faculty member's discretion.

***Distance Education (Web-course) Non-Participation Statement.*** Policies in effect for on-campus, traditional classroom instruction courses also apply to students enrolled in distance education courses, including Web-based and ITV courses. Non-participation and inactivity may include not logging on to the course, not submitting assignments or participating in other assigned activities as scheduled, not communicating with the instructor by phone or e-mail, and/or not following the instructor's participation guidelines stated in the syllabus.

***Religious Holy Days Absences (HB 256 78th Legislature).*** In accordance with Texas Education Code 51.911, SRSU shall excuse a student from attending classes or other required activities, including examinations for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. "Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code.



## Final Examinations

Examinations are scheduled at the end of each term. Exam dates are listed on the Registrar's Office page. Students are expected to take exams at the scheduled times. A student who is absent from an examination without instructor approval may receive a grade of zero for the final examination which could result in a grade of "F" for the course. In case of illness or other unforeseen circumstances that could prevent a student from taking final examinations at the posted time, the student must contact the instructor and make individual arrangements to reschedule in advance of the exam.

## Grading

At the end of each semester and each summer term final grades are recorded on the student's permanent record by Office of the Registrar.

GRADE	GRADE MEANINGS	QUALITY POINTS
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
	Failure/Never	
FO	Attended	0
	Failure/Stopped	
FX	Attending	0
I	Incomplete	0
CR	Credit	Not Computed
NC	No Credit	0
NG	No Grade	Not Computed
NR	Not Reported	0
P	Pass	Not Computed
PR	Progress	Not Computed
W/WX	Withdrew	Not Computed
WF	Withdrew/Failed	Not Computed
WP	Withdrew/Passing	Not Computed

## Incomplete Grades

The grade of "I" is given by the instructor upon consultation with the student. The work to be completed and deadline for completion must be communicated to the Registrar in writing. A student may complete any outstanding work such that a permanent grade can be assigned no later than the last regular class day of the immediately succeeding semester in which the course was originally taken. During the timeframe in which work is performed to earn the permanent grade, the "I" grade will be calculated in the student's grade point average as an "F" (no quality points). If the work is not completed by the deadline, the "I" will be converted to a permanent "F" on the transcript.

Normally, an incomplete grade will be awarded only for situations such as illness, family emergencies, or unusual circumstances which prevent a student from completing a course in a semester or summer term. Incomplete grades must be removed prior to graduation.

## Non-Reported Grades

The grade of “**NR**” is given by the Office of the Registrar when the instructor fails to meet the grade submission deadline. The “**NR**” grade will be calculated in the student’s grade point average as an “**F**” (no quality points) until such time as the instructor submits the official grade via the grade change request form.

## PR Grades

There are two instances when “**PR**” grades are used in the grading process: Students who complete any developmental education courses, including ED 0300, ENG 0301, MATH 0300, or MATH 0301 or others, in good standing, but who have not earned a letter grade of “**A**”, “**B**” or “**C**” for the course may earn a grade of “**PR**”. The grade of “**PR**” indicates that even though the student has made progress throughout the semester the student is not yet ready to advance to the next course. Criteria for determining “good standing” are all of the following: the student must have attended class regularly, participated in class and class work, and demonstrated an increase in course knowledge. Students who are not in good standing at the end of the semester will earn either a grade of “**D**” or “**F**”.

The grade of “**PR**” (in progress) will be assigned for students in the second semester thesis course, counseling internship courses, or practicum courses. Students working on a thesis, counseling internship, or practicum should be continuously enrolled in the appropriate course. Credit will be given upon completion of the thesis or practicum. A grade of “**PR**” will not be calculated in the student’s grade point average.

## Withdrew Grades

The grade of “**W**” or “**WX**” is given for courses dropped after the 12th/4th class days through the last day to drop a course with a “**W**” as published in the University’s calendar. Students who wait until the published deadline must have complied with the class attendance policy of this catalog. An instructor is not obligated to recommend a “**W**” for a class if excessive absences have occurred. Students will not be permitted to drop a course or withdraw from the University after the published deadline.

### Failing Grades

The grades “**F**”, “**FX**”, and “**F0**” are all failing grades. The “**F**” is awarded to students that continue to attend classes throughout the semester yet fail to pass the course. The “**FX**” is awarded to students that fail due to an unofficial withdrawal (student stops attending class without formally dropping or withdrawing). The “**F0**” is awarded to students that never attend class.

## Symbols Associated with Courses and Grades

SYMBOL	PURPOSE	QUALITY POINTS
E	Repeated Course	Not Computed
I	Repeated Course	Highest Grade Computed
#	Developmental Course	Not Computed

## Repeat Policy

Except for courses specifically described, “may be repeated for credit”, only the highest grade received for a repeated course is calculated in the GPA. If the grade is the same when repeated, the most recent grade is calculated. The excluded grade will remain on the record but will be excluded from the GPA calculations. Courses repeated at a transfer institution will be treated in the same manner.

## Grade Point Average



Sul Ross State University utilizes the four-point grading system. The student's grade point average is determined by dividing the total number of GPA hours into the total number of grade points received. The grade point value for a course is determined by multiplying the number of credit hours by the quality point value for the grade earned. For example, grade points earned for "B" in a three semester credit hour course is 9 (3 credit hours x 3 quality points.) GPA hours are the hours for which a letter grade is earned (A, B, C, D, F), excluding repeated courses and developmental courses.

### **Grade Changes**

An individual course grade may be changed when the involved faculty member certifies to the Registrar that an error was made in the original grade. The grade change must be approved by the department chair and appropriate academic dean. Grade changes must be submitted before the end of the next long semester after the grade was issued.

### **Grievances Regarding Course Grades or Professional Conduct of Faculty**

**Note: Student grievances based upon discrimination or exclusion from course activities because of race, color, national origin, religion, sex, age or disability are under the provisions of STUDENT GRIEVANCE PROCEDURES (Student Handbook, the Faculty Handbook, and the Administrative Policy and Procedures Manual).**

If a student disputes a course grade which has been reported to the registrar or if a student believes the conduct of an instructor in the instruction and/or administration of a course to be unprofessional, the student should discuss the concern with the instructor of the course. If the student is not satisfied with results of that discussion, the student should make an appointment to discuss the concern with the Chair of the Department. If the concern is not resolved at the department level, the student should meet with the Dean of the College.

If the student is unable to resolve the concern satisfactorily through the discussions, the student may file a formal grievance with the Dean of the College. The student grievance must be filed on the Student Grievance of Grade or Student Grievance of Professional Conduct forms, available from the dean or Office of Academic Affairs. Any grievance regarding a grade or professional conduct must be filed within one semester of receiving the grade or of the questioned professional conduct.

Upon receiving the appropriate form, the Dean of the College will transmit the grievance to the faculty member for response. The response from the faculty member will be transmitted to the department chair for review, comment and recommendation and then to the academic dean who either resolves in favor of the aggrieved student or determines that the faculty member's action complied with university policy. The student may appeal the Dean's determination to the Provost. The student may appeal to the President if the student considers the determination of the Provost to be unsatisfactory.

## **No Grade**

Students who do not desire college credit for a course may elect to take the course under the designation “**NG**” (no grade). To take a course under the “**NG**” designation, a student completes the NG Grade Option form and submit to the Center for Enrollment Services during registration or prior to the 12th class day. The no grade option is intended primarily for non-degree students who wish to improve their personal knowledge of a subject without receiving college credit. Students choosing the “**NG**” designation pay the same tuition and fees as students taking the course for credit and consequently are entitled to participate in all class activities and to receive the same student services available to other students.

## **Grade Reports**

Students can access their grades through Self-Service as soon as they are posted by faculty and officially verified by the Registrar’s Office.

## **Audit**

Students may choose to audit a lecture course if they wish to broaden their academic exposure but do not need to take the course for credit. Notification of the choice to audit a course must be filed within the Registrar’s Office before the end of the Drop/Add period. The decision to audit a course is irrevocable. Students cannot receive financial aid for audited courses and audited courses do not count toward the credits required for a full-time load for financial aid purposes.

Once a student has audited a course they are not eligible to receive academic credit by advanced standing examination or advanced placement. Student are allowed to enroll and receive academic credit for previously audited work by enrolling in the course for academic credit.

## **CREDITS AND SEMESTER HOURS**

The semester credit hour is the basis of credit. Sul Ross State University adheres to the conceptualization of the semester credit as defined by the U.S. Department of Education and the Southern Association of Colleges and Schools-Commission on Colleges (SACSCOC). One semester credit hour is awarded for each one-hour (50 minute) class session per week for the duration of the semester with a minimum of two hours outside preparation for each in-class session. Two to three contact hours of laboratory work are considered to be the equivalent of one hour of lecture.

### **Alternative Course Formats:**

In addition to traditional in-class instruction, the following formats are used for instruction: laboratories, studio courses, web-based courses, shortened and weekend courses, individual studies, and internship courses. The policy of the University is for each format to require the following hours of course activity per week:

- One-hour laboratory courses shall require three hours of in-laboratory and preparation time per week during the course of the semester;
- Three-hour studio courses shall require nine hours of in-studio instruction per week during the course of the semester;
- Three-hour web-based courses shall require twelve hours of activity or study time per week during the course of the semester;
- Three-hour shorted-format or weekend-format courses shall require the equivalent of nine hours of instruction and preparation per week during the course of the semester;
- Three-hour individual studies' courses shall require nine hours of instruction and preparation per week during the course of the semester;
- Three-hour internship courses shall require nine hours of instruction and on-site experience per week during the course of the semester;
- Four-hour courses shall require four hours of lecture contact hours per week during the course of the semester; and,
- Other alternative format courses shall require the equivalent of three hours of course activity per week of a traditional semester for each credit hour awarded for the course.

## CREDIT BY EXAMINATION

Students enrolled at Sul Ross State University and prospective students may earn up to 30 semester hours college credit by examinations with acceptable scores made on the College Level Examination Program tests (CLEP), DANTES/DTTS, Advanced Placement, the Scholastic Aptitude Test, and the American College Test. Scores on the CLEP General Examinations and Advanced Placement examinations must be submitted prior to initial enrollment by students who have not attempted any previous college work. Enrolled students desiring CLEP/DANTES credit should take the Subject Examinations. A student may receive credit only in those courses in which he/she has not earned academic credit accepted by Sul Ross State University. Students may not attempt credit by examination for a course in which they have received failing grades or for a basic course in those areas in which they have acceptable college credit for more advanced courses.

Students who desire to earn credits by examination should confer with their major advisors or high school counselors if they have not entered college, for permission before applying to take an examination for credit and paying the required fees.

Students must make arrangements for testing with Career Services and Testing at 432-837- 8178 or 432-837-8357.

### College Level Examination Program (CLEP)

**Credit is awarded for the examinations listed below. Credit may be awarded for acceptable scores on tests not listed upon the approval of the awarding department and College:**

Subject Examinations	University Course and Number	Minimum Award	Score
American Government	PS 2305	3	50
American History	HIST 1301	3	50
American History II	HIST 1302	3	50
American Literature	ENG 2327	3	50
Analysis & Interpretation Of Literature (includes essays)	ENG 2341	3	50
College Algebra	MATH 1314	3	50
Calculus with Elementary Functions	MATH 2413	4	41
Educational Psychology	ED 3302	3	50
English Literature	ENG 2322	3	50
General Biology	BIOL 1311/1111, 1313/1113	8	50
General Psychology	PSY 1302	4	41
Human Growth and Development	ED 3304	3	50
Introduction to Management	MGT 3360	3	50
Introduction to Accounting	ACC 2301, 2302	6	50
Introductory Business Law	GBA 3351	3	50
Introductory Microeconomics	ECO 2302	3	50
Introductory Macroeconomics	ECO 2301	3	50
Introductory Marketing	MKT 3370	3	50
Introductory Sociology	SOC 2303	3	50
First-Year College – Spanish	SPAN 1411, 1412	8	50
First-Year College – French	FREN 1411, 1412	8	50
First-Year College – German	NEN	8	50
Trigonometry	MATH 1316	3	50
Western Civilization	HIST 2301	3	50
Western Civilization II	HIST 2302	3	50

\*English Composition tests are given only in January, April, June, and October.

### Dantes Subject Standardized Tests (DSSTs)

**Credit is awarded for the examinations listed below. Credit may be awarded for acceptable scores on tests not listed upon the approval of the awarding department and College:**

<b>DANTES</b>	<b>University Course and Number</b>	<b>Semester Credit Hours Awarded</b>	<b>Minimum Grades</b>
Introductory College Algebra/Fundamentals of College Algebra	MATH 1314	3	46/400
Principles of Statistics	MATH 1342	3	400
Lifespan Developmental Psychology	PSY 2310	3	400
General Anthropology	ANTH 1301	3	400
Introduction to Law Enforcement	CJ 1301	3	400
Principles of Finance	FIN 3340	3	46/400
Principles of Financial Accounting	ACC 3332	3	400
Human Resource Mgmt.	MGT 3363	3	400
Organizational Behavior	MGT 4361	3	400
Computing and Information Technology	CS 1309	3	400
Introduction to Business	GBA 1350	3	400
Money and Banking	ECO 3300	3	400
Personal Finance	FIN 1101	3	400
Astronomy	ASTR 1303	3	400
Physical Geology	GEOL 1303	3	46
Technical Writing	ENG 2311	3	400
Ethics in America	PHIL 1302	3	400

### **Advanced Placement (AP)**

**Credit is awarded for the examinations listed below. Credit may be awarded for acceptable scores on tests not listed upon the approval of the awarding department and College:**

<b>AP Examinations</b>	<b>University Course and Number</b>	<b>Semester Credit Hours Awarded</b>	<b>Minimum Grade</b>
History of Art	ART 1303, 1304	6	3
Biology	BIOL 1311/1111, BIOL 1313/1113	8	3
Chemistry	CHEM 1311/1111, CHEM 1312/1112	8	3
Computer Science A	CS 1309	3	3
Economics – Microeconomics	ECO 2302	3	3
Economics – Macroeconomics	ECO 2301	3	3
English – Language and Composition	ENG 1301, 1302	6	3
Government and Politics – US	PS 2305	3	3
History – World	HIST 2301, 2302	6	3
History – United States	HIST 1301, 1302	6	3
Mathematics – Calculus AB	MATH 2413	4	3
Mathematics – Calculus BC	MATH 2413, 2414	8	3
Music Theory	MUS 1311, 1312	6	3
Physics B	PHY 1301/1101, PHY 1302/1102	8	3
Physics C (Mechanics)	PHY 1301/1101	4	3
Physics C (Electricity and Magnetism)	PHY 1302/1102	4	3
Psychology	PSY 1302	3	3
Spanish – Language	SPAN 1411, 1412	8	3
Spanish – Literature	SPAN 2305	3	3

### **International Baccalaureate Program**

Sul Ross State University recognizes the value of the International Baccalaureate program and has

approved the granting of credit for the IB Higher level exams when a score of 5 or higher is obtained. Credit will be granted for the following higher level exams: Biology, Business, Chemistry, Economics, English, French, Geography, German, History, Music, philosophy, physics, Psychology, and Spanish.

SRSU will grant limited credit for Standard level exams when a score of 4 or more is obtained. Credit only may be awarded at the discretion of the appropriate department for scores other than those required here.

A maximum of 28 hours will be awarded from the IB Diploma. The hours will only be awarded from the International Baccalaureate transcript.

An Official IB transcript must be sent to Sul Ross State University.

**Grades accepted: 7 & 6 = A, 5 = B for Higher Exams Only**

Higher Exam	Credit Hours	Equivalent SRSU Course	Texas Common Course Number
Biology	8	BIOL 1311/1111, 1313/1113	BIOL 1311/1111, 1313/1113
Business Management	6	FIN 3340, MGT 3360	N/A
Chemistry	8	CHEM 1311/1111, 1312/1112	CHEM 1311/1111, 1312/1112
Economics	6	ECO 2301, 2302	ECON 2301, 2302
English	6	ENG 1301, 1302	ENGL 1301, 1302
French	8	FREN 1411, 1412	FREN 1411, 1412
German	8	Language Requirement	GERM 1411, 1412
Geography	3	GEOG 1302	GEOG 1303
History	6	HIST 1301, 1302	HIST 1301, 1302
Music	3	MUS 1308	MUSI 1308
Philosophy	3	PHIL 1301	PHIL 1301
Physics	8	PHYS 1301/1101, 1302/1102	PHYS 1301/1101, 1302/1102
Psychology	3	PSY 1302	
Spanish	8	SPAN 1411, 1412	SPAN 1411, 1412

**Grades accepted: 7 or 6 = A, 5 = B for the following:**

Standard Exam	Credit Hours	Equivalent SRSU Course	Texas Common Course Number
Art	3	ART 1301	ART 1301
Economics	6	ECO 2301, 2302	ECON 2301, 2302
Music	3	MUS 1308	MUSI 1308
Theatre	3	THEA 1310	DRAM 1310

**Grades accepted: 7 or 6 only for the following:**

Standard Exam	Credit Hours	Equivalent SRSU Course	Texas Common Course Number
Biology	8	BIOL 1311/1111, 1313/1113	BIOL 1311/1111, 1313/1113
Chemistry	8	CHEM 1311/1111, 1312/1112	CHEM 1311/1111, 1312/1112
Computer Science	3	CS 1301	COSC 1301
Mathematical Studies	6	MATH 1314, 1316	MATH 1314, 1316
Mathematical Studies	7	MATH 1316, 2413	MATH 1316, 2413
Physics	8	PHYS 1301/1101, 1302/1102	PHYS 1301/1101, 1302/1102

**Grades accepted: 7 or 6 = A, 5 = B for the following:**

Standard Exam	Credit Hours	Equivalent SRSU Course	Texas Common Course Number
Philosophy	3	PHIL 1301	PHIL 1301
Psychology	3	PSY 1302	

**Grades accepted: 5 or 4 = credit for the following:**

Standard Exam	Credit Hours	Equivalent SRSU Course	Texas Common Course Number
French	8	FREN 1411, 1412	FREN 1411, 1412
German	8	Language Requirement	GERM
Spanish	8	SPAN 1411, 1412	SPAN 1411, 1412

**Grades accepted: 7 or 6 = credit for the following:**

Standard Exam	Credit Hours	Equivalent SRSU Course	Texas Common Course Number
French	14	FREN 1411, 1412, 2311, 2312	FREN 1411, 1412, 2311, 2312
German	14	Language Requirement	GERM 1411, 1412, 2311, 2312
Spanish	14	SPAN 1411, 1412, 2311, 2312	SPAN 1411, 1412, 2311, 2312

To Request the International Baccalaureate transcript, call (212) 696-4464 or write to:

International Baccalaureate North America  
200 Madison Avenue, Suite 2007 New York, NY 10016

Transcripts should be sent to:

Sul Ross State University  
Center for Enrollment Services  
SRSU Box C-108 Alpine, TX 79832

## American College Test (ACT) and Scholastic Aptitude Test (SAT)

Credit for English and Mathematics courses is offered to entering freshmen whose scores are sufficient to meet the guidelines listed below:

### 1. English

ACT English Score	SAT Critical Reading Score (SAT prior to March 2016)	SAT Reading Score (effective March 2016)	Credit:
30+	588+	32+	ENG 1301

### 2. Mathematics

ACT Math Score	SAT Math Score (SAT prior to March 2016)	SAT Math Score (effective March 2016)	Credit:
30+	603+	620+	MATH 1314

Any credit awarded will be recorded on the student's transcript after the successful completion of the first semester as a full-time beginning freshman student with a minimum grade point average of 2.0. The credit awarded may not replace any work which has been attempted or completed in the English or Mathematics courses shown.

The Enhanced American College Test and the Scholastic Aptitude Test are offered periodically on nationally established dates.

## Cooperative Military Programs

**Service Members Opportunity Colleges.** Sul Ross State University has been designated as an institutional member of Service members Opportunity Colleges (SOC), a group of over 400 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, Sul Ross State University recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences when such actions are consistent with general University requirements stated elsewhere in this Catalog. Recognition will be given to educational experiences obtained in the Armed Services which are consistent with general University policies regarding admission procedures, transfer credit from other colleges and universities, and courses completed through the United States Armed Forces Institute (USAFI), The College Level Examination Program (CLEP), and Defense Activity for Traditional Educational Support (DANTES), which are equivalent to CLEP credit awarded. SOC has been developed jointly by educational representatives of each of the Armed Services, the Office of the Secretary of Defense, and a consortium of thirteen leading national higher education associations. It is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community and Junior Colleges (AACJC).

### Credit for military service and service school courses

Sul Ross State University utilizes the American Council on Education's Guide to the Evaluation of Education Experiences in the Armed Services in evaluating and awarding credit for military service and service school courses. Veterans and service personnel may submit requests for credit as follows:



1. Veterans should submit to the Center for Enrollment Services or the Office of Admissions and Records DD Form 214, "Armed Forces of the United States Report of Transfer or Discharge" for consideration of credit. To be eligible for consideration, the veteran must have served on active duty at least 181 days exclusive of training.
2. Service personnel currently on active duty should submit to the Center for Enrollment Services or the Office of Admissions and Records DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service," certified by a military education officer, in order to have service school courses evaluated.
3. Air Force personnel desiring credit for vocational certificates earned through the Community College of the Air Force (CCAF) should request the CCAF to send an official transcript to the Center for Enrollment Services.

The total amount of undergraduate credit which may be awarded for all categories of military service, service school courses, CLEP/DANTES, and collegiate organization courses is thirty semester hours.

### **Credit for non-collegiate organization courses**

Sul Ross State University may grant limited credit for the successful completion of courses conducted by a non-collegiate organization. For this purpose, the University will follow the general recommendations of the American Council on Education as outlined in a Guide to Educational Credit by Examination. The maximum amount of college credit awarded will vary according to individual circumstances, but the total undergraduate credit for such courses, for military service, and for CLEP or DANTES may not exceed thirty semester hours. Questions concerning graduate credit should be directed to the Center for Enrollment Services. In order for the non-collegiate organizations' courses to be considered, these procedures must be followed:

1. The student must request the sponsoring organization to submit to the Center for Enrollment Services a transcript, certificate, or statement verifying that the courses have been successfully completed.
2. The student must enroll in Sul Ross State University and successfully complete one long semester or one summer session of at least twelve semester hours work before credit for the non-collegiate organization's courses will be awarded.
3. Where possible, credit will be given for Sul Ross State University courses, which are equivalent to those completed. The Center for Enrollment Services will determine the equivalencies. In all cases, credit will be awarded on the basis of one semester hour for each fifteen hours of classroom lecture contact, or one semester hour for each thirty hours of laboratory work, or one semester hour for not less than forty-five hours of vocational shop instruction.
4. Credit awarded for non-collegiate organization course work may or may not be utilized to satisfy requirements in the major or minor fields, depending on the evaluation of individual needs by the academic administration of the University. Such decisions will be made in consultation with the student.

## COURSE NUMBERING SYSTEM

The four-digit numbering system is based on the following criteria:

- The level of the courses is identified by the first digit as follows: freshman, 1; sophomore, 2; junior, 3; senior, 4; and graduate, 5-7.
- The semester credit hour is identified by the second digit.
- University and/or departmental codes are identified by the last two digits.

Course titles in the academic programs section of this Catalog are followed by two numbers in parentheses.

- The first number refers to the number of lecture contact hours per week;
- The second refers to the number of laboratory contact hours per week. For example, (3- 2) indicates three contact hours of lecture and two contact hours of laboratory each week. Lecture contact hours are the hours per week students are required to spend in contact with faculty in a lecture setting, e.g., class, conference, seminar, individual instruction, private lesson, thesis or dissertation discussion, or independent study. Laboratory contact hours are the number of hours per week that students are required to spend in contact with faculty in an experiential situation, e.g., laboratory clinical, practicum, internship, or student teaching.

### Texas Common Course Numbering System

The Texas Common Course Numbering System is a voluntary, co-operative effort among Texas community colleges and universities to facilitate transfer of freshman and sophomore level general academic coursework. TCCNS provides a shared, uniform set of course designations for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis. When students transfer between two participating TCCNS institutions, a course taken at the sending institution transfers as the course carrying the same TCCNS designation at the receiving institution.

Course numbers in the academic programs section of this catalog are followed by the Texas Common Course Number prefix and number in parentheses where appropriate.

SRSU Subject	Number	Title	TCCNS Equivalent
ACC	2301	Principles of Accounting I	ACCT 2301 Principles of Financial Accounting
ACC	2302	Principles of Accounting II	ACCT 2302 Principles of Managerial Accounting
ANSC	1419	General Animal Science	AGRI 1419 Introductory Animal Science
ANTH	1301	Cultural Anthropology	ANTH 2351 Cultural Anthropology
ANTH	1302	Introduction to Archeology	ANTH 2302 Introduction to Archeology
ART	1301	Art Appreciation	ARTS 1301 Art Appreciation
ART	1303	Art History I	ARTS 1303 Art History I (Prehistoric to the 14th Century)
ART	1304	Art History II	ARTS 1304 Art History II (14th Century to the Present)
ART	1311	Design I	ARTS 1311 Design I (2- Dimensional)
ART	1312	Design II	ARTS 1312 Design II (3- Dimensional)
ART	1316	Drawing I	ARTS 1316 Drawing I
ART	1317	Drawing II	ARTS 1317 Drawing II

## Texas Common Course Numbering System (Cont.)

SRSU					
Subject	Number	Title			TCCNS Equivalent
ART	2313	Design Communication I	ARTS	2313	Design Communications I
ART	2316	Painting I	ARTS	2316	Painting I
ART	2323	Life Drawing I	ARTS	2323	Life Drawing I
ART	2326	Sculpture	ARTS	2326	Sculpture I
ART	2346	Ceramics I	ARTS	2346	Ceramics I
ART	2347	Ceramics II	ARTS	2347	Ceramics II
ART	2366	Watercolor	ARTS	2366	Watercolor I
AST	1305	Business Computer Applications	BCIS	1305	Business Computer Applications
ASTR	1103	Stars and Galaxies Lab	ASTR	1103	Stars and Galaxies Lab
ASTR	1104	Solar System Lab	ASTR	1104	Solar System Lab
ASTR	1303	Stars and Galaxies	ASTR	1303	Stars and Galaxies
ASTR	1304	Solar System	ASTR	1304	Solar System
BIOL	1106	Biology for Majors I Lab	BIOL	1106	Biology for Science Majors I (lab)
BIOL	1107	Biology for Majors II Lab	BIOL	1107	Biology for Science Majors II (lab)
BIOL	1111	General Botany Lab	BIOL	1111	General Botany (Lab)
BIOL	1113	General Zoology Lab	BIOL	1113	General Zoology (Lab)
BIOL	1311	General Botany	BIOL	1311	General Botany (lecture)
BIOL	1306	Biology for Majors I	BIOL	1306	Biology for Science Majors I (lecture)
BIOL	1307	Biology for Majors II	BIOL	1307	Biology for Science Majors II (lecture)
BIOL	1313	General Zoology	BIOL	1313	General Zoology (lecture)
BIOL	2101	Anatomy & Physiology I Lab	BIOL	2101	Anatomy & Physiology I (lab)
BIOL	2102	Anatomy & Physiology II Lab	BIOL	2102	Anatomy & Physiology II (lab)
BIOL	2121	Microbiology Lab	BIOL	2121	Microbiology For Majors (lab)
BIOL	2301	Anatomy & Physiology I	BIOL	2301	Anatomy & Physiology I (lecture)
BIOL	2302	Anatomy & Physiology II	BIOL	2302	Anatomy & Physiology II (lecture)
BIOL	2321	Microbiology	BIOL	2321	Microbiology For Majors (lecture)
BIOL	2401	Human Anatomy & Physiology I	BIOL	2401	Anatomy & Physiology I (lecture + lab)
BIOL	2402	Human Anatomy & Physiology II	BIOL	2402	Anatomy & Physiology II (lecture + lab)
BIOL	2404	Anatomy and Physiology	BIOL	2404	Anatomy & Physiology (lecture + lab)
BIOL	2406	Environmental Biology	BIOL	2406	Environmental Biology (lecture + lab)
BIOL	2421	Microbiology for Science Majors	BIOL	2421	Microbiology for Science Major I (lecture + lab)
CHEM	1111	General Chemistry I Lab	CHEM	1111	General Chemistry I (Lab)
CHEM	1112	General Chemistry II Lab	CHEM	1112	General Chemistry II (Lab)
CHEM	1311	General Chemistry I	CHEM	1311	General Chemistry I (Lecture)
CHEM	1312	General Chemistry II	CHEM	1312	General Chemistry II (Lecture)
CJ	1301	Introduction to Criminal Justice	CRIJ	1301	Introduction to Criminal Justice
CJ	1307	Crime in America	CRIJ	1307	Crime in America
CJ	1313	Juvenile Justice System	CRIJ	1313	Juvenile Justice System
CJ	2313	Correctional Systems & Practices	CRIJ	2313	Correctional Systems & Practices
		Legal Aspects of Law			
CJ	2323	Enforcement	CRIJ	2323	Legal Aspects of Law Enforcement
CJ	2328	Police Systems & Practices	CRIJ	2328	Police Systems & Practices
		Introduction to Mass			
COMM	1307	Communication	COMM	1307	Introduction to Mass Communication
COMM	1315	Public Speaking	SPCH	1315	Public Speaking
COMM	1318	Interpersonal Communication	SPCH	1318	Interpersonal Communication
		Business and Professional			
COMM	1320	Communication	SPCH	1321	Business & Professional Communication
COMM	2307	Basic Radio	COMM	2303	Audio Production
COMM	2333	Small Group Communications	SPCH	2333	Discussion & Small Group Communication
CS	1301	Introduction to Computing	COSC	1301	Introduction to Computing
CS	1309	Computer Science I	COSC	1336	Programming Fundamentals I
CS	1320	Computer Science II	COSC	1337	Programming Fundamentals II
CS	2315	Data Structures	COSC	2336	Programming Fundamentals III
ECO	2301	Principles of Macroeconomics	ECON	2301	Principles of Macroeconomics
ECO	2302	Principles of Microeconomics	ECON	2302	Principles of Microeconomics

## Texas Common Course Numbering System (Cont.)

SRSU Subject	Number	Title	TCCNS Equivalent
ENG	1301	Composition I	ENGL 1301 Composition I
ENG	1302	Composition II	ENGL 1302 Composition II
ENG	2311	Technical & Business Writing	ENGL 2311 Technical & Business Writing
ENG	2322	British Literature I	ENGL 2322 British Literature I
ENG	2323	British Literature II	ENGL 2323 British Literature II
ENG	2327	American Literature I	ENGL 2327 American Literature I
ENG	2328	American Literature II	ENGL 2328 American Literature II
ENG	2331	World Literature	ENGL 2331 World Literature
ENG	2341	Forms of Literature	ENGL 2341 Forms of Literature
FA	1302	Music Appreciation	MUSI 1306 Music Appreciation
FA	1315	Fine Arts Appreciation	HUMA 1315 Fine Arts Appreciation
FREN	1411	Beginning French I	FREN 1411 Beginning French I
FREN	1412	Beginning French II	FREN 1412 Beginning French II
FREN	2311	Intermediate French I	FREN 2311 Intermediate French I
FREN	2312	Intermediate French II	FREN 2312 Intermediate French II
GBA	1301	Business Principles	BUSI 1301 Business Principles
GEOG	1302	World Regional Geography	GEOG 1303 World Regional Geography
GEOL	1103	Physical Geology Lab	GEOL 1103 Physical Geology Lab
GEOL	1104	Historical Geology Lab	GEOL 1104 Historical Geology Lab
GEOL	1105	Environmental Geology Lab	GEOL 1105 Environmental Science Lab
GEOL	1303	Physical Geology	GEOL 1303 Physical Geology
GEOL	1304	Historical Geology	GEOL 1304 Historical Geology
GEOL	1305	Environmental Geology	GEOL 1305 Environmental Science
HIST	1301	History of the United States to 1877	HIST 1301 United States History I
HIST	1302	History of the United States Since 1877	HIST 1302 United States History II
HIST	2301	World History to 1500	HIST 2311 Western Civilization I
HIST	2302	World History Since 1500	HIST 2312 Western Civilization II
IT	1303	Engineering Drawing I	ENGR 1304 Engineering Graphics I
IT	2304	Photography	ARTS 2356 Photography I (Fine Arts emphasis)
JOUR	2311	News Gathering and Writing I	COMM 2311 Media Writing
MAS	2301	Introduction to Mexican-American Studies	HUMA 1305 Introduction to Mexican- American Studies
MATH	1314	College Algebra	MATH 1314 College Algebra
MATH	1316	Plane Trigonometry	MATH 1316 Plane Trigonometry
MATH	1325	Business Calculus	MATH 1325 Calculus for Business & Social Sciences
MATH	1332	Contemporary Mathematics	MATH 1332 Contemporary Mathematics (Quantitative Reasoning)
MATH	1342	Elementary Statistical Methods	MATH 1342 Elementary Statistical Methods
MATH	2318	Linear Algebra	MATH 2318 Linear Algebra
MATH	2413	Calculus I	MATH 2413 Calculus I
MATH	2414	Calculus II	MATH 2414 Calculus II

## Texas Common Course Numbering System (Cont.)

SRSU Subject	Number	Title	TCCNS Equivalent
MUS	1116	Elementary Sight Singing & Ear Training I	MUSI 1116 Sight Singing & Ear Training I
MUS	1117	Elementary Sight Singing & Ear Training II	MUSI 1117 Sight Singing & Ear Training II
MUS	1181	Piano Class I	MUSI 1181 Piano Class I
MUS	1183	Voice Class I	MUSI 1183 Voice Class I
MUS	1303	Fundamentals of Music	MUSI 1303 Fundamentals of Music
MUS	1309	American Music	MUSI 1310 American Music
MUS	1311	Music Theory I	MUSI 1311 Music Theory I
MUS	1312	Music Theory II	MUSI 1312 Music Theory II
MUS	2116	Sight Singing & Ear Training III	MUSI 2116 Sight Singing & Ear Training III
MUS	2311	Music Theory III	MUSI 2311 Music Theory III
NRM	1301	Horticulture	HORT 1301 Horticulture
NRM	2330	Wildlife Conservation & Management	AGRI 2330 Wildlife Conservation & Management
PE	1301	Introduction to Physical Fitness & Sport	PHED 1301 Foundations of Kinesiology
PE	1306	First Aid	PHED 1306 First Aid
PHIL	1301	Introduction to Philosophy	PHIL 1301 Introduction to Philosophy
PHIL	1302	Ethics	PHIL 2306 Introduction to Ethics
PHIL	1303	Logic	PHIL 2303 Introduction to Formal Logic
PHSC	1115	Physical Science Lab	PHYS 1115 Physical Science Lab I
PHSC	1315	Physical Science	PHYS 1315 Physical Science I
PHYS	1101	College Physics Lab I	PHYS 1101 College Physics I (lab)
PHYS	1102	College Physics Lab II	PHYS 1102 College Physics II (lab)
PHYS	1301	College Physics I	PHYS 1301 College Physics I (lecture)
PHYS	1302	College Physics II	PHYS 1302 College Physics II (lecture)
PHYS	2125	University Physics Lab I	PHYS 2125 University Physics Lab I
PHYS	2126	University Physics Lab II	PHYS 2126 University Physics Lab II
PHYS	2325	University Physics I	PHYS 2325 University Physics I
PHYS	2326	University Physics II	PHYS 2326 University Physics II
PS	2305	Federal Government	GOVT 2305 Federal Government
PS	2306	State Government	GOVT 2306 Texas Government
PSY	1302	Introduction to Psychology	PSYC 2301 General Psychology
SOC	2303	Introduction to Sociology	SOCI 1301 Introductory Sociology
SOC	2305	The Family	SOCI 2301 Marriage & the Family
SPAN	1411	Beginning Spanish I	SPAN 1411 Beginning Spanish I
SPAN	1412	Beginning Spanish II	SPAN 1412 Beginning Spanish II
SPAN	2311	Intermediate Spanish I	SPAN 2311 Intermediate Spanish I
SPAN	2312	Intermediate Spanish II	SPAN 2312 Intermediate Spanish II
THEA	1120	Theatre Practicum I	DRAM 1120 Theater Practicum I
THEA	1121	Theatre Practicum II	DRAM 1121 Theater Practicum II
THEA	1305	World Dance I	DANC 1305 World Dance I

## CUMULATIVE GRADE POINT AVERAGE

A student's Cumulative Grade Point Average (CGPA) is calculated by dividing the total number of quality points earned by the total number of GPA hours.

## DECLARING MAJORS, MINORS, CONCENTRATIONS, AND OPTIONS

Students must declare an academic Major by the time they earn 30 credit hours. Transfer students must declare an academic Major within one semester of enrolling in the University.

Students who choose to pursue a Minor or Concentration must declare at least one academic semester prior to the semester in which they intend to graduate.

### Minors

Minors are available in various fields of study. Normally, a minimum of 18 credit hours is required; of these, no more than 9 credits can be transfer credits.

### Declaring a Minor

If a student desires to declare a Minor, that declaration should be made before the completion of 90 credits. A student who intends to declare a Minor should have confirmation from the appropriate department that it is possible to complete all courses. Full-time students should be able to complete all of the courses by the anticipated graduation semester without adding an unnecessary burden to the academic course load—for instance, having to exceed 18 credits in the fall–spring semesters.

SRSU reserves the right to decline a full-time student's request to declare a particular Major, second Major and/or a Minor. This situation might occur when the student cannot complete the needed courses in accordance with University policies prior to the anticipated graduation date. Students must declare all Majors/Minors before their final semester to ensure completion.

### Second Degree Program

The second bachelor's degree program is designed for students who have previously earned a bachelor's degree and wish to seek a second degree in a new academic field. To receive a second bachelor's degree, students fulfill the following requirements:

- Hold a bachelor's degree from an accredited four-year college (90 credits from the first degree will be applied to the second bachelor's degree);
- Fulfill the Major requirements of the department chosen for the second bachelor's degree;
- Earn a minimum of 30 credits in graded coursework toward the second degree at SRSU; and,
- Maintain a Cumulative Grade Point Average and a Major Grade Point Average of 2.0. Departments may designate courses within the Major in which students must receive a minimum grade of C.



## DEGREE REQUIREMENTS

### General

In accordance with the Southern Association of Colleges and Schools – Commission on Colleges (SACSCOC), SRSU organizes undergraduate degree requirements into three categories: 1) General Education (Core) Requirements, 2) Other (elective or prescribed elective) requirements, and 3) Major requirements.

- General Education courses are mandated by the Texas Higher Education College Board (THECB) and should generally be taken at the Freshman and Sophomore level. Specific requirements related to general education courses are explained in more detail within the Catalog.
- Other coursework requirements vary according to the degree pursued. In general, courses in this category include college-specific requirements for the Program of Study, program-specific requirements for the Program of Study, and elective courses that serve as a prerequisite for other courses included in the Major requirements of the selected program of study.
- Major requirements comprise a minimum of 25% of the total credit hours required to complete the Program of Study although each Program of Study determines the number of credit hours required in this category. This category of degree requirements consist of a specified group of courses in a particular discipline(s) or field(s). A minimum of 50% of the courses included in the Major discipline requirements must be at the 3000+ level. A minimum of 50% of the credit hours used to satisfy the Major discipline requirements must be taken at SRSU.

Major requirements may include a Concentration or Option, depending on the specific Program of Study addressed. A Concentration is an alternative track of courses within a Major or Option, accounting for at least 30% of the Major requirements. An Option is an alternative track of courses within a Major, accounting for 50% to 80% of the Major requirements. Specific requirements for the Concentrations and/or Options offered at SRSU may be found in the degree requirements explanation for a specific Major.

Some degree Programs of Study include additional requirements such as satisfactory performance on one or more assessments, licensing examination scores, completion of an internship or capstone experience, or other elements included in the Program. Specific requirements may be found in the appropriate section of the catalog describing a specific Major.

### Degree Requirements – Student Responsibilities

Students are expected to familiarize themselves with the Undergraduate Catalog and satisfy all published degree requirements. Failure to do so does not provide a basis for exceptions to academic requirements or policies. Students will receive assistance from advisors, but students must assume full responsibility for completing published degree requirements.

- Students must fulfill the following requirements:
- The student must complete additional hours to total 120 semester credit hours.
- A cumulative grade point average of 2.0, including a minimum of 2.0 in the major is required for graduation.
- A minimum of thirty-six advanced semester hours must be completed, including at least fifteen in residence at Sul Ross State University.
- A minimum of thirty semester hours must be completed in residence.
- Under no circumstances may more than 65 of the total semester hours required for a degree



- be presented in one discipline.
- No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

## **DISTANCE/ONLINE LEARNING**

Distance Learning is a formal educational process in which the majority of instruction (interaction between instructors and students) occurs when students and instructors are not in the same physical location. Distance Learning courses may employ the internet, broadcast, audio, video, or recordings. Instruction may be asynchronous or synchronous.

**Asynchronous Learning** uses online learning resources to facilitate instruction outside the constraints of time and location, meaning students may take courses to accommodate their busy schedules. Asynchronous course content at SRSU is available through Blackboard, a course management system (CMS). Online degree programs and courses are generally asynchronous.

**Synchronous Learning** refers to instruction that occurs at a designated class time through synchronous tools such as Blackboard, Adobe Connect, WebEx, Zoom, and Skype. Synchronous instruction requires students to attend online classes on a regular schedule.

To protect the integrity of its educational courses and programs, the University takes measures to ensure a student awarded academic credit is the same student who successfully completes course requirements. Students enrolled in any distance learning course may be required to participate in authentication methods such as a) secure login and pass code, b) proctored examinations, or c) new or other technologies and practices that are effective in verifying student identification. There may be additional charges associated with proctored examinations or other verification processes. If applicable, this authentication requirement and associated fees will be clearly stated on the course syllabus or registration materials.

## **DOUBLE MAJORS AND DUAL DEGREES**

### **Requirements for Dual Bachelor's Degree**

If two bachelor's degrees are conferred simultaneously, the student must meet the requirements for both degrees and complete a minimum of 33 hours beyond the requirements of a single degree.

Students who wish to earn two baccalaureate degrees at SRSU simultaneously may do so, provided the Majors have different degree designations (e.g., Bachelor of Arts, Bachelor of Science, etc.) and they:

1. Complete all requirements for both degrees;
2. Meet all quality point average and grade requirements applicable to both degrees;
3. Develop degree plans with both colleges if the two degrees being sought are in different Colleges;
4. Meet the requirement for each degree Major (typically, the last 30 or 25% of the earned credits must be taken at SRSU – students should check with their College for specific requirements); and
5. Students cannot declare a Minor in the area in which the other baccalaureate is being earned.

Applications to graduate must be submitted to each College conferring a degree and degree audits must be performed by each. Graduation will occur only when the student has completed requirements

for both degrees. Students completing two bachelor's degrees will receive two diplomas. The student must complete a dual degree application form available from the Center for Enrollment Services.

Students who have already earned one baccalaureate degree may not elect the dual degree option. They may instead seek a second and third baccalaureate degree. See "Requirements for Additional Baccalaureate Degree(s)" in this catalog.

### **Requirements for a Double Major**

A student who fulfills the specified requirements for two different major fields authorized under a single degree has completed a double major and will receive a single diploma. An example of a single degree with a double major is the Bachelor of Science degree with a double major in Kinesiology and Biology. If both majors are not authorized under the same degree, the student would seek a dual bachelor's degree – not a double major.

The student must elect the second major by completing the change of information form available from the Center for Enrollment Services.

## **ELIGIBILITY TO REPRESENT THE UNIVERSITY**

No student will be permitted to represent the University unless she/he is classified as a full-time student. Students may participate as members, substitutes, or officers so long as they are enrolled for at least six semester hours unless otherwise indicated by a particular unit or organization. Organizations may include dramatic, literary, musical or other types including Student Government.

## **FACULTY-DIRECTED INSTRUCTION**

Direct instruction is defined as faculty lead or assigned activities that lead to student learning. This may include but is not limited to traditional lecture, facilitating seminars, giving feedback on individual or group projects, reflection/feedback of student work, feedback on group work, individual or group project feedback/facilitation, reviewing drafts of papers, or projects and other activities that engage the students in learning the material. This description will be noted in the course syllabus.

### **Online Courses**

All distance education courses (i.e. online, hybrid, blended) align with the credit hour policies and definitions above stated. Distance education course learning objectives, assignments, and assessments are comparable to in-seat courses and require at least as many hours of study and provide the same rigor and, thus, result in the same credit hours awarded upon completion.

### **Application of Federal Credit-Hour Policy to SRSU Instruction**

**Accelerated Sessions:** Courses offered within the standard semester in which the credit hours offered are the same as standard semester courses. The content and substantive learning outcomes are the same. These courses have the required 2250 contact minutes, and/or meet in hybrid or online format.

**Lecture/Seminar:** Course focuses on principles, concepts or ideas, lecture, discussion, and demonstration. A semester credit hour is earned for a minimum of fifteen, 50-minute sessions of direct faculty instruction and a minimum of two hours of student preparation time outside of class per week throughout the semester. A typical three-credit hour course meets for three, 50- minute sessions or two, 75-minute sessions a week for at least fifteen weeks. Most lecture and seminar courses are awarded 3 credits.

**Laboratory:** Practical application courses where the major focus includes “hands on” experience to support student learning (use of equipment, activities, tools, machines generally found in a laboratory). 1- 2 Laboratory credits represents a minimum of 1 hour per week of lecture or discussion plus a minimum of 2 – 4 hours of scheduled supervised or independent laboratory work.

**Internship/Field Experience:** Courses developed for independent learning and the development and application of job related or practical skills in a particular discipline. These courses allow for observation, participation, and fieldwork, and are generally offered off campus. Internship time includes a combination of supervised time by approved experts outside the university, student assignments, and time supervised by a university instructor. A 3 credit internship equals a minimum of 150 hours.

**Practicum/Student Teaching:** Courses developed for independent learning and the development and application of job related or practical skills in a particular discipline. These courses allow for observation, participation, client evaluation, fieldwork, and are offered off campus. Internship time includes a combination of supervised time by approved experts outside the university, student assignments, and time supervised by a university instructor.

**Clinical Placement:** Supervised experiences where students are afforded an opportunity to apply skills and techniques acquired from assessment and intervention-oriented course material. The number of hours varies by academic program based on clinical placement, accreditation requirements, site hour requirements, and student assignments.

**Independent Study:** Courses that permit a student to study a subject or topic in considerable depth beyond the scope of a regular course. Students meet periodically, as agreed upon with the faculty member for the duration of the course. University faculty provides guidance, criticism, and review of the student’s work. Students demonstrate competency through the completion of a final assessment either by submitting a final paper, project, or portfolio, etc. as required by the faculty member. Credit hours are assigned based on the amount of activity associated with the course, faculty supervision, and amount of student outside work. Credits conform to the standard minimum of 50 minutes of student work per credit hour, per week, for the course of the term or the semester. For a 15-week semester, this would be equal to 112.50 hours for a 3- credit independent study.

**Hybrid:** A course that is composed of both online learning and classroom learning to meet the learning objectives of the course is considered hybrid. In a hybrid course, approximately half of the course is scheduled as face-to-face, and 49% or less of the course is to be scheduled as online. For a three-credit 15-week course, up to 76.50 minutes (1.275 hours) a week are scheduled face-to-face and up to 73.50 minutes (1.225 hours) per a week are scheduled online equaling a total of 150 minutes of instruction per week.

**Online:** Approved online courses must demonstrate instruction and student learning through interactive methods to include tutorials, group discussions, virtual study/project groups, discussion boards, chat rooms, etc. Credits hours assigned to a course delivered online must equal the number of credit hour equivalency for the same course delivered face-to-face. Quality Matters standards for the design and delivery of online courses are used in online course development and faculty who teach online courses have been trained in online teaching pedagogy through quality matters.

## **FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)**

Sul Ross State University has adopted institutional procedures in compliance with The Family Educational Rights and Privacy Act of 1974 (FERPA), assuring the right of a student to review his or her educational records upon request. For more information, please inquire at the Center for Enrollment Services in Alpine or the Assistant Provost and Dean in Uvalde 830-279-3032, or the Director of Admissions and Records in Eagle Pass 830-758-5006.

### **Educational Records Defined**

(a) Educational records include those records that are:

1. Directly related to a student; and
2. Maintained by an educational agency or institution or by a party acting for the agency or institution.

(b) Educational records do not include:

1. Records that are kept in the sole possession of the maker, are used only as a personal memory aid, and are not accessible or revealed to any other person except a temporary substitute for the maker of the record.
2. Records of the law enforcement unit of an educational agency or institution, subject to the provisions of § 99.8.
3. (I) Records relating to an individual who is employed by an educational agency or institution, that:
  - (A) Are made and maintained in the normal course of business;
  - (B) Relate exclusively to the individual in that individual's capacity as an employee; and
  - (C) Are not available for use for any other purpose.
3. (II) Records relating to an individual in attendance at the agency or institution who is employed as a result of his or her status as a student are education records and not excepted under paragraph (b)(3)(i) of this definition.
4. Records on a student who is 18 years of age or older, or is attending an institution of postsecondary education, that are:
  - i. Made or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in a paraprofessional capacity;
  - ii. Made, maintained, or used only in connection with treatment of the student; and
  - iii. Disclosed only to individuals providing the treatment. For the purpose of this definition, "treatment" does not include remedial educational activities or activities that are part of the program of instruction at the agency or institution; and
5. Records created or received by an educational agency or institution after an individual is no longer a student in attendance and that are not directly related to the individual's attendance as a student.
6. Grades on peer-graded papers before they are collected and recorded by a teacher.  
(Authority: 20 U.S.C. 1232g(a)(4))
- 7.

### **Confidentiality of Educational Records**

Sul Ross State University has adopted procedures in compliance with The Family Educational Rights and Privacy Act of 1974. The Act provides students the right to review their educational records upon request. To preserve strict confidentiality of records, the University does not permit access to or release of educational records or personal information, other than directory information, or without the written consent of the student.

Exceptions to this restriction are limited to the following:

- Judicial subpoena of records, upon condition that the University makes a reasonable effort to notify the student in advance of the release of records.
- Emergency situations, if knowledge of personal information is necessary to protect the health and safety of a student or other person(s).

Directory information is defined as:

Student's name, permanent address and telephone number, Sul Ross email address, age, major field of study, dates of attendance, classification, enrollment status (full-time or part-time), participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees, honors, and awards received (including University scholarships), and the most recent educational agency or institution attended.

Students may request that the University not release directory information by completing a Request for Non-Disclosure of Directory Information form. For more information regarding your privacy rights, contact the Center for Enrollment Services or the Office of Admissions and Records in Eagle Pass 830-758-5006.

### **Gramm-Leach-Bliley Act**

In accordance with the Gramm-Leach-Bliley Act (GLB Act), Public law 106-102 (1999), Sul Ross State University protects the private non-public information of students and employees.

SRSU collects information such as:

- Name Gender
- Social Security Number
- Financial Status
- Date and location of birth
- Salary History
- Driver's License Numbers

SRSU's policy is to identify and safeguard this information with the appropriate procedures to insure compliance with the GLB Act. SRSU manages private non-public information in accordance with all applicable state and federal guidelines relating to use, disclosure and retention of private non-public information.

## **FINAL EXAM – CONFLICT RESOLUTION**

When a student is scheduled for more than one final examination in one exam period, the student may request rescheduling of one of the examinations through his/her Dean. If one of the exams is a group final exam, then attempts to reschedule non-group exams should be made first. The Dean, Department Chair, and faculty member will make every effort to accommodate the student when such a request is made. Final examinations for classes meeting at times other than those posted by The Registrar's Office will be scheduled during the week of finals at a time agreed upon by the faculty member and students. The Registrar's Office in conjunction with the Office of Academic Affairs are the final authority should agreements not be reached at the departmental level.

## **FIRST YEAR SEMINAR (ALPINE CAMPUS)**

All new incoming students to Sul Ross State University with fewer than thirty semester credit hours (sch) are required to take SRSU 1101, First Year Seminar, or an equivalent course. Students, invited to be part of the Freshmen Leadership Program, will meet the requirement with their FLP 1101 course completion.

Students admitted into the College of Agricultural and Natural Resource Sciences fill the requirement by completion of ANSC 1101 or NRM 1101.

SRSU 1101, a one semester-credit-hour course, is taught by faculty and staff representing departments across campus and is designed to foster student success, development, and transition into, through and out of Sul Ross State University.

Students, who transfer into Sul Ross State University, may be exempt from meeting the first year seminar requirement.

Students are exempt if:

- They transfer 12 semester credit hours or more (excluding dual credit hours) and have a grade point average of 2.5 or higher;
- They are 24 years of age or older and never have attended college, are also exempt from meeting the first year seminar requirement.

If a student has taken an equivalent course at another university, e.g., College 101, University 101, the transferred course may be substituted for SRSU 1101.

## **FULL TIME STUDENT**

Any undergraduate student who registers for twelve or more semester credit hours in the University during a long semester is considered a full-time student. Any undergraduate student who registers for six or more semester credit hours during a summer term (summer I or summer II) is considered a full-time student.

Full-time graduate student information is found in the Graduate Information section of this Catalog.



## **GENERAL EDUCATION (CORE) – ASSESSMENT**

Educational assessment is the systematic collection, analysis, and use of data related to academic programs. The General Education Assessment is designed to measure the extent to which students have attained those competencies identified by the university. Data collected will be used for program improvement purposes rather than determination of individual student progression through a program of study. Participation in assessment activities related to general education goals is a requirement for all undergraduate students.

## **GRADE REPORTS**

The University reports grades at the end of each semester for all students. Only the grades reported at the end of the semester (final grades) are used in the computation of the student's Grade Point Averages and Academic Standing. Mid-term grades may be given and are simply an indication of a student's progress.

The University does not mail final grade reports. Students may access their grades through Lobo OnLine.

## **GRADUATION – GENERAL**

The University awards degrees in May, August and December. Students must complete all degree requirements and apply for graduation by the published due date.

## **GRADUATION REQUIREMENTS**

### **General**

A student must meet all the requirements for a degree in their Catalog. A student is assigned their Catalog (by year) corresponding to their acceptance to the University. All undergraduate degrees at SRSU require a minimum of 120 credits. A student who withdraws, or is withdrawn from the institution (either voluntary or by compulsion), is assigned a new Catalog (by year) upon readmission to the University. The catalog in force prior to withdrawal may be elected as allowed under current policy (see Catalog Year.) A student may elect to change their Program of Study/Major at any time during their academic tenure. Students may not change their Catalog, Major, Minor, Concentration, or Option in the term of their graduation.

There are several requirements which must be completed by all students prior to graduation.

The student must:

1. Complete all academic requirements for a degree based on their Catalog. This includes the General Education requirements, Other requirements, and Major or Minor requirements of the particular Program of Study in which the student is enrolled;
2. Attain a minimum Cumulative Grade Point Average of 2.0 (note: some Programs of Study require a higher minimum Cumulative Grade Point Average or a minimum Grade Point Average for the Major requirements);
3. Ascertain, through the College of the Major, that her/his academic record is accurate and complete. This should be done not later than one semester prior to graduation;
4. Submit an application to the Registrar's Office by the published deadline. The student will be required to make this formal application and state the exact name to appear on the diploma;



5. Pay the graduation application fee. A student who has previously paid an application fee, but who failed to graduate at the time expected, must re-apply and pay the insert fee;
6. Satisfy all assessment requirements associated with the student's Program of Study;
7. Satisfy all financial indebtedness to the University cleared prior to graduation; and
8. Complete an exit interview for Financial Aid, if applicable.
9. Graduating students must be enrolled at Sul Ross State University in the term in which they apply for graduation. Students not enrolled at SRSU during the semester they plan to graduate who are completing coursework at another institution will not be cleared to graduate.

A student who does not follow and complete the above requirements and procedures will not be allowed to graduate.

### **Graduation – Application**

**Alpine:** Applications to graduate must be submitted to the Registrar. Forms are available online at [www.sulross.edu/registrar](http://www.sulross.edu/registrar). A student is expected to submit an application for graduation by the application deadline or before the final semester of enrollment and pay applicable fees. Students who are not able to complete degree requirements as planned will resubmit the application during the semester or summer term in which they expect to graduate. The University Calendar at the front of this Catalog should be consulted for the graduation application deadlines.

**RGC:** Forms may be obtained from the Dean's office of Rio Grande College or any of the Business Services offices at any of the three sites or online under Forms and Downloads. A diploma fee of \$30.00 is required. A student is expected to submit an application for graduation during the semester preceding the final semester of enrollment. Students who are not able to complete degree requirements as planned will re-submit the application during the semester or summer term at the end of which they expect to graduate. Applications which must be resubmitted require a \$5.00 diploma insert fee. The University Calendar at the front of this catalog should be consulted for a specific deadline for applying to graduate. Students applying after the posted deadline for application in the Academic Calendar must also pay a \$25.00 late application fee.

Note: ALL Undergraduate students may not apply for graduation if the core curriculum requirements are not completed one semester prior to the semester in which the student plans to graduate. Official transcripts must be sent to Sul Ross RGC for all courses taken at other colleges or universities.

### **Commencement**

Commencement ceremonies for the awarding of degrees to candidates are held at the end of the spring semester and at the end of the fall semester on the dates listed in the University Calendar. Students graduating in August may participate the December commencement exercise. Graduates are expected to participate in commencement. Information and instructions concerning commencement will be e-mailed to each candidate prior to graduation. Please see the Graduation and Commencement page for additional details.

## **Graduation with Honors**

Those seeking a baccalaureate degree and who compile outstanding academic records receive special recognition at graduation. Each student receiving a degree conferred Cum Laude, Magna Cum Laude, or Summa Cum Laude will receive a gold cord, which symbolizes academic excellence. In addition, this recognition will be recorded on the transcript. The distinction and corresponding grade point averages are Cum Laude – 3.50 to 3.69; Magna Cum Laude – 3.70 to 3.89; Summa Cum Laude – 3.90 to 4.00.

Graduation with honors is based on the student's cumulative grade point average for work completed at SRSU and all other institutions the student attended.

## **Minimum requirements for additional Baccalaureate degree(s)**

A student who holds one baccalaureate degree from Sul Ross State University or from any college or university that is a member of a regional accrediting association may receive additional baccalaureate degree(s) by completing the following requirements:

1. A minimum of thirty-three additional semester hours, including twenty-four semester hours of advanced work in residence.
2. Completion of requirements in the major subject field, including a minimum of eighteen semester hours of advanced work.
3. Completion of all requirements of the degree sought as determined by the appropriate academic department.
4. Completion of the core curriculum if not completed with the first degree.

## **Graduation Requirements – Residency**

For all undergraduate students, 24 of the last 30 credits must be taken at SRSU. A transfer student or a student who enters with advanced standing from another university and becomes a candidate for a bachelor's degree at SRSU must fulfill a minimum requirement of two semesters (Fall, Spring or Summer) at SRSU and must earn at least 30 credit hours required for the degree through instruction offered by the University. A minimum of 50% of the courses included in the Major discipline requirements in a SRSU Program of Study must be taken at SRSU. No credit earned at a community or junior college may be used for credit at the 3000\* or 4000 course level. Additional restrictions may apply.

\* a course specifically designed as part of an Official Articulation or Memorandum of Understanding between institutions may be applied to an upper level course requirement but will not satisfy upper level credit requirements.

## **Graduation Requirements – Substitutions and Waivers of Degree Requirements**

Articulated courses from other institutions for which there are established articulation agreements are not accrued against the total number of allowed substitutions or waivers. Articulated courses are established equivalencies to SRSU's courses and therefore meet Program requirements without accrual toward substitution or waiver limitations.

A substitution is defined as a course that is outside of the prescribed curricula that is used to substitute for a course that is within the prescribed curricula. At SRSU, no more than five (5) courses may be substituted at the Major level within a prescribed curriculum.

A waiver is defined as an exception to a required Program of Study component. In addition, some Programs of Study require external benchmarks such as meeting a minimum score on a required test and/or other courses or series of courses to satisfy a particular Learning Objective. Students are

encouraged to discuss any deviation of prescribed coursework with their advisor. Waivers of degree requirements must be approved by the Academic Advisor, the Dean of the College, and the Provost. A Waiver does not waive credit hour requirements toward total credits required for Graduation (e.g., 120).

## **LOWER DIVISION COURSES**

Lower Division Courses are those courses at SRSU taught primarily at the Freshman and Sophomore level. These courses are generally identified in the course numbering rubric as '1000' or '2000' level.

## **MATRICULANT STATUS**

A Matriculant is a student who has been officially admitted by the University as a candidate for an academic credential. Matriculants are guaranteed SRSU will provide the courses they are required to fulfill the requirements for the credential. In order to maintain matriculant status a student must complete academic coursework. The Catalog (Catalog Year) in effect when a student matriculates contains the policies and requirements under which the student must satisfy graduate.

## **MAXIMUM AND MINIMUM WORK**

The maximum number of hours, which may be attempted, include all semester hours attempted at all institutions, including resident courses at Sul Ross and at other institutions.

The University may refuse to accept for transfer credit any credit earned from other institutions while simultaneously enrolled at Sul Ross if the combined total semester hours exceeds the number allowed.

### **One Long Semester**

The maximum student load for a fall or spring semester for undergraduate students who are not on probation is twenty-one semester hours, including one-hour courses.

### **Summer Session**

The maximum course load for an undergraduate student is twelve total semester hours for the summer term. No more than 8 semester hours can be earned in either Session A or Session B within the Full Term.

Excessive hours in any term must be recommended by the student's advisor and approved by the Department Chair and College Dean.

Maximum course loads for graduate students is found in the Graduate Information section of this catalog.

## **MAXIMUM TIME TOWARDS DEGREE ON CATALOG**

The maximal period of time for which the provisions of any Catalog may be considered valid is 6 years. Students who began a degree program six or more years prior to the date of their anticipated graduation must consult their academic dean to determine which Catalog must be followed.

## **MILITARY SERVICE MOBILIZATION/ACTIVATION**

SRSU is committed to supporting its students qualifying for institutional services because of mobilization or activation. Students called to active duty or mobilized for any reason should contact the Registrar's Office (even if they aren't receiving VA benefits) for information and further instruction.

## **MINORS**

A Minor is that part of a Degree program which consists of a specified group of courses in a particular discipline or field, consisting of a minimum of 15% or more of total hours required in the Program of Study. A minimum of 50% of the courses included in the Minor requirements must be at the 3000+ level. A minimum of 50% of the credit hours used to satisfy the Minor requirements must be taken at SRSU.

## **QUALITY ENHANCEMENT PLAN**

As a requirement for the Southern Association of Colleges and Schools Commission on Colleges, SRSU/RGC must implement a Quality Enhancement Plan (QEP) for the students to begin in 2018-2019. Faculty, staff, and students have worked since fall 2015 to develop our QEP that focuses on building students' communication skills through courses that incorporate instruction on writing, oral, and visual strategies. These courses are designated as Mapped Courses, and they are open for junior and senior students. There are 10 courses in the 2018- 2019 Course Catalog, and more will be added each year for students to select.

## **REGISTRATION**

### **Registration – General**

New students plan their courses and register in consultation with an academic advisor prior to the beginning of their first semester. New part-time students must make an appointment with their academic advisor to obtain information on the Program of Study they plan to pursue and have transfer credits reviewed.

A student's SRSU email account is the primary vehicle for communicating administrative or transactional information to students. The registration deadline is usually one week prior to the opening of classes each term. Currently enrolled students have an early registration period toward the close of each semester for the following term. Registration must be performed online via the student portal – Lobo Online.

Tuition and Fees must be paid. A complete bill is available to each student via Lobo Online. It is imperative students check their SRSU email regularly for reminders regarding tuition and fee payment deadlines or other information regarding dates for payment, registration, drop/add, withdrawal, or graduation. Payment of tuition and fees is due approximately one week before classes begin each term. SRSU offers multiple payment plans and students are encouraged to contact the Business Office to discuss options.

**No one may register/enroll in any enrollment period after the official registration period indicated in the University Calendar. No student will be permitted to remain in class unless the instructor has received evidence of proper registration (which includes payment).**

## **Registration – Adding Courses for Credit**

Courses may be added for credit only during Registration (Drop/Add) period for a given term. Students are required to monitor the official University Academic Calendar for all dates surrounding registration changes and charges associated with these changes.

## **Registration Concurrent Registration**

A student registered at SRSU may not automatically receive degree credit at SRSU for any work taken concurrently at another college or university or by correspondence study. Any work taken concurrently at another college or university would be subject to SRSU's transfer articulation policies and evaluation criteria. Students are strongly encouraged to check with their Academic Advisor before enrolling for credit at another college, university, or through correspondence study.

## **Registration – Dropping Courses**

Courses may be “dropped” during the Registration, Drop/Add period for a given term. Students are required to monitor the official Academic Calendar regarding scheduling dates and their particular access to registration via their Lobo Online portal. Students should be aware there are differing dates and associated fees for registration actions (adding vs. dropping). Please consult The Catalog for charges associated with dropping and adding courses.

Students should be aware there could be financial aid implications for dropping a course. Students are encouraged to contact the Office of Financial Aid before dropping courses.

Students will not be allowed to drop a course after the published end date. Students who fail to drop courses by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester.

A student may be dropped, at the discretion of the Dean of the College, from any course for which the student is ineligible.

Failure to attend class does not constitute a course drop. Withdrawn courses reduce a student's enrolled hours, but not the student's financial obligation (see section on Withdrawal from the University).

Students are strongly encouraged to review the ‘Six Drop Rule’ as mandated by the State of Texas and outlined later in this document.

## **Requirements for All First-Time Full-Time Freshman**

All first-time full-time freshmen are required to enroll and successfully pass SRSU-1101 or equivalent during their first year of enrollment.

All students are required to be advised by their Academic Advisor before registration in a succeeding term. Students are encouraged to meet with their Advisor at their earliest convenience.

## **Penalty for Non-Payment of Tuition and Fees**

Students who do not complete payment of tuition and fees by the date specified each semester may be withdrawn from the class at the discretion of the Business Office. Non-payment is not a means of dropping a class. Re-registration is possible before class begins or during the Drop/Add period, on a space available basis, with payment of an additional registration fee.

## **Change of Registration – exceptions**

Changes in registration/enrollment must be made before the end of the Drop/Add Period. Once the Drop/Add Period is complete, students may not add a course or change sections of the same course.

To withdraw from a course after the Drop/Add Period, the student must do so by completing a Course Withdrawal Form. The completed form is filed with the Registrar's Office. The deadline for withdrawing from a course is published in the academic calendar. Students who stop attending class, and do not officially withdraw, will be assigned a grade of "FX" and are financially responsible for the full tuition charged for the course.

Students should visit the financial aid office before dropping courses or before they withdraw from their last course in any term. It is the student's responsibility to follow financial aid guidelines.

## **Schedule Changes**

Courses may be added during the regular and late registration periods for the term. Courses may be dropped through the last day to drop a course. Courses dropped through the official Census date for the term do not appear on the student's permanent record. Courses dropped after the official census date for the term through the last day to drop a course will be assigned a grade of "W" or "WX" (refer to the Six Drop Rule in this catalog for more information). No courses may be dropped after the published last day to drop or withdraw.

Dropping all classes on or after the first day of a term is considered a withdrawal. An official withdrawal form must be completed and submitted to the Center for Enrollment Services in Alpine or the Office of Admissions and Records, RGC.

Withdrawal prior to the official census date for the term will result in no academic record for the term. A withdrawal after the official census date for the term through the last day to withdraw will result in the creation of an academic record; all classes will be reported with a grade of "W". Requests for withdrawal will not be processed after the published last day to withdraw.

Schedule change and withdrawal forms be found online at: [www.sulross.edu/registrar](http://www.sulross.edu/registrar).

Dates for registration periods, official census dates, and last day to drop or withdraw are published on the University's calendar at [www.sulross.edu](http://www.sulross.edu). The refund policy for dropped courses and withdrawals may be found in this catalog and online at [www.sulross.edu](http://www.sulross.edu).

## **RESIDENCY**

For all undergraduate students, 24 of the last 30 credits must be taken at SRSU. A transfer student or a student who enters with advanced standing from another university and becomes a candidate for a bachelor's degree at SRSU must fulfill a minimum requirement of two semesters (Fall, Spring or Summer) at SRSU and must earn at least 30 credit hours required for the degree through instruction offered by the University. A minimum of 50% of the courses included in the Major discipline requirements in a SRSU Program of Study must be taken at SRSU. No credit earned at a community or junior college may be used for credit at the 3000\* or 4000 course level. Additional restrictions may apply.

\* a course specifically designed as part of an Official Articulation or Memorandum of Understanding between institutions may be applied to an upper level course requirement but will not satisfy upper level credit requirements.



## RESIDENCY FOR TUITION

The determination of residency classification for tuition purposes is governed by statutes enacted by the Texas Legislature and rules and regulations promulgated by the Texas Higher Education Coordinating Board. Texas Higher Education Coordinating Board Rules are available at [www.collegeforalltexans.com](http://www.collegeforalltexans.com).

A student or applicant is classified either as a resident of Texas, a non-resident, or a foreign student for tuition purposes. An individual's residency classification is based on information from his or her admission application.

If an applicant or student is classified as a non-resident and wishes to be considered for reclassification as a resident, the Residency Core Questions must be submitted to the Office of the Registrar. Documentation may be requested by the institution in order to resolve issues raised by the information provided in response to the Residency Core Questions.

It is the duty of each student to register under the proper residency classification and pay the appropriate tuition and fees. If there is any possible question whether or not a student qualifies as a resident of Texas, he or she should consult with the Registrar in the Center for Enrollment Services at (432) 837-8049 or Box C-2, Sul Ross State University, Alpine, Texas, 79832.

## SIX DROP RULE

Students Who Were Enrolled in an Undergraduate Program at a Texas Public College or University Before Fall 2007 The grade of "W" is given for courses dropped after the official census date for the term through the last day to drop a course with a "W" as published in the University's calendar.

Students who wait until the published deadline must have complied with the class attendance policy of this catalog. An instructor is not obligated to recommend a "W" for a class if excessive absences have occurred. Students will not be permitted to drop a course or withdraw from the University after the published deadline.

Students Who Enroll in an Undergraduate Program at a Texas Public College or University Beginning Fall 2007 and Thereafter Students who began an undergraduate program in Fall 2007 or later at any Texas public college or university are not allowed to drop more than six courses without penalty as long as they are enrolled in any such undergraduate program. This includes courses transferred from another public institution of higher education in Texas begun in Fall 2007 or after. College credit taken while enrolled in high school and below college credit courses do not count toward the total of six courses.

Any student who drops a course after the official census date of the term will receive a grade of "WX". A student who drops a course and who has reached a total of six "WX" grades (including those transferred from other Texas public institutions) will receive a grade of "F" for all future drops.

Any course taught on a shortened format or between regularly scheduled terms will have add/drop, "WX" grade and withdrawal dates proportionally the same as if the course were offered in a regular term. These dates will be determined by the Center for Enrollment Services.



Unusual circumstances may be considered if the student can show good cause for dropping more than the allowed limit of six courses, including but not limited to:

- A severe illness or other debilitating condition that affects the student's ability to satisfactorily complete the course;
- The student's responsibility for the care of a sick, injured, or needy person if the provision of that care affects the student's ability to satisfactorily complete the course;
- The death of a person who is considered to be a member of the student's family who is otherwise considered to have a sufficiently close relationship to the student that the person's death is considered to be a showing of good cause;
- The active duty service as a member of the Texas National Guard or the armed forces of the United States of either the student or a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's active military service is considered to be a showing of good cause;
- The change of the student's work schedule that is beyond the control of the student, and that affects the student's ability to satisfactorily complete the course;
- The loss of transportation causing the student a hardship with the commute to the campus;
- The loss of child care that necessitates student to remain at home with dependent children; or,
- The lack of financial resources to meet requirements of course (supplies, travel, etc.).

If an appeal for unusual circumstance is approved, the student will receive a grade of "W" for the course. The decision of the Registrar shall be final. Courses in which a grade of "W" is approved will not be counted in the six total limits.

## **STATUTE OF LIMITATIONS**

In the absence of any designated time limits in documents on policies or procedures, the University imposes a time limit of one year for the initiation of any request for an exception to its rules or regulations.

## **STUDENT HANDBOOK**

The Sul Ross State University Student Handbook is an official student policy. The SRSU Student Handbook describes what is expected of a student with respect to behavior and conduct in the SRSU community and outlines the procedures to be followed when these expectations are not met. The Student Handbook includes the Code of Student Conduct as well as other rules, regulations, and policies governing student life.

## **STUDENT IDENTIFICATION CARD**

Each student is issued a permanent identification card, including a photograph, and a student number. This card will be used for the entire duration of the student's enrollment at the University. The card is required for borrowing library books, cashing personal checks, admittance to athletic and social events, selling used textbooks, Testing Services, meal plans, entrance into university buildings – including residence halls, and other official purposes. Fraudulent use of the ID card is a violation of the Honor Code and will result in disciplinary action. The card is issued to the individual student and must not be loaned to another person for any reason. Any University official having just cause has the right to request that a student show the identification card for identification purposes. Upon such a request by a University official, the student is required to comply.

## **STUDENT STATUS AND COURSE LOAD – FULL-TIME/PART-TIME STATUS**

Full-time status requires an undergraduate student carry a minimum of 12 credits. The normal course load for a full-time student is 15-18 credits during the fall and spring terms

Students are limited to a maximum course load of twelve credits during the summer term.

Students carrying 11 credits or fewer are part-time.

## **TERM/SEMESTER GRADE POINT AVERAGE**

A student's Semester/Term Grade Point Average (TGPA) is calculated by dividing the total number of quality points earned in the semester by the total number of GPA hours attempted in the semester.

## **TEXAS SUCCESS INITIATIVE**

Texas law requires institutions of higher education to assess the academic skills of each entering undergraduate student to determine the student's readiness to enroll in freshman-level academic course work. The assessment or the results of the assessment may not be used as a condition of admission to the institution.

Sul Ross State University utilizes the Texas Success Initiative Assessment (TSIA), an assessment instrument approved by the Texas Higher Education Coordinating Board that is diagnostic in nature and designed to assess a student's readiness to perform freshman-level academic course work.

Sul Ross State University has established a program to advise students regarding course work and other means by which students can develop the academic skills required to successfully complete college-level work.

If a student fails to meet the assessment standards, Sul Ross State University will work with the student to develop a plan to assist the student in becoming ready to perform freshman-level academic course work. Plans are designed on an individual basis to provide the best opportunity for each student to attain that readiness.

Sul Ross State University may refer a student to pre-college course work as considered necessary to address a student's deficiencies in readiness to perform freshman-level academic course work. We will not require enrollment in developmental course work with respect to a student previously determined by any institution of higher education to have met college readiness standards.

A student who has achieved certain minimum scores on the Scholastic Assessment Test (SAT), the American College Test (ACT), the Texas Assessment of Knowledge and Skills (TAKS), or the STARR end-of-course exams may be exempt from these requirements.

The Texas Success Initiative does not apply to:

- a. a student who has graduated with an associate or baccalaureate degree from an institution of higher education;
- b. a student who transfers to an institution of higher education from a private or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level coursework;
- c. a student who is enrolled in a certificate program of one year or less (Level-One

- certificates, 42 or fewer semester credit hours or the equivalent) at a public junior college, a public technical institute, or a public state college;
- d. a student who is serving on active duty as a member of:
    - i. the armed forces of the United States; or
    - ii. the Texas National Guard
  - e. a student who is currently serving as and, for at least the three-year period preceding enrollment, has served as a member of a reserve component of the armed forces of the United States; or
  - f. a student who on or after August 1, 1990, was honorably discharged, retired, or released from:
    - i. active duty as a member of the armed forces of the United States or the Texas National Guard; or
    - ii. b. service as a member of a reserve component of the armed forces of the United States
  - g. a non-degree-seeking or non-certificate-seeking student.

The Academic Support Center professional advisors determine placement for TSI development courses utilizing an Individual Education Plan.

For additional information on who must participate in the Texas Success Initiative, prospective students should contact The Academic Support Center or the Career Services and Testing Office at Sul Ross State University.

## **TRANSFER CREDIT POLICY**

### **Transfer Credit—Undergraduate, General**

All collegiate-level academic courses (excluding developmental, remedial, vocational/technical, continuing education, or lifelong learning courses) attempted at a regionally accredited U.S. college or university will be transferred. Sul Ross reserves the right to accept courses taken at U.S. schools other than regionally accredited colleges or universities.

A minimum of thirty semester hours, or 25% of the semester credit hours required for a degree must be completed in residence. No more than ninety total transfer hours may be applied to a degree.

Only 6 semester credit hours of the last 30 semester credit hours can be transfer credit.

Grades received on transfer credit are used in the calculation of the student's overall GPA.

### **Transfer Credit—Undergraduate Degree Requirements**

Applicability of transferred courses to degree course requirements is determined by the following:

1. In accordance with Texas Higher Education Coordinating Board rules Sul Ross State University has identified each lower-division course that is substantially equivalent to an academic course listed in the current edition of the Lower Division Academic Course Guide Manual. To facilitate the transfer of these courses, Sul Ross participates in the Texas Common Course Numbering System (TCCNS).
2. Course equivalencies as described in articulation agreements.
3. If neither of the above conditions apply, admissions staff will review catalog descriptions and consult with appropriate departments and faculty as necessary to determine appropriate equivalencies. Courses with no equivalent to Sul Ross courses are

transferred as “non- equivalent,” with credit value and course equivalent to the credit value and the level awarded by the transfer institution.

4. Non-equivalent courses may be applied to degree requirements by individual departments and colleges, using the formal substitution process.
5. Individual Departments and Colleges will make the determination if credit earned at a community or junior college may be applied to an advanced course requirement. While a lower division course may meet an upper division course requirement, it will not be articulated as an upper division course and may not be used to meet advanced credit hour requirements.
6. Undergraduate courses taken elsewhere that may count toward teacher certification are evaluated by the certification staff in the Department of Education.

### **Transfer Credit—Undergraduate, Advanced hour requirement**

A minimum of thirty-six advanced semester hours must be completed, including at least fifteen in residence at Sul Ross State University. Courses taken at community colleges do not satisfy the advanced hours requirement.

If the degree requires more than thirty-six advanced hours, the Department or College can require that transfer students complete the total number of advanced hours for the degree.

## **TRANSFER DISPUTE RESOLUTION**

The Texas Higher Education Coordinating Board has established guidelines for resolving transfer disputes between Texas colleges and universities. These guidelines are designed to facilitate the transfer of lower division courses and to clarify for students what their rights and responsibilities are as potential transfer students. Specifically excluded are courses designated as ESL/ESOL, technical, developmental, or remedial.

Lower division credit is defined as those courses offered in the first two years of college study which:

- a) are identified by a majority of public four-year undergraduate institutions in the state as courses intended to comprise the first two years of college study,
- b) stress development of disciplinary knowledge and skill at an introductory level, and,
- c) includes basic principles and verbal, mathematical, and scientific concepts associated with an academic discipline.

Upper division credit is defined as those courses offered only in the third or fourth years of a baccalaureate program which

- a) are identified by a majority of public four-year undergraduate institutions in the state as courses intended to comprise the third and fourth years of post-secondary study,
- b) involve theoretical or analytical specialization beyond the introductory level, or,
- c) requires knowledge and skills provided by previous courses for successful performance.

The Coordinating Board has also provided for a state-wide appeal procedure concerning the evaluation of transfer credit. This appeal must be filed within 15 calendar days after the SRSU evaluation has been made available to the student through Lobo OnLine. Before filing the appeal, the student must complete the on-campus transfer dispute resolution process.

A student with a question regarding the evaluation of transfer credit should immediately direct the question to the Center for Enrollment Services on the Alpine campus or Admissions and Records for RGC. If, after research by admissions personnel, the problem resolution results in a change to the

evaluation, the evaluation will be adjusted and the student will have the updated evaluation made available to them via LoboOnLine. If the evaluation is appropriate as originally prepared, admissions personnel will explain to the student how the credit was determined. If the question is one of degree applicability rather than transferability, the student will be directed to the appropriate academic dean.

If the dispute is still not resolved, Coordinating Board form, CB-TDR, "Transfer Dispute Resolution," must be completed to initiate dispute action. This appeal must be filed within 15 calendar days after the SRSU evaluation has been submitted to the student. Forms are available in the Office of the Provost and Vice President for Academic and Student Affairs Office, at the Center for Enrollment Services on the Alpine campus and Admissions and Records at RGC. Assistance in completing the form will be available in any of those offices.

If the dispute involves the transfer of credits to Sul Ross, the form must be completed by the appropriate official at the institution where the credit was earned and by the Registrar at Sul Ross. Disputes that are not resolved by the institutions involved within 45 days after written notice of denial will be forwarded to the Commissioner of Higher Education for resolution.

Sul Ross students who have difficulty having SRSU credit accepted at another Texas public institution should contact the Registrar at Sul Ross for initiation of the transfer dispute resolution process.

## **TRANSCRIPT OF RECORD**

The official permanent academic records for all SRSU students are in the custody of the Registrar's Office. Release of these records is protected by the "Family Educational Rights and Privacy Act" (FERPA). Transcripts of the academic record may be secured by the individual personally or will be released on the student's written authorization. Transcripts cannot be issued until the student or former student has settled all financial obligations to the University and has submitted all required transcripts from other colleges attended.

## **TRANSCRIPT SERVICES**

### **Online Ordering Services**

Printed hard copy transcripts, electronic transcripts, and FedEx delivery service are all available online through Credentials Solutions, Inc.

If you have your LoboOnLine credentials, you can authenticate by logging in to LoboOnLine. This allows you to avoid completing the Signature Authorization form:

1. Log into LoboOnLine.
2. Select Student tab.
3. Select Student Records.
4. Select the Order Official Transcript link – this redirects you to Credentials Solutions, Inc.
5. Follow the provided instructions to complete your order.

If you are not able to authenticate through LoboOnLine (Alumni):

1. Use Credentials Solutions, Inc. to place your order.
2. Follow the provided instructions to complete your order.
3. Use a mouse or touch screen to complete the authorization process.

When placing an order online, we recommend using Edge, Mozilla Firefox, or Safari web browsers. The pop-up blocker may need to be disabled in order to access the order page.

Federal Express delivery is only available when placing an online order. E-Transcript and First Class mail delivery is also available. Credit or debit cards are accepted for payment.

### **Free transcripts**

A Publications and Records fees was approved and assessed to all students beginning in the fall 2004 term. If you attended Sul Ross fall 2004 or later, you paid this fee and are entitled to two free paper transcripts per term in which the fee was paid. You must request your free transcript(s) in writing using the paper transcript request form. There are no “rush” options available for free paper transcripts. Processing and delivery via USPS may take up to two weeks.

Free paper transcripts are printed in either Alpine or Eagle Pass. Paper transcripts can be given to the student (valid photo ID required) or delivered by First Class mail. Federal Express delivery is only available when placing an online order through Credentials Solutions, Inc. Students are responsible for providing the correct delivery address.

In Person Requests (valid photo ID required)

## **UNIVERSITY CLOSURES**

If the University must close due to unexpected circumstances, faculty and students will have to make up missed class and laboratory time. In some circumstances resulting in closure of the University, the Provost will determine how classes will be made up. In other circumstances, the methods for making up missed classes and laboratories will be with extra assignments and readings, additional days of class or laboratory, additional class time, or in other manners to be determined.

## **UNIVERSITY DISCIPLINE**

Sul Ross State University expects of its students a high degree of honor in all phases of college life. It is the responsibility of all students to familiarize themselves with the rules and regulations governing student conduct as published whether in print or on the web, in the SRSU Student Handbook and other official publications. The authority structure for administering the judicial code is the President, through the Vice President for Student Life. Please refer to the section on Judicial and Student Assistance in this catalog and to the SRSU Student Handbook for more details.



## **UNIVERSITY SUCCESS (SRSU COURSE)**

SRSU 1101 or equivalent is a letter-graded course required for all first-time full-time freshman. Students will meet in groups led by an experienced faculty or staff member for an in-depth review of skills and issues relevant to academic and personal success at the University. Topics include time management, effective note-taking and test preparation, campus diversity, and university resources. Enrollment is restricted to students with less than 30 hours of credit only. Enrollment is optional for transfer students within their 30 hours of credit at SRSU.

## **UPPER DIVISION COURSES**

Upper Division Courses are those courses at SRSU taught primarily at the Junior and Senior level. These courses are generally identified in the course numbering rubric as '3000' or '4000' level.

## **VETERAN EDUCATION BENEFITS RECIPIENTS**

Sul Ross State University serves those students who are eligible to receive educational benefits from the Veterans Administration. Records are maintained and reports made to the Veterans Administration on behalf of veterans, dependents, active-duty servicemen, and eligible reservists enrolled in the University.

Students eligible to receive educational benefits from the Veteran's Administration must inform the Veteran's Certifying Official at each registration to insure prompt certification of enrollment. In addition to receiving the academic advisor's approval of the course schedule, these students should also confer with the Veteran's Certifying Official prior to registration concerning certification of the courses.

The Veteran's Certifying Official should also be notified of any changes in the Schedule at any time during the registration period.

Students eligible to receive educational benefits from the Veterans Administration must also have on file in the Center for Enrollment Services a degree plan by the end of the first semester of enrollment at the University.

Veterans who were legal Texas residents prior to their enlistment and who have resided in Texas at least twelve months after their discharge from the service may be eligible to enroll under the Hazelwood Act which exempts them from paying tuition. Under this act, the veteran is required to pay local specified fees. For more information, contact the Veteran's Certifying Official at (432) 837-8050 in Alpine or at (830) 703-4816 in Del Rio.

Any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or chapter 33, Post-9/11 GI Bill benefits will be allowed to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

- a) The date on which payment from VA is made to the institution.
- b) 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

Sul Ross will not impose any penalty, including the assessment of late fees, the denial of access to

classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any student because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of funds from VA under chapter 31 or 33.

### **WITHDRAWAL FROM THE UNIVERSITY FOR A TERM**

The University reserves the right to request at any time the withdrawal of a student for reasons of poor scholarship or unsatisfactory conduct or non-attendance. Students who voluntarily withdraw from the University must submit a withdrawal form.

Failure to attend classes does not constitute a withdrawal. Withdrawal eliminates a student's enrolled hours, but not the student's financial obligations.

**Caution: Withdrawing from courses may have an adverse effect on financial aid, scholarships, loan deferments, athletic eligibility, health insurance, veteran's benefits, degree requirements, or other areas. Students considering course drops or withdrawal should first check with their advisor, College, and Enrollment Services to determine if this is their best option.**



# ACADEMIC ORGANIZATION AND DEGREE PROGRAMS

## COLLEGE OF AGRICULTURAL, LIFE AND PHYSICAL SCIENCES (ALPS)

### DEPARTMENT OF ANIMAL SCIENCE

**Animal Science** ..... B.S., M.Ag., M.S.  
*Concentrations in Pre-Veterinary Medicine, Science, and Production*

**Agriculture** ..... B.S.  
*Concentrations in Agricultural Education, Agricultural Systems, Ag Business, and Sustainable Ranch Management*

### DEPARTMENT OF BIOLOGY, GEOLOGY, AND PHYSICAL SCIENCES

**Biology\*** ..... B.S., M.S.

**Chemistry** ..... B.S.

**Geology** ..... B.S., M.S.

### DEPARTMENT OF COMPUTER SCIENCE AND MATHEMATICS

**Mathematics\*** ..... B.S.  
*Concentration in Teacher Certification*

**Computer Science** ..... B.S.  
*Concentrations in Computer Science, Cyber Security, and Gaming Technology*

### DEPARTMENT OF INDUSTRIAL TECHNOLOGY

**Industrial Technology** ..... B.S.

### DEPARTMENT OF NATURAL RESOURCE MANAGEMENT

**Natural Resource Management** ..... B.S.  
*Concentrations in Ag Business, Conservation Biology, Range Management, Sustainable Ranch Management, and Wildlife Management*

**Natural Resource Conservation** ..... M.Ag.

**Range and Wildlife Management** ..... M.S.

*\*Common degree plans at Alpine, Del Rio, Eagle Pass, and Uvalde*

# COLLEGE OF LITERATURE, ARTS AND SOCIAL SCIENCES (LASS)

## ACADEMIC CENTER FOR EXCELLENCE

### DEPARTMENT OF BEHAVIORAL AND SOCIAL SCIENCES

**Communication** ..... B.A.  
*Concentrations in Broadcast Media, Interpersonal, Secondary Certification, Strategic Communication*

**History\*** ..... B.A., M.A.

**Political Science** ..... B.A., M.A.

**Public Administration** ..... M.P.A.

**Psychology\*** ..... B.A.

**Social Science\*** ..... B.A.

### DEPARTMENT OF FINE ARTS

**Art** ..... B.F.A., M.A.  
*Concentrations in Art History and Studio Art*

**Music** ..... B.M.  
*Concentrations in Instrumental and Vocal*

**Theatre** ..... B.F.A.  
*Concentrations in Acting & Directing, Technical Design, and Film Production*

### INTERDISCIPLINARY PROGRAMS

**General Studies** ..... B.A.

**Liberal Arts** ..... M.A.

### DEPARTMENT OF LANGUAGES AND LITERATURE

**English\*** ..... B.A., M.A.

**Spanish\*** ..... B.A.

*\*Common degree plans at Alpine, Del Rio, Eagle Pass, and Uvalde*

# COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES

## DEPARTMENT OF BUSINESS ADMINISTRATION

Business Administration\* ..... B.B.A., M.B.A.

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## DEPARTMENT OF EDUCATION

Education, General\* ..... M.Ed.

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Educational Diagnostician ..... M.Ed.

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Counselor Education ..... M.Ed.

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Educational Leadership\* ..... M.Ed.

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Reading\* ..... M.Ed.

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Educational Instructional Technology ..... M.Ed.

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Interdisciplinary Studies ..... B.S.

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## DEPARTMENT OF HOMELAND SECURITY AND CRIMINAL JUSTICE

Criminal Justice\* ..... B.S., M.S.

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Homeland Security ..... B.S., M.S.

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## DEPARTMENT OF KINESIOLOGY AND HUMAN PERFORMANCE

Health and Human Performance ..... M.S.

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Kinesiology and Human Performance ..... B.S.  
*Concentrations in Sport and Recreation, Athletic Training, and Teacher Certification*

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*\*Common degree plans at Alpine, Del Rio, Eagle Pass, and Uvalde*

# RIO GRANDE COLLEGE

## DEPARTMENT OF BUSINESS ADMINISTRATION

Business Administration – General Business\* ..... B.B.A., M.B.A.

Organizational Leadership ..... B.A.S.

## DEPARTMENT OF EDUCATION

Education, General\* ..... M.Ed.

Education, Counseling ..... M.Ed.

Educational Leadership\* ..... M.Ed.

Reading\* ..... M.Ed.

Interdisciplinary Studies ..... B.S.

## DEPARTMENT OF HUMANITIES

Child Development..... B.A.S.

English\* ..... B.A.

History\* ..... B.A.

Social Science ..... B.A.

Spanish\* ..... B.A.

## DEPARTMENT OF NATURAL AND BEHAVIORAL SCIENCES

Biology\* ..... B.S.

Criminal Justice\* ..... B.S.

Mathematics\* ..... B.S.

Nursing ..... B.S.N.

Psychology\* ..... B.A.

*\*Common degree plans at Alpine, Del Rio, Eagle Pass, and Uvalde*

## COMMON DEGREE PLANS AT ALL SITES

Currently, there are thirteen degree plans offered at the Rio Grande College off-campus instructional sites (Del Rio, Eagle Pass, and Uvalde) and the Alpine campus. These 13 common degree plans are designated with a yellow asterisk and listed in the SRSU Course Catalog 2018-2019.

# DEGREE AND GRADUATION REQUIREMENTS

## REQUIREMENTS FOR THE BACHELOR OF ARTS

1. **Core Curriculum: See Core Curriculum**  
(42 semester credit hours)
2. **Degree Requirements – Bachelor of Arts**  
(9-11 semester credit hours)  
Foreign Language Requirement 6-8 semester credit hours  
Literature 3 semester credit hours
3. **University Requirements** (Alpine Campus)  
(1 semester credit hour)  
**SRSU 1101 or equivalent (for details, see First Year Seminar)** 1 semester credit hour
4. **Major Field Requirements**  
(Minimum 30 semester credit hours)
  - Students must complete a major of at least thirty semester hours but no more than forty-eight of required courses, including a minimum of eighteen hours at advanced level and twelve hours in residence at Sul Ross State University. An exception is the broad field program in Social Science which requires a minimum of at least forty-eight semester hours but not more than sixty.
  - All credit courses completed in a discipline required or not, count toward the maximum semester hours allowed in the major.
  - Majors may be selected from the following disciplines:
    - Communication
    - \*Political Science
    - \*English
    - Psychology
    - General Studies
    - \*Social Science
    - History
    - Spanish
    - Interdisciplinary Studies

\*\*\*Alpine campus only  
\*\*Del Rio, Eagle Pass, and Uvalde campuses only
5. **Minor Field Requirements**
  - Students must complete a minor of at least eighteen semester hours except for General Studies and Social Science, including a minimum of six hours at the advanced level and three advanced hours in residence at Sul Ross State University.
  - Minors may be selected from any of the disciplines which qualify for a major, except General Studies, Interdisciplinary Studies and Social Science. You may choose from the following:
    - Anthropology\*

- English
- Photography\*
- Art\*
- Environmental Studies\*
- Political Science\*
- Biology Geography\*
- Professional Comm & Design\*
- Business Administration Geology\*
- Psychology Chemistry\*
- History
- Recreation Administration\*
- Communication\*
- Journalism\*
- Sociology\*
- Computer Science\*
- Kinesiology\*
- Spanish
- Criminal Justice
- Mathematics
- Theatre\*
- Diversity Studies\*
- Mexican American Studies\*
- Women's Studies\*
- Education\*

**\*Alpine campus only**

### **Additional Requirements**

1. The student must complete additional hours to total 120 semester credit hours.
2. A cumulative grade point average of 2.0, including a minimum of 2.0 in both the major and the minor, is required for graduation. A minimum of 2.5 is required in each of the teaching fields in teacher certification degree programs.
3. A minimum of thirty-six advanced semester hours must be completed, including at least fifteen in residence at Sul Ross State University.
4. A minimum of thirty semester hours must be completed in residence. If the degree requirements exceed 120 semester credit hours, a minimum of 25% of the semester credit hours required in the degree must be granted by Sul Ross State University.
5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

### **Secondary Teacher and All-Level Certification Programs**

Students who pursue the Bachelor of Arts degree with teacher certification at the secondary level must complete all degree requirements described above. In addition, students who desire certification must see the Education section of this Catalog for additional information concerning certification requirements.

## REQUIREMENTS FOR THE BACHELOR OF APPLIED SCIENCE

1. **Core Curriculum: See Core Curriculum**  
(42 semester credit hours)
2. **Major Field Requirements**
  - Students must elect an area of emphasis: Organizational Leadership or Child Development.
3. **Minor Field Requirements**
  - A minor is not required

### Additional Requirements

1. The student must complete additional hours to total 120 semester credit hours.
2. The student must complete all course requirements with a cumulative grade point average of 2.0, including a minimum of 2.0 in the major.
3. A minimum of thirty-six advanced semester hours must be completed, including at least fifteen in residence at Sul Ross State University.
4. A minimum of thirty semester hours must be completed in residence.
5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

## REQUIREMENTS FOR THE BACHELOR OF BUSINESS ADMINISTRATION

1. **Core Curriculum: See Core Curriculum**  
(42 semester credit hours)
2. **University Requirement** (Alpine Campus)  
(1 semester credit hour)  
**SRSU 1101 or equivalent (for details, see First Year Seminar)** 1 semester credit hour
3. **Major Field Requirement**
  - Students must complete fifty-four to sixty semester hours in the broad field Business Administration major, including a minimum of thirty hours at the advanced level and twelve advanced hours in residence at Sul Ross State University. Students must complete 42 semester hours of core curriculum courses. Students must complete at least thirty-nine semester hours of core courses in Business Administration and at least fifteen (15) semester hours advanced business electives.
  - Students must complete 14 semester hours of free elective courses.
4. **Minor Field Requirements**
  - A minor is not required, but with the approval of the Chair of the Department of Business Administration, students may elect to present a minor of eighteen semester hours with at least six hours at the advanced level and at least three advanced hours in residence at Sul Ross State University.

### Additional Requirements

1. The student must complete additional hours to total 120 semester credit hours.
2. The student must complete all course requirements with a cumulative grade point average of 2.0, including a minimum of 2.0 in the major and the minor (if selected). A minimum of 2.5 is required in the Business Administration teaching field in teacher education.
3. A minimum of thirty-six advanced semester hours must be completed, including at least fifteen



- in residence at Sul Ross State University.
- 4. A minimum of thirty semester hours must be completed in residence.
- 5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
- 6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
- 7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

### **Teacher Certification Programs**

Students who pursue the Bachelor of Business Administration degree with teacher certification at the secondary level must complete all degree requirements described above. In addition, students who desire certification must see the Education section of this Catalog, and your advisor, for additional information concerning certification requirements.

## **REQUIREMENTS FOR THE BACHELOR OF FINE ARTS – ART/THEATRE**

- 1. **Core Curriculum: See Core Curriculum**  
(42 semester credit hours)
- 2. **Degree Requirements – Bachelor of Fine Arts**  
(3 semester credit hours)  
**Fine Arts FA 3303**  
(3 semester credit hours)
- 3. **University Requirement**  
(1 semester credit hour)  
**SRSU 1101 or equivalent (for details, see First Year Seminar)** 1 semester credit hour
- 4. **Major Field Requirements**
  - Students must complete a major of 60 semester hours in Art or 74 semester hours in Theatre including a minimum of 36 at the advanced level with 15 of the advanced hours in residence at Sul Ross State University.
  - All credit courses completed in Art or Theatre, required or not, count toward the maximum semester hours allowed in the major.

### **Additional Requirements**

- 1. The student must complete additional hours to total 120 semester credit hours.
- 2. A cumulative grade point average of 2.0, including a minimum of 2.0 in both the major and the minor, is required for graduation. A minimum of 2.5 is required in each of the teaching fields in teacher certification degree programs.
- 3. A minimum of thirty-six advanced semester hours must be completed including at least fifteen in residence at Sul Ross State University.
- 4. A minimum of thirty semester hours must be completed in residence.
- 5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
- 6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
- 7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

## **All-Level Teacher Certification in Art**

Students who pursue the Bachelor of Fine Arts degree with All-Level Teacher Certification must complete a teaching field of at least sixty semester hours in Art, including at least six semester hours specifically for the elementary level and six semester hours specifically for the secondary level. A minimum of twenty-four advanced hours is required. A second teaching field is not required. (See the Education section of this Catalog for additional information concerning certification requirements.)

## **REQUIREMENTS FOR THE BACHELOR OF MUSIC**

### **1. Core Curriculum: See Core Curriculum**

(42 semester credit hours)

### **2. University Requirements**

(1 semester credit hours)

SRSU 1101 or equivalent (for details, see First Year Seminar) 1 semester credit hour

### **3. Major Field Requirements**

- Students must complete a major of 49 semester hours in Music including a minimum of 36 at the advanced level with 15 of the advanced hours in residence at Sul Ross State University.
  - Vocal Performance: 63 sch
  - Vocal Education (all-level): 53 sch
  - Instrumental Performance: 60 sch
  - Instrumental Education (all-level): 54 sch
  - Music Business: 49 sch
- All credit courses completed in Music, required or not, count toward the maximum semester hours allowed in the major.

## **Additional Requirements**

1. The student must complete additional hours to total 120 semester credit hours.
2. A cumulative grade point average of 2.0, including a minimum of 2.0 in both the major and the minor, is required for graduation. A minimum of 2.5 is required in each of the teaching fields in teacher certification degree programs.
3. A minimum of thirty-six advanced semester hours must be completed including at least fifteen in residence at Sul Ross State University.
4. A minimum of thirty semester hours must be completed in residence.
5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE

1. **Core Curriculum: See Core Curriculum**  
(42 semester credit hours)
2. **Degree Requirements – Bachelor of Science**  
(9 semester credit hours)  
**Mathematics not taken in the Core Curriculum** 3 semester credit hours  
**Science labs corresponding/linked to core science courses** 2 semester credit hours  
**Additional Lab Science course** 3 semester credit hours  
**Science lab corresponding/linked to additional science course** 1 semester credit hours
3. **University Requirement (Alpine Campus)**  
(1 semester credit hour)  
**SRSU 1101 or equivalent (for details, see First Year Seminar)** 1 semester credit hour
4. **Major Field Requirements**
  - Students must complete a major of at least thirty semester hours but no more than forty-eight semester hours of required courses, including a minimum of eighteen hours at the advanced level, with twelve of those advanced hours in residence at Sul Ross State University. (Exceptions are the broad field programs in Animal Science, Criminal Justice, Industrial Technology and Natural Resource Management.)
  - All credit courses completed in a discipline required or not, count toward the maximum semester hours allowed in the major.
  - Majors may be selected from the following disciplines:
    - Animal Science\*
    - Criminal Justice
    - Interdisciplinary Studies\*
    - Biology
    - Geology\*
    - Kinesiology & Human Performance\*
    - Chemistry\*
    - Homeland Security\*
    - Mathematics
    - Computer Science\*
    - Industrial Technology\*
    - Natural Resource Management\*

**\*Alpine campus only**
5. **Minor Field Requirements**
  - Students must complete a minor of at least eighteen semester hours, (unless they have a broad field major) including a minimum of six hours at the advanced level and three advanced hours in residence at Sul Ross State University.
  - Minors may be selected from any of the disciplines which qualifies for a major, except for General Studies, Interdisciplinary Studies, and Social Sciences. You may choose from the following:
    - Anthropology\*
    - English
    - Photography\*
    - Art\*
    - Environmental Studies\*
    - Political Science\*
    - Biology Geography\*
    - Professional Comm & Design\*

- Business Administration
- Geology\*
- Psychology
- Chemistry\*
- History
- Recreation Administration\*
- Communication\*
- Journalism\*
- Sociology\*
- Computer Science\*
- Kinesiology\*
- Spanish
- Criminal Justice
- Mathematics
- Theatre\*
- Diversity Studies\*
- Music\*
- Women's Studies\*
- Education\*
- Mexican American Studies\*

**\*Alpine campus only**

### **Additional Requirements**

1. The student must complete additional hours to total 120 semester credit hours.
2. A cumulative grade point average of 2.0, including a minimum of 2.0 in both the major and the minor, is required for graduation. A minimum of 2.5 is required in each of the teaching fields in teacher certification degree programs.
3. A minimum of thirty-six advanced semester hours must be completed, including at least fifteen in residence at Sul Ross State University.
4. A minimum of thirty semester hours must be completed in residence.
5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

### **Teacher Certification Programs**

Students who pursue the Bachelor of Science degree with teacher certification at the secondary level must complete all degree requirements described above. In addition, students who desire certification must see the Education section of this Catalog for additional information concerning certification requirements.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN NURSING (BSN)

1. **Core Curriculum: See Core Curriculum**  
(42 semester credit hours)
2. **Degree Requirements – Bachelor of Science in Nursing**
  - A minimum of 39 semester credit hours in nursing is required
3. **Major Requirements**
  - Must have a 3.0 GPA in previous nursing courses
  - Must be eligible to enroll in upper level courses
  - Must hold a current, valid RN license from the State of Texas
4. **Minor Requirements**
  - A minor is not required.

### **Additional Requirements**

1. The student must complete additional hours to total 120 semester credit hours.
2. A cumulative grade point average of 2.0, including a minimum of 2.0 in the major is required for graduation
3. A minimum of thirty-six advanced semester hours must be completed, including at least fifteen in residence at Sul Ross State University.
4. A minimum of thirty semester hours must be completed in residence.
5. At least twenty-four semester hours of the last thirty hours presented for a degree must be in residence.
6. Under no circumstances may more than 65 of the total semester hours required for a degree be presented in one discipline.
7. No more than six semester hours of physical education activity courses may be presented as elective credit toward a degree.

# COLLEGE OF AGRICULTURAL, LIFE AND PHYSICAL SCIENCES

## College of Agricultural, Life and Physical Sciences

Office: Everett. E. Turner Range Animal Science Center 101

Phone: (432) 837-8201

FAX: (432) 837-8406

E-mail: [bwarnock@sulross.edu](mailto:bwarnock@sulross.edu)

Website: <https://www.sulross.edu/catalog/college-of-agriculture-life-and-physical-sciences/>

Bonnie Warnock, Ph.D., Dean

The College of Agriculture, Life, and Physical Sciences serves students that will be the next leaders in the diverse and dynamic STEM fields. Students in ALPS are interested in pursuing careers in **Agriculture** including agricultural business, agricultural education, and the ranching industry; **Animal Science** including the production and care of domestic livestock and horses, the science and safety of meat and food production, and veterinary medicine; **Biology** including field and lab biological sciences, pre-health disciplines and science teacher certification; **Chemistry** including inorganic, organic, biochemistry, and analytical; **Computer Science** including the fields of devices, cybersecurity, gaming and digital art; **Geology** including field geology, hydrology, and GIS; **Mathematics** including general math applications and teacher certification; **Natural Resource Management** including management and conservation of rangelands and wildlife; **Industrial Technology** including manufacturing, construction, and supply chain management; and **Nursing**.

Our faculty stress a hands-on approach to learning with emphasis given to building a solid background in the fundamental principles and specialized experience in the student's specific field of study. We pride ourselves in offering excellent facilities and learning opportunities in a student-oriented, learner-centered environment.

Our students benefit from state-of-the-art facilities, collections, and field opportunities.

- The Turner Range Animal Science complex with associated ranch, feedlot, horse barn, S.A.L.E. covered arena, outdoor arena, and stalls is located within 1.5 miles of main campus.
- The Warnock Science Building with the A. Michael Powell Herbarium, James Scudday Vertebrate Collection, Jim V. Richardson Invertebrate Collection, Analytical Lab, and adjacent greenhouses and native plant gardens tied into the ZuZu Verk Outdoor Amphitheatre.
- Computer resources include two state of the art computer science labs, motion capture lab, GIS lab, and RAS technical lab.
- The Sierra Blanca Ranch, a Sul Ross State University Research and Teaching Field Site, is located in Hudspeth County between Van Horn and Sierra Blanca along Interstate 10. This 14,700 acre working ranch provides hands-on teaching and research opportunities for students in the Departments of Animal Science and Natural Resource Management. It also helps support the Bar SR Bar cattle herd and the Rodeo Livestock.
- The Sul Ross Meat Market located at the Turner Range Animal Science Complex, is a state inspected facility that processes and sells beef, pork, lamb, and goat. The facility offers students the hands-on opportunity to learn the entire process of meat processing from harvest to sales. The retail counter is open to the public and offers both grain and grass-fed meats.

Students can earn degrees within six departments (Animal Science; Biology, Geology and Physical Sciences; Computer Science and Mathematics; Industrial Technology; Natural Resource Management; and Nursing) as follows:

### **Bachelor of Science**

- **Agriculture** with concentrations in:
  - Agricultural Business
  - Agricultural Education
  - Agriculture Systems
  - Sustainable Ranch Management
- **Animal Science** with concentrations in:
  - Pre-Veterinary Medicine
  - Production
  - Science
  - Students focusing in either Production or Science can further specialize by selecting classes in general livestock, equine, or meats
- **Biology**
- **Chemistry**
- **Computer Science** with concentrations in:
  - Traditional Computer Science
  - Gaming Technology
  - Cybersecurity
- **Geology**
- **Industrial Technology** with concentrations in:
  - Manufacturing
  - Construction Management
  - Supply Chain Management
- **Mathematics** with concentrations in
  - Mathematics
  - Math Teacher Certification
  - Pre-Engineering
- **Natural Resource Management** with concentrations in:
  - Conservation Biology
  - Range and Wildlife Management
- **Nursing** with two tracks
  - Traditional BSN
  - RN to BSN

### **Master of Agriculture**

- [Animal Science \(online\)](#)
- [Natural Resource Conservation \(online\)](#)

### **Master of Science**

- [Animal Science \(thesis\)](#)
- [Biology \(thesis\)](#)
- [Biology \(non-thesis\)](#)
- [Geology \(thesis\)](#)
- [Geology \(non-thesis\)](#)



- [Range and Wildlife Management \(thesis\)](#)
- [Range and Wildlife Management \(non-thesis\)](#)

In addition to the academic departments, the College also is the home of the award winning SRSU **Rodeo** team, with the distinction of being the 1949 birthplace of the National Intercollegiate Rodeo Association. The Sul Ross rodeo team has earned nine national championships (seven men's and two women's).

The **Borderlands Research Institute for Natural Resource Management** which was founded in 2007 to help further the research mission at Sul Ross State University is also housed in the College and works closely with the Department of Natural Resource Management. BRI focuses on research to obtain practical information to benefit land owners and managers with outreach and educational activities to get that information to land managers. BRI grants support research projects for multiple graduate students and undergraduate students, providing funding and opportunities for current and relevant scientific research and experience with outreach and education.

## **RODEO**

Sul Ross State University is well known for its rodeo program and was the 1949 birthplace of the National Intercollegiate Rodeo Association. Sul Ross rodeo teams have earned nine national championships (seven men's and two women's) with well-known former members including Tuff Hedeman, Cody Lambert, and Tami Noble.

The rodeo program consists of state-of-the-art facilities including lighted, covered and outdoor arenas for practices and events. Practice stock is provided for student use during scheduled practice sessions at the University. There are usually three scheduled practices each week and additional practice can be arranged with the coach.

A number of scholarships are available for students who are interested in rodeo. Along with the scholarships, team members are provided budgeted travel monies to help with expenses while traveling to collegiate rodeo competition.

The rodeo club at Sul Ross State University sponsors many events throughout the year. Some of these annual events include jackpot team roping, the annual N.I.R.A. rodeo, and manning the Chili Appreciation Society International Booth at the annual Terlingua Chili Cook-off. Club monies support team activities and scholarships, and other activities determined by the club. Club members are not required to be rodeo team members.

For more information visit <https://www.sulross.edu/rodeo/>.

## **B.S., AGRICULTURE**

### **Overview:**

A degree in Agriculture opens the door to many exciting careers and opportunities. Agriculture contributes over 5 percent of the U.S. gross domestic product and nearly 11 percent of all employment in the U.S. Every year millions of jobs are available in the agriculture sector and over 60,000 jobs go unfilled each year. The B.S. in Agriculture at Sul Ross offers four concentrations that prepare students for careers in this dynamic and challenging field.

Our supporters help us provide top-quality education. Thanks to the [Dixon Water Foundation](#) for establishing the Clint Josey Endowed Chair for Sustainable Ranch Management and to the [Lykes Brothers](#) for the donation of a 68,000 acre lease on the 02 Ranch.

### **Concentrations:**

- The **Agricultural Business** concentration prepares students for careers across *many* types of industries in global agriculture. Everything involved in agriculture, from the production of food, the trade and distribution of livestock and agriculture products to the financial well-being of agricultural producers and markets falls under agricultural business. Our program gives students the fundamentals of agricultural science and builds on it to prepare them for the unique challenges of this growing field. Graduates can pursue careers in consulting, agricultural finance, international trade, and in many other areas, OR they can also develop entrepreneurial skills to start their own businesses in the agricultural sector. Whether students want to get back to the family farm with new, enhanced management skills or work in the stock market managing agribusiness futures contracts, they will develop their learning in a specialized, hands-on learning environment.
- The **Agricultural Education** concentration combines courses in Agricultural Education, Animal Science, Natural Resources, Industrial Technology and general Education and the curriculum develops the leadership qualities and knowledge students will need to succeed. Each student gains hands-on experience throughout the program. Career opportunities for Agricultural Education graduates include instructional positions, extension services, farm service agencies, farm and ranch management, and international agriculture. Graduates of the program are certified to teach Agriculture in Texas public schools. Students are required to pass the TASP and departmental Agricultural Education benchmark exam before qualifying to take the Vocational Agriculture TeXes exam for teacher certification.
- The **Agricultural Systems** concentration is designed for students who want to pursue a career in the Agricultural Extension field. With foundational courses in Ag teaching and a broad base in agricultural classes, the student can then select a focus or continue to build across a broad range of agricultural topics.
- **Sustainable Ranch Management** trains students to join the next generation of land stewards, learning to manage a ranch from the soil up. Our hands-on program is the only one of its kind in Texas offering a four-year Bachelor of Science degree. At Sul Ross, you will join a small cohort of enthusiastic peers and faculty who are dedicated to training successful ranch managers. With the range as your classroom, you will gain real-world experience as you study all of the natural and human elements that make a ranch flourish. Through our degree plan, you will learn how soil, water, energy, nutrients, vegetation, wildlife, livestock, business and people all contribute to a prosperous ranching enterprise. Sustainable Ranch Management graduates are exceptionally prepared for leadership careers with private ranches, agribusinesses, and federal and state agencies that support the ranching industry.

## Degree Plans:

### [AGRICULTURAL BUSINESS](#)

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Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## **Bachelor of Science in Agriculture, Agricultural Business concentration**

### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	CHEM 1311 + Lab or GEOL 1303 + Lab	4 credit hours
NRM 1101	1 credit hour	BIOL 1307 + Lab	4 credit hours
BIO 1306 + Lab	4 credit hours	NRM 2301 or 2303	3 credit hours
NRM 2330	3 credit hours	NRM 3202	2 credit hours
<b>Total: 14 sch</b>		<b>Total: 16 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
ANSC 1419	4 credit hours	*COMM 1320 or 1311	3 credit hours
PS 2305	3 credit hours	NRM 4303	3 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	ENG 2311	3 credit hours
NRM 2305	3 credit hours	MATH 1342	3 credit hours
NRM 3305	3 credit hours	ANSC 3416	4 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
AGB 2302	3 credit hours	*ECO 2301	3 credit hours
NRM 2305	3 credit hours	AGB 3302	3 credit hours
NRM 3304	3 credit hours	AGB 3304	3 credit hours
NRM 3308	3 credit hours	AGB 4315	3 credit hours
*ENG 2315 or 2331	3 credit hours	RCH 3302	3 credit hours
ANSC 3302 or 3309	3 credit hours		
Total: 18 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
GEOL 3401	3 credit hours	*FA 1302 or FA 1315	3 credit hours
AGB 3310 (special topics)	3 credit hours	AGB 4303	3 credit hours
AGB 3310 (special topics)	3 credit hours	Elective(s)	3-6 credit hours
PS 2306	3 credit hours		
Total: 16 sch		Total: 12-15 sch	

## Total Credit Hours Required for Bachelor of Science in Agriculture, concentration in

### Agricultural Business: 123-126

\*Several options meet this requirement. Consult your adviser for specific lists.

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## [AGRICULTURAL EDUCATION](#)

### All undergraduates must be advised in order to register/enroll in courses in a future term.

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

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## Bachelor of Science in Agriculture, Agricultural Education concentration

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314 or 1342	3 credit hours	NRM 1301	3 credit hours
ANSC 1101	1 credit hour	ANSC 2312	3 credit hours
BIO 1311	3 credit hours	PS 2305	3 credit hours
ANSC 1419 or 2301	3-4 credit hours	ANSC 2304	3 credit hours
HIST 1301	3 credit hours		
<b>Total: 16-17 sch</b>		<b>Total: 15 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1302	3 credit hours	*COMM 1310 or 1311	3 credit hours
PS 2306	3 credit hours	*ENG 2315 or 2331	3 credit hours
NRM 2305	3 credit hours	NRM 2301	3 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	ANSC 3319	3 credit hours
ANSC 2313	3 credit hours	NRM 2303	3 credit hours
		ANSC 3320	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 18 sch</b>	

### Junior Year

Semester V, Fall		Semester VI, Spring	
IT 2307	3 credit hours	ANSC 3416	4 credit hours
AGB 2302	3 credit hours	ANSC 4305	3 credit hours
ANSC 3308	3 credit hours	ED 4306	3 credit hours
IT 2309	3 credit hours	ANSC 3318	3 credit hours
*ART 1301 or FA 1302	3 credit hours	ANSC 3321	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 16 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
ANSC 4311	3 credit hours	ED 3300	3 credit hours
ED 4314	3 credit hours	ED 4322	3 credit hours
ED 3302	3 credit hours	ED 4605	6 credit hours
*ANSC or IT (3-6 hours upper level)	3-6 credit hours		
<b>Total: 12-15 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Agriculture, concentration in**

**Agricultural Education: 120-123**

\*Several options meet this requirement. Consult your adviser for specific lists.

## AGRICULTURAL SYSTEMS

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

Advisors accept student inquiries by appointment (Zoom, Teams, and Skype), over the phone, or as walk-ins. Students must be advised before registration and they must receive their advisor's final approval of schedules and official degree plans.

Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

### **Bachelor of Science in Agriculture, Agricultural Systems concentration**

#### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314 or 1342	3 credit hours	NRM 1301	3 credit hours
ANSC/NRM 1101	1 credit hour	ANSC 2312	3 credit hours
BIO 1311	3 credit hours	PS 2305	3 credit hours
ANSC 1419 or 2301	3-4 credit hours	ANSC 2304	3 credit hours
HIST 1301	3 credit hours		
<b>Total: 16-17 sch</b>		<b>Total: 15 sch</b>	

#### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
HIST 1302	3 credit hours	*COMM 1310 or 1311	3 credit hours
PS 2306	3 credit hours	*ENG 2315 or 2331	3 credit hours
NRM 2305	3 credit hours	NRM 2301	3 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	ANSC 3319	3 credit hours
ANSC 2313	3 credit hours	NRM 2303	3 credit hours
		ANSC 3320	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 18 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
IT 2307	3 credit hours	ANSC 3416	4 credit hours
AGB 2302	3 credit hours	ANSC 4305	3 credit hours
ANSC 3308	3 credit hours	ED 4306	3 credit hours
IT 2309	3 credit hours	ANSC 3318	3 credit hours
*ART 1301 or FA 1302	3 credit hours	ANSC 3321	3 credit hours
Total: 15 sch		Total: 16 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ANSC 4311	3 credit hours	*ANSC, IT, NRM, AGB, RCH, and/or GEOL 3401	12 credit hours
*ANSC, IT, NRM, AGB, RCH, and/or GEOL 3401	12 credit hours		
Total: 15-16 sch		Total: 12-13 sch	

**Total Credit Hours Required for Bachelor of Science in Agriculture, concentration in**

**Agricultural Systems: 122-124**

\*Several options meet this requirement. Consult your adviser for specific lists.

## SUSTAINABLE RANCH MANAGEMENT

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

Advisors accept student inquiries by appointment (Zoom, Teams, and Skype), over the phone, or as walk-ins. Students must be advised before registration and they must receive their advisor's final approval of schedules and official degree plans.

Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)



## Bachelor of Science in Agriculture, Sustainable Ranch Management concentration

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 2311	3 credit hours
MATH 1342	3 credit hours	HIST 1301	3 credit hours
PS 2306	3 credit hours	PS 2305	3 credit hours
NRM 1101	1 credit hour	IT 1309	3 credit hours
NRM 2330	3 credit hours	NRM 2301	3 credit hours
*FA 1302 or 1315	3 credit hours		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
NRM 2305	3 credit hours	HIST 1302	3 credit hours
ANSC 2312	3 credit hours	IT 1308	3 credit hours
ANSC 1419	4 credit hours	*ENG 2341 or PHIL 1301	3 credit hours
AGB 2302	3 credit hours	*COMM 1311 or 1320	3 credit hours
		*ENG 2315 or 2331	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 15 sch</b>	

### Junior Year

Semester V, Fall		Semester VI, Spring	
AGB 4315 or ACCT 2301	3 credit hours	ANSC 3416	4 credit hours
ANSC 3402 or 3315	3-4 credit hours	AGB 3304 or 4308	3 credit hours
IT 2307	3 credit hours	IT 2309 or 3319	3 credit hours
RCH 2101	1 credit hour	RCH 4301	3 credit hours
NRM 3305	3 credit hours	RCH 3302	3 credit hours
NRM 4308	3 credit hours		
<b>Total: 16 sch</b>		<b>Total: 16-17 sch</b>	

### Summer

RCH 3301	3 credit hours		
<b>Total: 3 sch</b>			

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
ANSC 3308	3 credit hours	ANSC 4305	3 credit hours
IT 4311	3 credit hours	RCH 4101	1 credit hour
NRM 4304	3 credit hours	NRM 4601	6 credit hours
*AGB 4301 or 4303	3 credit hours	NRM 4314	3 credit hours
GBA 4355, 3351, ANSC 2303, 2305, 3406, 4303, 4314, or RCH 4302	3-4 credit hours		
<b>Total: 15-16 sch</b>		<b>Total: 13 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Agriculture, concentration in**

**Agricultural Systems: 120-122**

\*Several options meet this requirement. Consult your adviser for specific lists.

## **B.S., ANIMAL SCIENCE**

### **Overview:**

At Sul Ross, we believe you learn by doing. That is why students benefit from hands-on experience through the Animal Science degree programs.

The Animal Science program features an expert faculty across a variety of concentrations, from meat science to animal health/nutritional management to reproductive physiology. Here, students are immersed in the art and science of managing animals and preparing for a career in the animal agricultural industry. Currently, the Animal Science department offers a Bachelor of Science degree with concentrations in animal production, science, and pre-veterinary medicine. We offer a Master of Science in Animal Science with thesis (in-residence) and a Master of Agriculture in Animal Science non-thesis (online) degree options.

The Department of Animal Science is housed in the Everett E. Turner Range Animal Science Center (RAS) on East Highway 90, about a mile east of the main campus. RAS has specialized laboratories and facilities for animal health/nutritional management, animal production, equine science, and meat science, to name a few. The University also maintains animals for teaching and research, including a herd of registered horned Hereford cattle.

A variety of student clubs and organizations are available for students to participate in, including Collegiate FFA, Block and Bridle-Pre-Vet Club, Ranch Horse Club, Rodeo Club, and Range and Wildlife Club.

We take this program seriously because we know that our students have a passion for working with animals. Our faculty and our emphasis on hands-on learning will get you the attention you deserve and the experience you need to further a career in Animal Science.

### **Degree Plans:**

#### **ANIMAL PRODUCTION**

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## Animal Science Major with a concentration in Production

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	CHEM 1311 + Lab	4 credit hours
ANSC 1101	1 credit hour	ANSC 2312	3 credit hours
BIO 1313 + Lab	4 credit hours	HIST 1301	3 credit hours
ANSC 1419	4 credit hours	PS 2305	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 16 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1302	3 credit hours	*COMM 1310 or 1311	3 credit hours
PS 2306	3 credit hours	*ENG 2315 or 2331	3 credit hours
CHEM 1312 + Lab	4 credit hours	ANSC 3410	4 credit hours
ANSC 3315	3 credit hours	*ANSC Production	3 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	NRM 2301, 2330, or 2305	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

### Junior Year

Semester V, Fall		Semester VI, Spring	
*ANSC Production	6 credit hours	ANSC 3416	4 credit hours
ANSC 3308	3-4 credit hours	ANSC 4305	3 credit hours
ANSC 3406	3 credit hours	*ANSC Production	4 credit hours
*ART 1301 or FA 1302	1 credit hour	*AGB Elective	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 14 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
ANSC 4304	3 credit hours	ANSC 4317	3 credit hours
ANSC 4306	3 credit hours	*ANSC Production	5 credit hours
ANSC 4308	3 credit hours	General Electives	4 credit hours
*AGB Elective	3 credit hours		
*ANSC Production	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Animal Science, Production concentration: 120**

\*Several options meet this requirement. Consult your adviser for specific lists.

## [PRE-VET](#)

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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### **Animal Science Major, Pre-Vet concentration Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302 or 2311	3 credit hours
MATH 1314	3 credit hours	CHEM 1311 + Lab	4 credit hours
ANSC 1101	1 credit hour	BIO 1307 + Lab	4 credit hours
BIO 1306 + Lab	4 credit hours	ANSC 2312	3 credit hours
ANSC 1419	4 credit hours		
<b>Total: 15 sch</b>		<b>Total: 14 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
CHEM 1312 + Lab	4 credit hours	COMM 1320	3 credit hours
ANSC 3315	3 credit hours	BIO 2321 + Lab	4 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	ANSC 3410	4 credit hours
<b>Total: 16 sch</b>		<b>Total: 17 sch</b>	

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
PHYS 1301 + Lab	4 credit hours	CHEM 3408	4 credit hours
CHEM 3407	4 credit hours	CHEM 4301	3 credit hours
ANSC 3406	4 credit hours	PHYS 1302 + Lab	4 credit hours
*ENG 2315 or ENG 2331	3 credit hours	PSY 1302	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 14 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
BIO 3306	3 credit hours	ANSC 4305	3 credit hours
ANSC 3308	3 credit hours	ANSC 4317	3 credit hours
ANSC 4304	3 credit hours	*FA 1302 or FA 1315	3 credit hours
ANSC 4306	3 credit hours	General Electives	5 credit hours
ANSC 4308	3 credit hours		
Total: 15 sch		Total: 14 sch	

## Total Credit Hours Required for Bachelor of Science in Animal Science, Pre-Vet

concentration: 120

\*Several options meet this requirement. Consult your adviser for specific lists.

## ANIMAL SCIENCE

### All undergraduates must be advised in order to register/enroll in courses in a future term.

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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## Animal Science Major, Science concentration

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302 or 2311	3 credit hours
MATH 1314	3 credit hours	CHEM 1311 + Lab	4 credit hours
ANSC 1101	1 credit hour	BIO 1307 + Lab	4 credit hours
BIO 1306 + Lab	4 credit hours	ANSC 2312	3 credit hours
ANSC 1419	4 credit hours		
Total: 15 sch		Total: 14 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
CHEM 1312 + Lab	4 credit hours	*COMM 1310 or 1311	3 credit hours
ANSC 3315	3 credit hours	BIO 2321 + Lab	4 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	ANSC 3410	4 credit hours
Total: 16 sch		Total: 17 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
*ANSC Production	6 credit hours	ANSC 3416	4 credit hours
CHEM 3407	4 credit hours	ANSC 4305	3 credit hours
ANSC 3406	4 credit hours	*ANSC Production	6 credit hours
*ENG 2315 or ENG 2331	3 credit hours	*ART 1301 or FA 1302	3 credit hours
Total: 17 sch		Total: 16 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ANSC 3308	3 credit hours	ANSC 4317	3 credit hours
ANSC 4304	3 credit hours	*ANSC Production	7 credit hours
ANSC 4306	3 credit hours	General Electives	3 credit hours
ANSC 4308	3 credit hours		
Total: 12 sch		Total: 13 sch	

## Total Credit Hours Required for Bachelor of Science in Animal Science, Science

concentration: 120

\*Several options meet this requirement. Consult your adviser for specific lists.

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## [B.S., BIOLOGY](#)

### Overview:

The Biology program in Alpine focuses on an organismal approach to the life sciences, emphasizing integrated ecological and co-evolutionary studies of plants and animals through field work in the Chihuahuan Desert region. It offers broad training in aspects of biology and prepares students for advanced specialty disciplines. In addition, students can also work toward either life science or composite science teaching certification, or toward an associate certification as a wildlife biologist as set forth by the Wildlife Society, as well as a Bachelor of Science in Biology. The Bachelor of Science can be tailored to field biologist, laboratory-focused biology, and various pre-health professions. The biology program advises for pre-medical, pre-dental, and other pre-health science disciplines. The composite science education track is designed to provide future teachers and educators a broad background in science, with a concentration in the biological sciences. The program also offers courses emphasizing non-game and small game organisms which meet the requirements for certification as a wildlife biologist as set forth by the Wildlife Society and lead to the professional B.S. degree in Biology. The department maintains one of the largest herbaria in Texas, highly regarded vertebrate animal and insect collections, modern greenhouses, and laboratories for microbiology and molecular biology.

The Bachelor of Science with a major in Biology at Rio Grande College is oriented towards an organismal and ecological approach to the life sciences, emphasizing ecological and evolutionary plant and animal interrelationships. The course work is designed to provide a broad training in most aspects of modern biology and will prepare students for almost any advanced specialty discipline. The curriculum is balanced between the scientific preparation to enter such fields as wildlife biology, environmental science, medicine, teaching and postgraduate work in biology as well as the liberal arts preparation of scientifically literate members of society who have the knowledge to contribute and compete in a rapidly changing world. The biology program offers students an opportunity to gain an appreciation of the biological world, to develop an inquisitive nature and to think scientifically.

### **Biology Minor**

Biology is available for students who want a basic background in the biological sciences. Courses required for this minor include 8 hours of freshman biology, genetics, cell biology, and an upper level biology lecture/lab elective of your choice. This flexibility allows students who want to get a sampling of botany, pre-health, microbiology, or zoology to get the biology experience to complement their degree. This is particularly beneficial to those interested in forensics science (Homeland and Criminal Justice majors), resource management (Natural Resource Management majors), pharmacy (Chemistry majors), or domestic animal work (Animal Science majors). Requirements for the Biology minor are as follows: Biol 1306/1106, 1307/1107, 3306, 4301, and 4 sch advance Biology (3000-4000).

### **Wildlife Biology Minor**

A minor for Criminal Justice majors only is offered for those C.J. majors seeking employment or certification as game wardens or park rangers. This program is aimed at preparing the individual to be able to identify plants and animals in the field with emphasis placed on species protected by federal or state laws.

### **Biology Graduate Program**

Students who are accepted into the graduate program in biology may choose from three plans. For Plan I, the degree may be obtained by completing 30 semester credit hours in biology, including the writing of a thesis; Plan II by completing 36 semester credit hours and a “mini thesis;” or Plan II), by completing 36 semester credit hours in biology. Plans I and II require a thesis defense presentation and comprehensive oral exam. For Plan III, both oral and written comprehensive exams are required. Plan III must be approved by the biology faculty. A “mini thesis” is usually a one-semester project. At the discretion of the student and the committee, the department will accept six semester credit hours of coursework in a department other than the major.

### **Alpine Program Coordinator**

Dr. Chris Ritzi

[critzi@sulross.edu](mailto:critzi@sulross.edu)

432.837.8420

### **RGC Program Coordinator**

Dr. Dan Foley

[dfoley@sulross.edu](mailto:dfoley@sulross.edu)

830.703.4838

### **Pre-professional Programs:**

#### **Pre-Nursing**



Sul Ross State University offers courses which satisfy requirements for the first two years of most four-year professional nursing programs outlined by the various schools of nursing. Students should follow the course rotation for the first two years of the SRSU BSN program to prepare for the SRSU BSN or any other BSN program in Texas.

### **Pre-Health Professions including Pre-Medicine and Pre-Dentistry and Pre-Pharmacy**

Students interested in applying for admission to medical or dental school may major in any undergraduate field they wish. Professional school admission committees do not state a preference about an undergraduate major field, and students may select a degree program suited to their interests. They must work closely with the Pre-Professional Advisor in the Department of Biology, Geology, and Physical Sciences to develop a program which will satisfy the requirements of both their chosen major field and the professional schools of their interest. To prepare for professional schools a degree in Biology with a minor in Chemistry allows students to accrue all the course work needed for admission to most programs. The program of study is included in the Pre-Professional Degree Plan.

For those students that are eligible, Sul Ross also participates in the JAMP, or Joint Early Admission Program, for medical school admission and assistance for economically disadvantaged Texans. For more information, see the JAMP tab. Sul Ross also works with UTHSC-SA for a Dental Early Admission Program, DEAP.

### **Degree Plans:**

## **BIOLOGY**

### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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**Biology Major, (Minor Required)**  
**Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
BIOL 1306 + 1106 Lab	4 credit hours	BIOL 1307 + 1107 Lab	4 credit hours
MATH 1314	3 credit hours	MATH 1316 or 2312	3 credit hours
Creative Arts Core Req	3 credit hours	CHEM 1311 + 1111 Lab	4 credit hours
SRSU 1101	1 credit hour	COMM 1315	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 17 sch</b>	

**Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
BIOL 24xx	4 credit hours	BIOL 24xx	4 credit hours
GOVT/PS 2305	3 credit hours	GOVT/PS 2306	3 credit hours
CHEM 1312 + 1112 Lab	4 credit hours	MATH 1342	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Social and Behavioral Sciences Core Req	3 credit hours	Language, Philosophy & Culture Core	3 credit hours
<b>Total: 17 sch</b>		<b>Total: 16 sch</b>	

**Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
CHEM 2423 or 3407	4 credit hours	Soph Lit SRSU Core	3 credit hours
PHYS 1411, 2405, 1311+1111 lab, or 2305+2105 Lab	4 credit hours	BIOL/BIO 4301	3 credit hours
BIOL/BIO 3301, 3407, 3408, 4402, 4408, 4415	3-4 credit hours	BIOL/BIO 3303, 3309, 3406, 3602, 4409, 4414, 4607	3-6 credit hours
BIOL/BIO 3306	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours		
<b>Total: 17-18 sch</b>		<b>Total: 12-15 sch</b>	

**Senior Year**

<b>Semester VII, Fall</b>		<b>Semester VIII, Spring</b>	
BIOL/BIO (choose 2) 3301, 4403, 4405, 4410	7-8 credit hours	BIOL/BIO (choose 1 if needed) 3305, 3403, 3405, 3406, 3601, 4404, 4601	3-6 credit hours
BIOL/BIO 3302	3 credit hours	BIOL/BIO 3307	3 credit hours
Minor Coursework	3 credit hours	BIOL/BIO 4101	1 credit hour
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
		Minor Coursework	3 credit hours
<b>Total: 16-17 sch</b>		<b>Total: 13-16 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Biology: 120**

**NOTES**

This degree plan includes:

42 Core credit hours

8 Bachelor of Science credit hours

61 Biology major credit hours including 8 Biology lower elective hours, 13 Biology advanced core credits, and 44 Biology advanced elective credits

18 minor credits

TOTAL HOURS REQUIRED: 120

## BIOLOGY (CHEMISTRY MINOR)

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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### **Biology Major, (Chemistry Minor)**

#### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
BIOL 1306 + 1106 Lab	4 credit hours	BIOL 1307 + 1107 Lab	4 credit hours
MATH 1314	3 credit hours	Language, Philosophy, & Culture Core	3 credit hours
Creative Arts Core Req	3 credit hours	CHEM 1311 + 1111 Lab	4 credit hours
SRSU 1101	1 credit hour	COMM 1321	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 17 sch</b>	

#### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
BIOL 2301 + 2101 Lab	4 credit hours	BIOL 2302 – 2102 Lab	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
CHEM 1312 + 1112 Lab	4 credit hours	MATH 1342	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
		BIOL 3303/3305/ 3309/3405/3406	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 16 sch</b>	

#### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
MATH 2413 or 1316	3-4 credit hours	PSY 1302	3 credit hours
BIOL 3306	3 credit hours	BIOL 2321	3 credit hours
BIOL 3301	3 credit hours	CHEM 3408	4 credit hours
CHEM 3407	4 credit hours	Component Area Core Req	3 credit hours
		BIOL/BIO 4301	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 16 sch</b>	

#### **Senior Year**

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Semester VII, Fall		Semester VIII, Spring	
BIOL/BIO 4410/4412/3403	4 credit hours	BIOL/BIO 4410/4412/3403	4 credit hours
CHEM 4301	4 credit hours	BIOL/BIO 3307	3 credit hours
PHYS 1311 + 1111	4 credit hours	PHYS 1312 + 1112	4 credit hours
BIOL/BIO 3302	3 credit hours	BIOL/BIO 4101	1 credit hour
		SOC 2303	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Biology: 120**

This degree rotation is recommended for students that need a 4 year Pre-Professional degree.

## BIOLOGY – SECONDARY CERTIFICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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### **Biology Major – Secondary Certification**

#### **Freshman Year**

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
BIOL 1306 + 1106 Lab	4 credit hours	BIOL 1307 + 1107 Lab	4 credit hours
MATH 1314	3 credit hours	COMM 1321	3 credit hours
Creative Arts Core Req	3 credit hours	CHEM 1311 + 1111 Lab	4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 14 sch</b>		<b>Total: 14 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
BIOL 2405 or 2406	4 credit hours	MATH 2413 or 1316	3-4 credit hours
CHEM 1312 + 1112 Lab	4 credit hours	PS 2306	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
GEOL 3302	3 credit hours	Component Area Option Literature Core	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 12-13 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
BIOL 3403, 3408, 4402, 4403, 4404, or 4409	4 credit hours	PSY 1302	3 credit hours
BIOL 3306	3 credit hours	PS 2305	3 credit hours
CHEM 3407	4 credit hours	BIOL 3406	4 credit hours
BIOL 3405, 3602, 4405, or 4408	4-6 credit hours	BIOL/BIO 4301	3 credit hours
<b>Total: 15-17 sch</b>		<b>Total: 13 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
BIOL/BIO 3302	3 credit hours	PHYS 1312 + 1112 Lab	4 credit hours
PHYS 1311 + 1111 Lab	4 credit hours	BIOL/BIO 4101	1 credit hour
ED 3302	3 credit hours	ED 4322	3 credit hours
ED 4314	3 credit hours	ED 3303	3 credit hours
		Language, Philosophy, & Culture Core Req	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 14 sch</b>	

## Student Teaching Semester

Semester I			
Ed 4605	6 credit hours		
ED 3301	3 credit hours		
ED 3300	3 credit hours		
<b>Total: 12 sch</b>			

**Total Credit Hours Required for Bachelor of Science in Biology-Certification Track: 121**

This degree rotation is recommended for students that are seeking a Biology degree with a Composite Science Teaching Certification for Secondary Education.

## B.S., CHEMISTRY

### Overview:

The Bachelor of Science in Chemistry focuses on general, organic, biochemistry, inorganic, physical and analytical chemistry courses in addition to flexible upper level electives to give the graduating student a strong foundation in the main areas of chemistry. The chemical knowledge learned will enable the chemistry graduate to help develop new applications and solve real world problems in industry, academia, medicine, public health, and other fields. The chemistry program is readily accessible and covers the essential concepts in chemistry comprehensively through high quality teaching, research and creativity. The core chemistry curriculum has been designed following the American Chemical Society ([www.acs.org](http://www.acs.org)) guidelines and focuses on student learning outcomes.

The chemistry program also supports other disciplines whose subject matter depends, in part, on the knowledge of the principles of chemistry. It presents the non-science student with an overview of the ideas, methods, and achievements in the field of chemistry. The chemistry program is aggressively engaged in supporting non-chemistry disciplines such as biology, geology, range animal science, and criminal justice. Additionally, students planning to enter medical, dental or pharmacy schools can complete their pre-professional course work under the close supervision of a pre-professional advisor. This degree program is designed to prepare the student for professional service as a chemist or for future graduate study. Students may also choose the Bachelor of Science in Chemistry with teacher certification.

A **minor in Chemistry** requires 18 sch of Chemistry and includes 6 sch advanced hours (3000-4000 level). Recommended courses include CHEM 1311, CHEM 1111, CHEM 1312, CHEM 1112, CHEM 2401 plus 6 sch at 3000-4000 level.

### Degree Plans:

## CHEMISTRY

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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## Chemistry Major – (Minor Required)

### Freshman Year

Semester I, Fall		Semester II, Spring	
CHEM 1311 + 1111 Lab	4 credit hours	CHEM 1312 + 1112 Lab	4 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	Social and Behavioral Core Req	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
SRSU 1101	1 credit hour	Creative Arts Core Req	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 16 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
CHEM 3410	4 credit hours	CHEM 2401	4 credit hours
MATH 2413	4 credit hours	MATH 2414	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
Minor Coursework	4 credit hours	Advanced Chem Elective	4 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

### Junior Year

Semester V, Fall		Semester VI, Spring	
CHEM 3407	4 credit hours	CHEM 3408	4 credit hours
PHYS 2325 + 2125 Lab	4 credit hours	CHEM 4301	3 credit hours
L, P & C Core Req	3 credit hours	PHYS 2326 + 2126 Lab	4 credit hours
Component Area Core Req	3 credit hours	Minor Coursework	4 credit hours
<b>Total: 14 sch</b>		<b>Total: 15 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
CHEM 4406	4 credit hours	CHEM 4407	4 credit hours
CHEM 3000+ Elective (Group I)	3 credit hours	CHEM 4300	3 credit hours
Component Area Core Req	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	4 credit hours	Minor Coursework	3 credit hours
		General Elective	4 credit hours
<b>Total: 14 sch</b>		<b>Total: 17 sch</b>	

## Total Credit Hours Required for Bachelor of Science in Chemistry: 120

### Summary:

-42 Core credits accounted for  
 -10 Bachelor of Science hours accounted for  
 -45 Chemistry Major hours accounted for  
 -8 hours other fields required  
 -30 Chemistry Required hours  
 -7 Advanced Chemistry Electives  
 -18 minor hours accounted for  
 -4 General elective hours accounted for (any level)  
 -1 SCH for First Year Seminar  
**TOTAL HOURS: 120**



## CHEMISTRY – EDUCATION CERTIFICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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### **Chemistry Major – Education Certification Minor**

#### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
CHEM 1311 + 1111 Lab	4 credit hours	CHEM 1312 + 1112 Lab	4 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	Social and Behavioral Core Req	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
SRSU 1101	1 credit hour	Creative Arts Core Req	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 16 sch</b>	

#### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
MATH 2413	4 credit hours	CHEM 2401	4 credit hours
GEOL 1303 + 1103 Lab	4 credit hours	MATH 2414	4 credit hours
CHEM 3410	4 credit hours	GEOL 1304 + 1104 Lab	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

#### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
CHEM 3407	4 credit hours	CHEM 4301	3 credit hours
PHYS 2325 + 2125 Lab	4 credit hours	PHYS 2326 + 2126 Lab	4 credit hours
Component Area Core Req	3 credit hours	ED 3302	3 credit hours
L, P & C Core Req	3 credit hours	ED 4314	3 credit hours
		CHEM 3000+ Elective (Group II)	4 credit hours
<b>Total: 14 sch</b>		<b>Total: 17 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
BIOL 1311 + 1111 Lab	4 credit hours	ED 3300	3 credit hours
BIOL 1313 + 1113 Lab	4 credit hours	ED 4322	3 credit hours
ED 3301	3 credit hours	ED 4605	6 credit hours
ED 3303	3 credit hours		
Component Area Core Req	3 credit hours		
Total: 17 sch		Total: 12 sch	

## Total Credit Hours Required for Bachelor of Science in Chemistry: 120

### Summary:

-42 Core credits accounted for  
-10 Bachelor of Science hours accounted for  
-43 Chemistry Major hours accounted for  
-24 hours other fields required  
-15 Chemistry Required hours  
-4 Advanced Chemistry Electives  
-24 minor hours accounted for  
-1 SCH for First Year Seminar  
TOTAL HOURS: 120

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## B.S., COMPUTER SCIENCE

### Overview:

The Bachelor of Science in Computer Science degree offers concentrations in Traditional Computer Science, Gaming Technology, Cyber Security. Coursework includes classes in programming, data structures, networking, databases, system analysis and design, operating systems, human computer interface, scripting languages and various special topics classes. Programming languages include C#, C++, HTML 5, PHP, and Python. Computer science is an ever-changing field and coursework is modified to stay up-to-date. Students should remain in contact with their advisors.

The program provides professional training in Computer Science for students interested in becoming software engineers, high school computer science teachers, or simply augmenting other skills with the requisite knowledge of computers and programming necessary to be successful in the modern workplace.

### Concentrations:

- **Traditional Computer Science Concentration**  
Learn programming languages and skills to build software applications and solutions to business programs. The C# language is becoming increasingly important in education, government, and industry.
- **Gaming Technology Concentration**  
Create animations, games and applications for Apple, PC and Android platforms.
- **Cyber Security Concentration**  
Set up, manage, and audit security technologies.
- **Computer Science Teacher Certification**
- **Minor in Computer Science**  
Students may minor in computer science by completing 18 semester credit hours of computer science courses. These include Computer Science 1309, 1320, 2315 and either 2305 or 2360, plus two upper-level CS, CIS, CSAT, or CSST courses.

## Degree Plans:

### COMPUTER SCIENCE TRADITIONAL

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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#### **Computer Science Major – (Minor Required)**

##### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302/ENG 2311	3 credit hours
MATH 1314	3 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	MATH 1316	3 credit hours
CS 1309	3 credit hours	CS 1320	4 credit hours
Creative Arts Core	3 credit hours	Life & Physical Science + Lab	4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

##### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
Life & Physical Science + Lab	4 credit hours	COMM 1310/1311/1320	3 credit hours
Language, Philosophy, & Culture Core	3 credit hours	Additional BS Science + Lab	4 credit hours
CS 2315	3 credit hours	PS 2306	3 credit hours
CS 2308/ Component Area Option Core	3 credit hours	CS 2360/ CS, CSST, CSAT Elective	3 credit hours
PS 2305	3 credit hours	Social & Behavioral Science Core	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
CS 4340/ CS, CSST, CSAT 3000+ Elective	3 credit hours	CS 3316/ 3310	3 credit hours
CS 3331/ CS, CSST, CSAT 3000+ Elective	3 credit hours	CS 4320	3 credit hours
Component Area Option Core/ CSAT 2308	3 credit hours	CS, CSST, CSAT Elective/ CS 2360	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Elective	3 credit hours	CSAT 3360/ Minor Coursework	3 credit hours
Total: 14 sch		Total: 12-15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
CSAT 4310	3 credit hours	CS 3310/ 3316	3 credit hours
CS, CSST, CSAT 3000+ Elective/ CS 4310	3 credit hours	CSAT 4320	3 credit hours
CS, CSST, CSAT 3000+ Elective/ CS 3331	3 credit hours	CSAT 4311	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework/ CSAT 3360	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Science in Computer Science: 120**

### Graduation Requirements:

1. Cumulative GPA (Overall GPA of 2.0 required for graduation, 2.0 in major field.)
  2. SCH completed in residence (Minimum of 30 sch; 15 sch advanced)
  3. Number of sch of the last 30 sch completed in residence (minimum of 24 sch)
  4. Number of sch advanced course work completed (36 sch required; 15 sch residence)
  5. Number of sch advanced course work completed in Major (Minimum of 18 sch, 12 sch in residence.)
  6. Total number of sch completed for the degree (minimum 120 sch)
  7. All students are responsible for maintaining a current copy of their degree plan.
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## COMPUTER SCIENCE GAMING TECHNOLOGY

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Computer Science Major – (Minor Required) Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302/ENG 2311	3 credit hours
MATH 1314	3 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	MATH 1316	3 credit hours
CS 1309	3 credit hours	CS 1320	4 credit hours
Creative Arts Core	3 credit hours	Life & Physical Science + Lab	4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
Life & Physical Science + Lab	4 credit hours	COMM 1310/1311/1320	3 credit hours
Language, Philosophy, & Culture Core	3 credit hours	Component Area Core	3 credit hours
CS 2315	3 credit hours	PS 2306	3 credit hours
CS 2308/ 2309	3 credit hours	CSAT 2310/2315	3 credit hours
PS 2305	3 credit hours	Social & Behavioral Science Core	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
CSAT 2309/ 2308	3 credit hours	CSAT 2315/ 2310	3 credit hours
Minor Coursework	3 credit hours	CS 2360/ CS, CSST, CSAT 3000+ Elective	3 credit hours
Minor Coursework	3 credit hours	CSAT 3360/ Minor Coursework	3 credit hours
Additional BS Science + Lab	4 credit hours	CSAT 4301/ Minor Coursework	3 credit hours
		CSAT 3380/ CS, CSST, CSAT 3000+ Elective	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
CSAT 4310	3 credit hours	CS, CSST, CSAT 3000+ Elective/ CS 2360	3 credit hours
CS, CSST, CSAT 3000+ Elective	3 credit hours	CSAT 4311	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework/ CSAT 3360	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework/ CSAT 4301	3 credit hours
3000+ Elective	3 credit hours	CS, CSST, CSAT 3000+ Elective/ CSAT 3380	3 credit hours
Total: 14 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Science in Computer Science: 120**

### Graduation Requirements:

1. Cumulative GPA (Overall GPA of 2.0 required for graduation, 2.0 in major field.)
  2. SCH completed in residence (Minimum of 30 sch; 15 sch advanced)
  3. Number of sch of the last 30 sch completed in residence (minimum of 24 sch)
  4. Number of sch advanced course work completed (36 sch required; 15 sch residence)
  5. Number of sch advanced course work completed in Major (Minimum of 18 sch, 12 sch in residence.)
  6. Total number of sch completed for the degree (minimum 120 sch)
  7. All students are responsible for maintaining a current copy of their degree plan.
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## COMPUTER SCIENCE CYBER SECURITY

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Computer Science Major – (Minor Required)

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302/ENG 2311	3 credit hours
MATH 1314	3 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	MATH 1342	3 credit hours
CS 1309	3 credit hours	CS 1320	4 credit hours
CSST 1340/ Creative Arts Core	3 credit hours	CSST 2372/ 1370	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
Life & Physical Science + Lab	4 credit hours	COMM 1310/1311/1320	3 credit hours
CS 2315	3 credit hours	PS 2306	3 credit hours
PS 2305	3 credit hours	CS 3310/ CSST 2360	3 credit hours
Component Area Option/ CSAT 2308	3 credit hours	CSST 2372/ 1370	3 credit hours
CSST 1340/ Creative Arts Core	3 credit hours	Life & Physical Science + Lab	4 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

### Odd Summer After Sophomore/Junior Year

Semester			
CSST 3322	3 credit hours		
<b>Total: 3 sch</b>			

### Junior Year

Semester V, Fall		Semester VI, Spring	
Component Area Option Core/ CSAT 2308	3 credit hours	Minor Coursework/ CSST 4372	3 credit hours
CSST 4374/ 3382	3 credit hours	CS 3310/ CSST 2360	3 credit hours
Social & Behavioral Science Core	3 credit hours	Minor Coursework/ CSAT 3360	3 credit hours
Language, Philosophy, & Culture Core	3 credit hours	Additional BS Science + Lab	4 credit hours
Minor Coursework	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 13 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
CSAT 4310	3 credit hours	CSAT 4311	3 credit hours
Minor Coursework	3 credit hours	CSST 4372/ Minor Coursework	3 credit hours
CSST 3382/ 4374	3 credit hours	CSAT 3360/ Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
General Elective	2 credit hours		
<b>Total: 14 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Computer Science: 120**

### Graduation Requirements:

1. Cumulative GPA (Overall GPA of 2.0 required for graduation, 2.0 in major field.)
2. SCH completed in residence (Minimum of 30 sch; 15 sch advanced)
3. Number of sch of the last 30 sch completed in residence (minimum of 24 sch)
4. Number of sch advanced course work completed (36 sch required; 15 sch residence)
5. Number of sch advanced course work completed in Major (Minimum of 18 sch, 12 sch in residence.)
6. Total number of sch completed for the degree (minimum 120 sch)
7. All students are responsible for maintaining a current copy of their degree plan.



## COMPUTER SCIENCE SECONDARY CERTIFICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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### **Computer Science Major – (Minor Required)**

#### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302/ENG 2311	3 credit hours
MATH 1314	3 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	MATH 1316	3 credit hours
CS 1309	3 credit hours	CS 1320	4 credit hours
Creative Arts Core	3 credit hours	Life & Physical Science + Lab	4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

#### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
Life & Physical Science + Lab	4 credit hours	COMM 1310/1311/1320	3 credit hours
Language, Philosophy, & Culture Core	3 credit hours	Additional BS Science + Lab	4 credit hours
CS 2315	3 credit hours	PS 2306	3 credit hours
Component Area Option Core	3 credit hours	CSAT 2360	3 credit hours
PS 2305	3 credit hours	CS 3316	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
Social & Behavioral Science Core	3 credit hours	CS 3000+ Elective	3 credit hours
CS 3331	3 credit hours	CS 4311	3 credit hours
CSAT 4310	3 credit hours	CS 4320	3 credit hours
CS 4340	3 credit hours	CSAT 3360	3 credit hours
CSAT 2308	3 credit hours	ED 3302	3 credit hours
		ED 4314	3 credit hours
Total: 15 sch		Total: 18 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
CSAT 3310	3 credit hours	ED 3300	3 credit hours
MATH 2306	3 credit hours	ED 4322	3 credit hours
CS 3000+ Elective	3 credit hours	ED 4605	3 credit hours
ED 3301	3 credit hours		
ED 3303	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Science in Computer Science: 120**

### Graduation Requirements:

1. Cumulative GPA (Overall GPA of 2.0 required for graduation, 2.0 in major field.)
  2. SCH completed in residence (Minimum of 30 sch; 15 sch advanced)
  3. Number of sch of the last 30 sch completed in residence (minimum of 24 sch)
  4. Number of sch advanced course work completed (36 sch required; 15 sch residence)
  5. Number of sch advanced course work completed in Major (Minimum of 18 sch, 12 sch in residence.)
  6. Total number of sch completed for the degree (minimum 120 sch)
  7. For all Computer Science courses used in the major – Must make a “C” or higher.
  8. All students are responsible for maintaining a current copy of their degree plan.
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## **B.S., GEOLOGY**

### Overview:

For undergraduates, the Geology Program offers two Bachelor of Science-Geology degrees and a Geology minor. Currently these degrees are only face-to-face; there is no online BS degree.

The **Bachelor of Science-Geology** degree prepares students for employment as an entry-level geologist and for graduate study. The curriculum provides a solid background in geology and has been designed following guidelines from national geological organizations. Required courses cover broad areas of Earth processes, Earth history and stratigraphy, mineralogy and petrology, as well as structural geology and tectonics. Advanced electives include courses in those areas as well as in areas of Geographic Information Systems (GIS), geomorphology, groundwater, and paleontology (invertebrate and vertebrate). All courses are hands-on and field trips are commonly offered in each course. Field Geology is the required capstone course where students are expected to use and apply all aspects of the science to real-world geologic problems.

The **Bachelor of Science-Geology; Composite Science Certification** degree prepares students to teach Geology, Earth Science, or General Science at public or private schools. The curriculum requires basic freshman and sophomore courses in Biology, Chemistry, Geology, Mathematics, and Physics. Students are also required to take several junior and/or senior level Geology courses. This degree does not require a minor. Instead, students take 24 hours of junior and senior level Education courses for teaching certification.

A **minor in Geology** is available and consists of 18 hours. It is a mix of required freshman (Physical Geology GEOL 1303/1103 OR Environmental Geology GEOL 1305/1105, and Historical Geology GEOL 1304/1104) and sophomore (Lithology GEOL 2401) courses and junior level geology electives. Suggested electives include: Geology of west Texas (GEOL 3301), Dinosaurs. Volcanoes, and Earthquakes (GEOL 3302), Geology of the western National Parks (GEOL 3305), Interdisciplinary Geographic Information Systems (GEOL 3401), Invertebrate Paleontology (GEOL 3411), and Geomorphology (GEOL 3412).

### **SRSU@MC**

Since 2002 there has been a partnership between Sul Ross State University and Midland College (SRSU@MC) that allows students to earn a Sul Ross Geology Bachelor of Science degree and remain in Midland, Texas. Students take freshman and sophomore courses at Midland College from Midland College faculty, but take junior and senior courses, delivered to Midland College using real-time, interactive video conferencing, from Sul Ross faculty. Sul Ross Geology faculty work with the Midland College faculty to make sure the hands-on, lab and field experience is the same for the Midland students as it is for the students on the Sul Ross campus.

### **Master of Science degree**

For graduate students, the Geology Program offers a Master of Science-Geology degree. The Geology Program stresses completion of a thesis. Currently the degree is only face-to-face; there is no on-line MS degree.

For more information see the [Geology MS](#) (Master of Science) page.

### **Degree Plans:**

## **GEOLOGY**

### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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Visit [Academic Advising to learn more.](#)  
[Certification Requirements](#)  
[Concentration Requirements](#)  
[Core Curriculum](#)

## Geology Major – (Minor Required)

### Freshman Year

Semester I, Fall		Semester II, Spring	
GEOL 1303/1103	4 credit hours	GEOL 1304/1104	4 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314/1316/2413	3-4 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	CHEM 1311/1111	4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 14-15 sch</b>		<b>Total: 14 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
GEOL 2405	4 credit hours	GEOL 2401 or 2408	4 credit hours
Language, Philosophy, & Culture Core Req	3 credit hours	MATH 1316, 2413, or higher	3-4 credit hours
PS 2305	3 credit hours	Social & Behavioral Science Core Req	3 credit hours
Creative Arts Core Req	3 credit hours	PS 2306	3 credit hours
		Minor Coursework	3-4 credit hours
<b>Total: 13 sch</b>		<b>Total: 16-18 sch</b>	

### Junior Year

Semester V, Fall		Semester VI, Spring	
GEOL 3000+ Elective (Group II)	3-4 credit hours	GEOL 3000+ Elective (Group II)	3-4 credit hours
GEOL 3408	3 credit hours	GEOL 3402	4 credit hours
PHYS 1301 + 1101	4 credit hours	Component Area Core Req	3 credit hours
Component Area Core Req	3 credit hours	CHEM 1312 + 1112/ PHYS 1302 + 1102	4 credit hours
Minor Coursework	3-4 credit hours	Minor Coursework	3-4 credit hours
<b>Total: 17-19 sch</b>		<b>Total: 17-19 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
GEOL 3000+ Elective (Group II)	3-4 credit hours	GEOL 3000+ Elective (Group II)	3-4 credit hours
GEOL 4401	4 credit hours	GEOL 4403	4 credit hours
Minor Coursework	3-4 credit hours	Minor Coursework	3-4 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
<b>Total: 13-15 sch</b>		<b>Total: 13-15 sch</b>	

Summer I			
GEOL 4601	6 credit hours		
<b>Total: 6 sch</b>			

**Total Credit Hours Required for Bachelor of Science in Geology: 120**

This degree plan includes:

42 Core credit hours

10 Bachelor of Science credit hours

50 Geology major credit hours

18-22 minor hours

TOTAL HOURS: 120-130

## GEOLOGY SECONDARY CERTIFICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)  
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### **Geology Certification Major Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
GEOL 1303/1103	4 credit hours	GEOL 1304/1104	4 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314/1316/2413	3-4 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	MATH 1316, 2413, or higher	3-4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 14-15 sch</b>		<b>Total: 14 sch</b>	
<b>Summer I</b>		<b>Summer II</b>	
CHEM 1311/1111	4 credit hours	CHEM 1312/1112	4 credit hours
<b>Total: 4 sch</b>		<b>Total: 4 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
GEOL 2405	4 credit hours	GEOL 3000+ Elective (Group II)	3-4 credit hours
Social & Behavioral Science Core Req	3 credit hours	Component Area Core Req	3 credit hours
Creative Arts Core Req	3 credit hours	L, P, & C Core Req	3 credit hours
PHYS 1301/1101	4 credit hours	PHYS 1302/1102	4 credit hours
<b>Total: 14 sch</b>		<b>Total: 13-14 sch</b>	
<b>Summer I</b>		<b>Summer II</b>	
BIOL 1306/1106	4 credit hours	BIOL 1307/1107	4 credit hours
<b>Total: 4 sch</b>		<b>Total: 4 sch</b>	

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
GEOL 3408	4 credit hours	GEOL 3402	4 credit hours
Component Area Core Req	3 credit hours	GEOL 4403	4 credit hours
PS 2305	3 credit hours	ED 3302 (Block I)	3 credit hours
GEOL 3302	3 credit hours	ED 4314 (Block I)	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 14 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
GEOL 3000+ Elective (Group II)	3-4 credit hours	ED 3300 (Block III)	3 credit hours
PS 2306	3 credit hours	ED 4322 (Block III)	3 credit hours
ED 3301 (Block II)	3 credit hours	ED 4605	6 credit hours
ED 3303 (Block II)	3 credit hours		
Total: 12-13 sch		Total: 12 sch	

### Total Credit Hours Required for Bachelor of Science in Geology: 121-125

This degree plan includes:

44 Core credit hours

8 Bachelor of Science credit hours

44 Geology major credit hours

24 Ed certification hours

TOTAL HOURS: 121-125

## B.S., INDUSTRIAL TECHNOLOGY

### Overview:

The **Bachelor of Science in Industrial Technology** is designed to be a broad-based student-centered program that prepares students with marketable technical skills for careers in business, industry, education, and government. The management-oriented technical curriculum is built upon a balanced program of study drawn from a variety of disciplines related to manufacturing and construction technology allowing students to gain a broad range of skills and experiences. Sul Ross offers students the opportunity to not only build their technical and communication skills, but also their sense of collaboration and innovation. Graduates of the program will be equipped with the skills to be creative and technically proficient professionals who can help solve some of today's most complex issues.

The degree covers topics of interest related to industry including construction management, project management, six sigma, lean manufacturing, supply chain/logistics, safety, maintenance, production planning, and other related areas.

Students tailor degree studies to suit their professional interests and may complete a specialization in one of the following focus areas: **Construction Management**, or **Manufacturing Technology**.

For students interested in pursuing a graduate degree, business administration courses are embedded in the curriculum and used to prepare students for an MBA program or to provide a seamless pathway to graduate school in another technical discipline.

To complete an **Industrial Technology minor**, students must earn at least 18 semester credit hours of Industrial Technology courses with at least six semester hours of the minor at the upper-division level.

## Degree Plans:

### CONSTRUCTION MANAGEMENT

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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[Certification Requirements](#)

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[Core Curriculum](#)

### **Bachelor of Science in Industrial Technology – Construction Management Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
HIST 1301	3 credit hours	ENG 2311	3 credit hours
ENG 1301	3 credit hours	MATH 1314/1316/1332/1342	3 credit hours
MATH 1314/1316/1332/1342	3 credit hours	IT 1303	3 credit hours
Life & Physical Science Core	3 credit hours	IT 1309	3 credit hours
IT 1308	3 credit hours	HIST 1302	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
IT 2303	3 credit hours	IT 2355	3 credit hours
IT 2313	3 credit hours	Creative Arts Core Req	3 credit hours
Social & Behavioral Science Core Req	3 credit hours	Language, Philosophy, & Culture Core Req	3 credit hours
IT 2365	3 credit hours	PS 2305	3 credit hours
COMM 1311	3 credit hours	Component Area Core Req	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
PS 2306	3 credit hours	IT 3303/4303	3 credit hours
IT 3309	3 credit hours	IT 3325	3 credit hours
IT 3312	3 credit hours	IT 3355	3 credit hours
IT 3324	3 credit hours	IT 2309	3 credit hours
ACCT 2301	3 credit hours	MGT 3360	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	



## Senior Year

Semester VII, Fall		Semester VIII, Spring	
IT 4301	3 credit hours	IT 4309	3 credit hours
IT 4313	3 credit hours	IT 4310/3323	3 credit hours
IT 4319	3 credit hours	IT 4329	3 credit hours
MKT 3370	3 credit hours	MGT 3363	3 credit hours
GBA 4355	3 credit hours	MKT 4361	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Science in Industrial Technology: 121**

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## MANUFACTURING

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

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## **Bachelor of Science in Industrial Technology – Manufacturing Freshman Year**

Semester I, Fall		Semester II, Spring	
HIST 1301	3 credit hours	ENG 2311	3 credit hours
ENG 1301	3 credit hours	MATH 1314/1316/1332/1342	3 credit hours
MATH 1314/1316/1332/1342	3 credit hours	IT 1303	3 credit hours
Life & Physical Science Core Req	3 credit hours	IT 1309	3 credit hours
IT 1308	3 credit hours	HIST 1302	3 credit hours
SRSU 1101	1 credit hour	IT 1306	3 credit hours
Total: 16 sch		Total: 18 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
IT 2305	3 credit hours	IT 2306	3 credit hours
IT 2307	3 credit hours	Creative Arts Core Req	3 credit hours
Social & Behavioral Science Core Req	3 credit hours	Language, Philosophy, & Culture Core Req	3 credit hours
IT 2309	3 credit hours	PS 2305	3 credit hours
IT 2303	3 credit hours	COMM 1311	3 credit hours
IT 2365	3 credit hours		
<b>Total: 18 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
PS 2306	3 credit hours	IT 3319	3 credit hours
IT 3316	3 credit hours	IT 2314	3 credit hours
IT 3323	3 credit hours	IT 2316	3 credit hours
Component Area Core Req	3 credit hours	MGT 3360	3 credit hours
ACCT 2301	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
IT 4301	3 credit hours	IT 4317	3 credit hours
IT 4307	3 credit hours	IT 4329	3 credit hours
IT 4306	3 credit hours	MGT 3363	3 credit hours
MKT 3370	3 credit hours	MKT 4361	3 credit hours
GBA 4355	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Industrial Technology: 121**

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## **B.S., MATHEMATICS**

### Overview:

The **Bachelor of Science in Mathematics** program's primary goal is preparing teachers of mathematics at the elementary and secondary levels. A broad variety of coursework at the undergraduate level has been designed to support this goal, as well as to adequately prepare students for careers in industry or further study in graduate school. Small class sizes lead to one-on-one interactions with instructors, giving students a unique opportunity for deep learning. All major courses are taught by Ph.D. instructors. The opportunity for independent study and undergraduate research are available. All majors have the opportunity to attend at least one conference within the state funded by the mathematics department.

Some mathematics courses may be taken for graduate credit in support of a Master of Education degree in Secondary Education with a specialization in Mathematics. Additionally, a pre-engineering program is available through the department. Students complete most undergraduate core curriculum requirements before transferring to other universities to complete their engineering degrees.

A **minor in Mathematics** is available and requires 21-27 semester credit hours. Required courses include MATH 2318 Linear Algebra, MATH 2413 Calculus I, 2414 Calculus II, MATH 3415 Calculus III, and two upper-level classes. Some students may need to level College Algebra (MATH 1314) and Trigonometry (MATH 1316). Consult your advisor in your major department.

Consult your advisor in your major department.

### **Alpine Program Coordinator**

Dr. Angela Brown  
abrown4@sulross.edu  
432.837.8223

### **RGC Program Coordinator**

Dr. Michael Ortiz  
mortiz4@sulross.edu  
830.279.3048

### **Degree Plans:**

## [MATHEMATICS](#)

### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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### **Bachelor of Science in Mathematics (Minor Required)**

#### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302 or 2311	3 credit hours
MATH 2413	4 credit hours	MATH 2414	4 credit hours
Life & Physical Science Core + Lab	4 credit hours	Life & Physical Science Core + Lab	4 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 15 sch</b>		<b>Total: 14 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
Federal Gov't	3 credit hours	State Gov't	3 credit hours
MATH/MTH 3415	4 credit hours	Component Area Option 2 Core or 2000 or Higher Math*	3 credit hours
Component Area Option 2 Core or CS 1309*	3 credit hours	Social & Behavioral Sciences Core	3 credit hours
MATH 2318	3 credit hours	Creative Arts Core	3 credit hours
Language, Philosophy, & Culture Core	3 credit hours	COMM 1310, 1311, or 1320	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
PHYS 2325 + Lab or equivalent	4 credit hours	PHYS 2326 + Lab or equivalent	4 credit hours
MATH/MTH 3xxx or 4xxx	3 credit hours	MATH/MTH 3340	3 credit hours
MATH/MTH 3301	3 credit hours	MATH/MTH 3305 or 4301	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
		Minor Coursework	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 16 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
MATH/MTH 3305 or 4301	3 credit hours	MATH/MTH 4320	3 credit hours
MATH/MTH 3xxx or 4xxx	3 credit hours	MATH/MTH 4390	3 credit hours
MATH/MTH 3xxx or 4xxx	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Elective**	3 credit hours
Minor Coursework	3 credit hours	Elective**	3 credit hours
Elective	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Total Credit Hours Required for Bachelor of Science in Mathematics: 120

\*The suggested semester for the Component Area Option 2 Core will depend upon your campus.

\*\*Elective courses may be used to cover math leveling courses or transfer courses listed on memoranda of understanding with other institutions.

## MATHEMATICS SECONDARY CERTIFICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Bachelor of Science in Mathematics with Education Certification minor Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 2413	4 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	Life & Physical Science Core + Lab	4 credit hours
Life & Physical Science Core + Lab	4 credit hours	MATH 2414	4 credit hours
SRSU 1101	1 credit hour	Elective Credit*	1 credit hour
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
MATH/MTH 3415	3 credit hours	COMM 1310, 1311, or 1320	3 credit hours
Language, Philosophy, & Culture Core	4 credit hours	Math/MTH 3305	3 credit hours
CS 1309	3 credit hours	Social & Behavioral Sciences Core	3 credit hours
MATH 2318	3 credit hours	PS 2306	3 credit hours
PS 2305	3 credit hours	MATH/MTH 3340	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
PHYS 2125 + Lab or equivalent	4 credit hours	PHYS 2126 + Lab or equivalent	4 credit hours
MATH/MTH 3xxx or 4xxx	3 credit hours	MATH/MTH 4320	3 credit hours
MATH/MTH 3301	3 credit hours	MATH/MTH 3xxx or 4xxx	3 credit hours
Component Area Option Core	3 credit hours	ED 3302	3 credit hours
Creative Arts Core	3 credit hours	ED 4314	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
MATH/MTH 4301	3 credit hours	ED 3300	3 credit hours
MATH/MTH 4390	3 credit hours	ED 4322	3 credit hours
MATH/MTH 3xxx or 4xxx	3 credit hours	ED 4605	6 credit hours
ED 3301	3 credit hours		
ED 3303	3 credit hours		
Total: 15 sch		Total: 12 sch	

## Total Credit Hours Required for Bachelor of Science in Mathematics with Education Certification: 120

\*Some students may need to level MATH 1314 and MATH 1316/MATH 2312.

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## [B.S., NATURAL RESOURCE MANAGEMENT](#)

### Overview:

Our classroom is the great outdoors – the Big Bend region of Texas. The Natural Resource Management faculty and staff share their students' passion and respect for nature and wildlife. If you're looking for a school where you can immerse yourself in studying range ecology, wildlife biology, ranching or conservation, you'll feel right at home in this wide-open country. The Sul Ross NRM program is built on giving our students the hands-on training and experience they will need in their future careers and a solid footing in scientific principles. Our students and graduates spend a lot of time out in the field, studying the natural world. They work in labs and on remote sites, learning how to use sophisticated equipment to measure and analyze the environment. Our students get experience with real world research through the Borderlands Research Institute. Undergraduate students choose from a concentration in Conservation Biology or Range and Wildlife Management. The Department of Natural Resource Management has both a Bachelor's and Master's program.

### Degree Plans:

## [CONSERVATION BIOLOGY](#)

### All undergraduates must be advised in order to register/enroll in courses in a future term.

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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[Concentration Requirements](#)

[Core Curriculum](#)

## Bachelor of Science in Natural Resource Management, Conservation Biology concentration

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	CHEM 1311 + Lab or GEOL 1303 + Lab	4 credit hours
NRM 1101	1 credit hour	BIOL 1307 + Lab	4 credit hours
BIOL 1306 + Lab	4 credit hours	NRM 2301	3 credit hours
NRM 2330	3 credit hours	NRM 2303	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 17 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
PS 2305	3 credit hours	*COMM 1320 or 1311	3 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	NRM 1301	3 credit hours
NRM 3305	3 credit hours	*NRM 3302 and/or 4303 and/or 4314	3 credit hours
NRM 2305 or 3303	3 credit hours	NRM 4314	3 credit hours
*AGB 4308 or BIOL 3306	3 credit hours	*BIOL 3307 and/or CJ 3304 and/or COMM 3304	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### Junior Year

Semester V, Fall		Semester VI, Spring	
NRM 3304	3 credit hours	*COMM 1320 or 1311	3 credit hours
NRM 3308	3 credit hours	NRM 4409 or 4410	4 credit hours
*ENG 2315 or 2331	3 credit hours	ENG 2311	3 credit hours
*NRM 4307, 4309, or 3303	3 credit hours	NRM 4301	3 credit hours
GEOL 3401	4 credit hours	Elective	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
GEOL 3401	4 credit hours	FA 1302 or 1315	3 credit hours
BIOL 4402 or 4403	4 credit hours	NRM 4305	3 credit hours
NRM 4304	3 credit hours	NRM 4302	3 credit hours
PS 2306	3 credit hours	Elective (if needed)	3 credit hours
<b>Total: 17 sch</b>		<b>Total: 15 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Natural Resource Management, concentration in Conservation Biology: 122-125 credit hour**

\*Several options meet this requirement. Consult your adviser for specific lists.



## RANGE AND WILDLIFE MANAGEMENT

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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### **Bachelor of Science in Natural Resource Management, Range & Wildlife Management concentration Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	CHEM 1311 + Lab	4 credit hours
NRM 1101	1 credit hour	BIOL 1307 + Lab	4 credit hours
BIOL 1306 + Lab	4 credit hours	NRM 2301	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 14 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
PS 2305	3 credit hours	*COMM 1320 or 1311	3 credit hours
CHEM 1312, GEOL 1303, or PHYS 1301	3 credit hours	NRM 4303	3 credit hours
*ENG 2341 or PHIL 1301	3 credit hours	ENG 2311	3 credit hours
NRM 3305	3 credit hours	MATH 1342	3 credit hours
NRM 2305 or 3303	3 credit hours	NRM 3302	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
NRM 3304	3 credit hours	*PSY 1302 or ECO 2301	3 credit hours
NRM 3308	3 credit hours	NRM 4409 or 4410	4 credit hours
ENG 2315 or 2331	3 credit hours	NRM 3301 or 4314	3 credit hours
NRM 2305 or 3303	3 credit hours	ANSC 3416	4 credit hours
NRM 4307	3 credit hours	RCH 4301	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 17 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
GEOL 3401	4 credit hours	*FA 1302 or 1315	3 credit hours
NRM 4308	3 credit hours	NRM 4305	3 credit hours
NRM 4304	3 credit hours	NRM 3301 or 4314	3 credit hours
PS 2306	3 credit hours	ANSC 4305	3 credit hours
Total: 17 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Science in Natural Resource Management, concentration in Range and Wildlife Management: 121**

\*Several options meet this requirement. Consult your adviser for specific lists.

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## **B.S., NURSING**

### Overview:

Sul Ross offers a **Bachelor of Science in Nursing** as well as an **RN to BSN completion program** for nurses who have completed the pre-license level and subsequent RN licensure.

The **Bachelor of Science in Nursing** program serves the Big Bend Region and is designed to prepare nursing professionals who are ready to lead for a better and healthier future of members of the communities in the rural border regions of Texas. The outcomes of pre-licensure BSN track are directed toward developing professional nursing knowledge and skills, with a focus on holistic, patient-centered care, and promoting health and well-being to individuals in remote, rural border communities. The nursing program is an integrated, concept-based curriculum that is delivered through in-person, online-learning, simulation laboratories and clinical learning environments within the remote rural Texas-Mexico border region. This unique program focuses on the development of competent entry level nursing care consistent with evidence-informed clinical decision-making practice; the health of individuals, families, communities and populations; legal and ethical issues in health care; the assumption of leadership and management roles; and desire and curiosity for life-long learning. The BSN program's learning activities and projects are designed to provide a strong foundation for professional nursing practice and future, professional endeavors. Classroom, on-line, laboratory, and clinically based learning experiences engage and stimulate students to accomplish course and program objectives outcomes. Students engage in a variety of clinical learning experiences with patients in hospitals, clinics, primary-care-provider offices, home health agencies, and varied community health facilities. A well-equipped skills and simulation laboratory provide the opportunity for nursing students to develop required nursing and patient interaction skills prior to engaging in clinical learning opportunities with patients. State and national standards are reflected in learning activities for each course. Graduates are prepared to be generalists who will demonstrate the entry level professional nursing skills.

The **RN to BSN completion program** is designed to prepare nursing graduates who will demonstrate the highest of professional nursing skills. It will allow nurses who have completed the pre-license level and subsequent RN licensure to advance their professional qualifications while continuing to live and work within or outside of the region. This on-line program focuses on access to and use of evidence in clinical decision making; the delivery of expert nursing care consistent with evidence-based practice; the health of individuals, families, communities and populations; legal and

ethical issues in health care; and the assumption of increasing leadership and management roles. The curriculum is designed to provide flexibility in student progression. Requirements can be completed in one year while students are working full- or part-time. Courses scheduled during the fall and spring semesters are eight weeks in length, thus allowing students to take four courses in a long semester, if desired. Summer courses remain at ten-weeks, which extend over the two five-week semesters. BSN education provides increased employment opportunities and a natural progression to graduate school and expanded roles in education, administration, and advanced practice, including nurse practitioner (NP), clinical nurse specialist (CNS), nurse midwifery (CNM), clinical nurse leader (CNL), and certified registered nurse anesthetist (CRNA).

## Degree Plans:

### NURSING

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Concentration Requirements](#)  
[Core Curriculum](#)

## **Bachelor of Science in Nursing**

### **Freshman Year**

Semester I, Fall		Semester II, Spring	
SRSU 1101	1 credit hour	ENG 1302	3 credit hours
ENG 1301	3 credit hours	HIST 1302	3 credit hours
HIST 1301	3 credit hours	MATH 1314	3 credit hours
PSY 1302	3 credit hours	PS 2306	3 credit hours
CHEM 1311/1312	3 credit hours	BIOL 2301 + Lab	4 credit hours
PS 2305	3 credit hours		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

### **Sophomore Year**

Semester III, Fall		Semester IV, Spring	
Visual/Perf. Arts	3 credit hours	PHIL 1301	3 credit hours
COMM 1310/1311	3 credit hours	BIO 1340	3 credit hours
BIOL 2302 + Lab	4 credit hours	MATH 1342	3 credit hours
ENG 2315	3 credit hours	PSY 2314	3 credit hours
		BIOL 2321 + Lab	4 credit hours
<b>Total: 13 sch</b>		<b>Total: 16 sch</b>	

### Summer Sessions prior to Year 3

Session I		Session II	
NUR 3311	3 credit hours	NUR 3314	3 credit hours
Total: 3 sch		Total: 3 sch	

### Junior Year

Semester V, Fall		Semester VI, Spring	
NUR 3201	2 credit hours	NUR 3220	3 credit hours
NUR 3304	3 credit hours	NUR 3310	3 credit hours
NUR 3312 + Lab	3 credit hours	NUR 3341 + Lab	4 credit hours
NUR 3540 + Lab & Clinical	5 credit hours	NUR 3413 + Lab	4 credit hours
Total: 13 sch		Total: 14 sch	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
NUR 4321	3 credit hours	NUR 4322	2 credit hours
NUR 4414 + Lab	4 credit hours	NUR 4305 & Clinical	3 credit hours
NUR 4542	3 credit hours	NUR 4415 + Lab	4 credit hours
		NUR 4544-Clinical	5 credit hours
Total: 12 sch		Total: 14 sch	

**Total Credit Hours Required for Bachelor of Science in Nursing: 120**

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### [R.N. TO B.S.N](#)

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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## Bachelor of Science in Nursing

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1342	3 credit hours	MATH 1314	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
BIOL 2301 + 2101	4 credit hours	PSY 1302	3 credit hours
SRSU 1101	1 credit hour	BIOL 2302 + 2102	4 credit hours
<b>Total: 14 sch</b>		<b>Total: 16 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
PS 2305	3 credit hours	BIOL 2321 + 2121	4 credit hours
CHEM 1311	3 credit hours	PS 2306	3 credit hours
Creative Arts Core Req	3 credit hours	PSY 2314	3 credit hours
ENG 2315	3 credit hours	PHIL 1301	3 credit hours
COMM 1310/1311	3 credit hours	BIOL 2320	3 credit hours
Total: 15 sch		Total: 16 sch	
Summer Semester			
NUR 3311	3 credit hours		
NUR 3314	3 credit hours		
Total: 6 sch			

### Junior Year

Semester V, Fall		Semester VI, Spring	
NUR 3201	2 credit hours	NUR 3310	3 credit hours
NUR 3304	3 credit hours	NUR 3413	3 credit hours
NUR 3312 + Lab	3 credit hours	NUR 3441 + Lab	4 credit hours
NUR 3540 + Lab & Clinical	5 credit hours	NUR 3320	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 14 sch</b>	

### Senior Year

Semester VII, Fall		Semester VIII, Spring	
NUR 4321	3 credit hours	NUR 4322	2 credit hours
NUR 4414 + Lab	4 credit hours	NUR 4415 + Lab	4 credit hours
NUR 4542-Clinical	5 credit hours	NUR 4544-Clinical	5 credit hours
		NUR 4305	3 credit hours
<b>Total: 12 sch</b>		<b>Total: 14 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Nursing: 120**

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## COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES

The College of Education and Professional Studies recognizes the diverse needs in education and takes advantage of each opportunity to create meaningful learning experiences throughout all our programs. We offer small class sizes in both our traditional and online programs and adult learning techniques to engage students on a personal level. Our excellent faculty prepares students in a vast array of careers and educational endeavors by providing a quality learning environment through lecture, practical application, research, and internships. Our rich academic curriculum empowers students with the skills and confidence needed in today's diverse global communities. We pride ourselves in teaching, being flexible, assisting and advising students.

The College of Education and Professional Studies includes the Departments of Business Administration, Education, Homeland Security and Criminal Justice, Kinesiology, and the Law Enforcement Academy offering Bachelor's and Master's Degrees, as well as certifications and licensures.

### Undergraduate Programs of Study

- [Business Administration](#)
- [Criminal Justice](#)
- [Homeland Security](#)
- [Kinesiology and Human Performance](#)
- The Science of Teaching Reading (STR)
- [Undergraduate Teacher Education Program](#)

### Graduate Programs of Study

- [Master of Business Administration](#)
- Master of Education with the following areas of Emphasis:
  - [Education Program-M.Ed. General](#)
  - [Education Program-M.Ed. General with Alternative Certification](#)
  - [Educational Instructional Technology Program-M.Ed.](#)
  - [Counseling Program-M.Ed. Counseling \(CMH-LPC track\) OR taking additional LPC classes](#)
  - [Counseling Program-M.Ed. Counseling \(school counseling certification track\) OR Certification only](#)
  - [Diagnostician Program-M.Ed. Diagnostician with certification OR Certification only](#)
  - [Leadership Program-M.Ed. Leadership with certification OR Certification only](#)
  - [Reading Program-M.Ed. Reading with certification OR Certification only](#)
  - [Superintendent Certification Program](#)
- [Master of Science in Criminal Justice](#)
- [Master of Science in Homeland Security](#)
- [Master of Science in Health and Human Performance](#)

### Areas of Certification (Education):

- Certify Teacher
- TExES
- Teacher Ed and Professional Certification Application

### Areas of Licensure:

- Athletic Training

## B.B.A., BUSINESS ADMINISTRATION

### **Overview:**

The **Bachelor of Business Administration** degree provides a broad base of business knowledge, understanding, and skills. In this program students may take some business courses in the first year! The required university and business courses can be synchronized to provide a more career focused curriculum. This blending of business and general education courses enhances and reinforces the educational experience. The advanced business electives allow students to focus in a specific functional area or broaden their education across several areas of business. Successful graduates obtaining the BBA degree are well prepared to pursue a wide variety of business careers.

The Bachelor of Business Administration degree program prepares the undergraduate for managerial and administrative positions across a vast array of organizations. These include regional, national, and international private sector enterprises across numerous industries; responsible positions for non-profit organizations; positions in the public sector including government organizations at the local, state, and federal level and many others. The business undergraduate is prepared to pursue employment as a business generalist or in a more specialized field such as accounting, economics, finance, human resources or marketing. Business majors study economics, accounting, marketing, finance, global business, human resources, information systems, and business computer applications. Business majors select 14 sch free electives from other disciplines on campus, discovering new interests and enhancing their knowledge in new ways. Students are happier in a career that combines the solid foundation of this business education with personal interests.

A **minor in Bachelor of Business Administration** is available. Required courses include Accounting 2301, 3 sch; Economics 2301 and 2302, 6 sch; Finance 3340, 3 sch; Management 3360, 3 sch; Marketing 3370, 3 sch for a total of 18 sch.

The **Master of Business Administration** degree is recognized by industry and government as one of the best credentials for success in management. It is offered for students who are interested in preparing for positions of responsibility in management or who have attained a management position and are seeking to enhance their understanding of the latest concepts, tools, and techniques of management and administration. This graduate program will provide useful organizing and planning skills which are high in demand but in short supply. Policy determination and decision-making require sophisticated preparation at the graduate level. Sul Ross' MBA Program recognizes the experience already achieved by its participants and provides a flexible method for self-advancement.

### **Alpine Program Coordinator**

Dr. William Green

[wgreen@sulross.edu](mailto:wgreen@sulross.edu)

432.837.8067

### **RGC Program Coordinator**

Dr. Edison Moura

[emoura@sulross.edu](mailto:emoura@sulross.edu)

830.703.4840



## Degree Plan:

### BUSINESS ADMINISTRATION

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

#### **Business Administration Major Freshman Year**

Semester I, Fall		Semester II, Spring	
*ENG 1301	3 credit hours	*ENG 1302 or 2311	3 credit hours
*MATH 1314 or 1342	3 credit hours	*Life & Physical Science	3 credit hours
*Life & Physical Science	3 credit hours	*HIST 1302	3 credit hours
*Creative Arts	3 credit hours	*Language, Philosophy, Culture	3 credit hours
*Hist 1301	3 credit hours	**ECO/ECON 2301	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

#### **Sophomore Year**

Semester III, Fall		Semester IV, Spring	
*Component Area Option	3 credit hours	*Component Area Option	3 credit hours
**ACC 2301/ACCT 2401	3 credit hours	**ACC 2302/ACCT 2402	3 credit hours
**ECO/ECON 2302	3 credit hours	PS 2306	3 credit hours
PS 2305	3 credit hours	General Elective	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 16 sch</b>	

#### **Junior Year**

Semester V, Fall		Semester VI, Spring	
GBA/GBUS 3351	2 credit hours	GBA/GBUS 3350	3 credit hours
ACC/ACCT 3332	3 credit hours	MGT/MGMT 3322	3 credit hours
FIN/FINA 3340	3 credit hours	GBA/GBUS 3352	4 credit hours
MGT/MGMT 3306	5 credit hours	MKT/MKTG 3307	3 credit hours
Business Elective 3xxx or 4xxx	3 credit hours	Business Elective 3xxx or 4xxx	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
GBA/GBUS 4355	3 credit hours	NUR 4322	3 credit hours
Business Elective 3xxx or 4xxx	3 credit hours	Business Elective 3xxx or 4xxx	3 credit hours
Business Elective 3xxx or 4xxx	3 credit hours	Business Elective 3xxx or 4xxx	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Business Administration: 120**

### NOTES:

\*Students who have completed the Texas Core Curriculum at a Texas community college may have credit for some of the courses listed above.

\*\*These courses are departmental requirements.

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## **B.S., CRIMINAL JUSTICE**

### Overview:

The **Bachelor of Science degree with a major in Criminal Justice** is designed to meet the needs of students pursuing a career in several areas of the criminal justice system. The major qualifies graduates for employment in many public service professions. Opportunities currently exist for men and women in law enforcement, courts, and corrections agencies at the federal, state, and local levels of government. The Criminal Justice major is a general criminal justice degree with sets of electives catering to interests in policing, corrections, victim services and other areas of criminal justice. Some web-based courses are available and offer 24/7 worldwide access. Face-to-face classroom-based courses allow for hands on learning in areas such as criminal investigation, cybercrime, forensic ballistics, etc.

### Minor in Criminal Justice

Students who wish to minor in Criminal Justice must take CJ 1301, Introduction to Criminal Justice, CJ 4304, Criminology, and 12 additional hours of CJ courses including at least 6 hours of upper division (3000 or 4000 level) CJ courses. For these 12 hours, students should consult with a Homeland Security and Criminal Justice faculty member.

The **Master of Science degree with a major in Criminal Justice** is offered to serve the needs of several different groups of students: (1) pre- and in-service criminal justice personnel seeking a career-enhancing education; (2) those interested in teaching or research in the profession or higher education; and (3) those interested in preparing for a doctoral degree. The degree program may be tailored to meet the needs of individual students. This program is a 36-semester credit hour (SCH) degree. In addition to general courses, there are specialized courses for those interested in law enforcement, corrections or professional field activity and research. A large number of electives are available from political science graduate courses for those interested in general public administration or political science perspectives. Graduate level electives are also available from other disciplines with the prior approval of the Graduate Coordinator. All of our graduate course offerings are web-based. Graduate programs in particular cater to the needs of the working professional, allowing 24-

hour access, advanced topics and projects, and peer networking with others working in the field.

### **Alpine Program Coordinator**

Dr. Oguzhan Basibuyuk

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432.837.8166

### **RGC Program Coordinator**

Dr. Martin Urbina

[murbina@sulross.edu](mailto:murbina@sulross.edu)

830.703.4838

### **Degree Plan:**

## **CRIMINAL JUSTICE**

### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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[Concentration Requirements](#)

[Core Curriculum](#)

### **Criminal Justice Major**

#### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	*ENG 1302 or 2311	3 credit hours
ENG 2312/2315/2322/2323/2327/2328/2331/2341, HIST 2301/2302, MAS 2301, PHIL 1301 or WS 2301	3 credit hours	ANTH 1301, ECO 2301/2302, GEOG 1302/2302, PSY 1302, or SOC 2303	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
CJ 1301	3 credit hours	MATH 1342	3 credit hours
SRSU 1101	1 credit hour	University Elective	2 credit hours
<b>Total: 16 sch</b>		<b>Total: 17 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
ASTR 1303/1304, BIOL 1311/1313, CHEM 1311/1312, GEOL 1303/1304/1305, NRM 1301/2303/2305, PHY 1301/1302 + Lab	4 credit hours	ASTR 1303/1304, BIOL 1311/1313, CHEM 1311/1312, GEOL 1303/1304/1305, NRM 1301/2303/2305, PHY 1301/1302 + Lab	4 credit hours
COMM 1310/1311/1320, ENG 2312/2315/2322/2323/2331/2341, THEA 2304 or 2336	3 credit hours	COMM 1310/1311/1320, ENG 2312/2315/2322/2323/2331/2341, THEA 2304 or 2336	3 credit hours
CJ 2323	3 credit hours	ART 1301, FA 1302, 1315, IT 2304, MUS 1303, 1308, or THEA 1310	3 credit hours
MATH 1314	3 credit hours	CJ/CRIM 3312	3 credit hours
University Elective	3 credit hours	University Elective	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
Additional Science course + Lab	4 credit hours	CJ/CRIM 3302	3 credit hours
CJ/CRIM 3340	3 credit hours	CJ Concentration Area Course	3 credit hours
CJ/CRIM 3341	3 credit hours	CJ Concentration Area Course	3 credit hours
CJ Concentration Area Course	3 credit hours	CJ Concentration Area Course	3 credit hours
CJ Major Elective	3 credit hours	CJ Major Elective	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
CJ/CRIM 4330	3 credit hours	CJ/CRIM 4309	3 credit hours
CJ/CRIM 4304	3 credit hours	CJ/CRIM 4368	3 credit hours
CJ Concentration Area Course	3 credit hours	CJ Concentration Area Course	3 credit hours
CJ Major Elective	3 credit hours	CJ Major Elective	3 credit hours
<b>Total: 12 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Criminal Justice: 120**

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## **B.S., HOMELAND SECURITY**

### **Overview:**

The **Bachelor of Science with a major in Homeland Security** is a specialized degree focusing on aspects of homeland security ranging from government restructuring through disaster preparedness, terrorism, and crisis management. It qualifies graduates for employment in many public service professions and opportunities currently exist for men and women in law enforcement, courts, and corrections agencies at the federal, state, and local levels of government. Many of our undergraduate course offerings are now web-based.

The **Master of Science degree with a major in Homeland Security** serves the needs of students who are (1) pre- and in-service criminal justice personnel seeking a career-enhancing education; (2) those interested in teaching or research in the profession or higher education; and (3) those seeking positions in government service in the many agencies under the Homeland Security umbrella. The degree program may be tailored to meet the needs of individual students. This program is a 36-semester credit hours SCH non-thesis degree. A specialized set of courses has been designed to give the student a well-rounded education in all areas of Homeland Security including crisis management, terrorism, weapons of mass destruction, and immigration issues. A large number of electives are also available from political science graduate courses for those interested in general public administration or political science perspectives. Graduate level electives are also available from other disciplines with the prior approval of the Graduate Coordinator.

### **Degree Plan:**

## **HOMELAND SECURITY**

### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## Homeland Security Major Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	*ENG 1302 or 2311	3 credit hours
ENG 2312/2315/2322/2323/2327/2328/2331/2341, HIST 2301/2302, MAS 2301, PHIL 1301 or WS 2301	3 credit hours	ANTH 1301, ECO 2301/2302, GEOG 1302/2302, PSY 1302, or SOC 2303	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
MATH 1342	3 credit hours	CJ 1302	3 credit hours
SRSU 1101	1 credit hour	University Elective	2 credit hours
<b>Total: 16 sch</b>		<b>Total: 17 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
ASTR 1303/1304, BIOL 1311/1313, CHEM 1311/1312, GEOL 1303/1304/1305, NRM 1301/2303/2305, PHY 1301/1302 + Lab	4 credit hours	ASTR 1303/1304, BIOL 1311/1313, CHEM 1311/1312, GEOL 1303/1304/1305, NRM 1301/2303/2305, PHY 1301/1302 + Lab	4 credit hours
COMM 1310/1311/1320, ENG 2312/2315/2322/2323/2331/2341, THEA 2304 or 2336	3 credit hours	COMM 1310/1311/1320, ENG 2312/2315/2322/2323/2331/2341, THEA 2304 or 2336	3 credit hours
ART 1301, FA 1302, 1315, IT 2304, MUS 1303, 1308, or THEA 1310	3 credit hours	MATH 1314	3 credit hours
CJ 2360	3 credit hours	HS Concentration Area	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
Science Course + Lab	4 credit hours	CJ 3320	3 credit hours
CJ Elective	3 credit hours	CJ 4331	3 credit hours
CJ/CRIM 3341	3 credit hours	CJ Elective	3 credit hours
HS Concentration Area Course	3 credit hours	HS Concentration Area Course	3 credit hours
HS Concentration Area Course	3 credit hours	HS Concentration Area Course	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
CJ 4318	3 credit hours	CJ 4309	3 credit hours
HS Concentration Area Course	3 credit hours	HS Concentration Area Course	3 credit hours
HS Concentration Area Course	3 credit hours	HS Concentration Area Course	3 credit hours
CJ Elective	3 credit hours	CJ Elective	3 credit hours
Total: 12 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Science in Criminal Justice: 120**

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## **B.S., KINESIOLOGY AND HUMAN PERFORMANCE**

### Overview:

Kinesiology and Human Performance at Sul Ross State University provides professional training with a broad application. Through research, quality teaching, and service, it prepares a diverse student population and community for several professional careers in health, fitness, recreation and sports.

The **Bachelor of Science with a major in Kinesiology and Human Performance** offers three concentrations and a teacher certification track:

- Athletic Training Concentration
- Pre-Professional Concentration
- Sport and Recreation Management Concentration
- All-Level Physical Education Teacher Certification

The Pre-Professional Concentration is designed for students interested in applying for admission to Physical Therapy School and therefore requires several courses (prerequisites) for the pre-physical therapy student to consider taking as part of their chosen degree plan. Recommended courses for pre-physical therapy students may include: Anatomy/Physiology, Biology, Chemistry, Mathematics, Physics and Statistics. Information and specific prerequisite course work for each physical therapy school can be obtained from your adviser. Students are should also contact the physical therapy school of choice for the most up-to-date information on entrance requirements to ensure that the courses taken at Sul Ross State University will be accepted.

**A minor is offered in Kinesiology and Human Performance.** It requires 18 semester credit hours of Kinesiology or Physical Education course work including at least 6 hours of upper division (3000 or 4000 level) courses.

**A minor is offered in Recreation Administration.** The 18-hour minor provides students with knowledge in recreation and leisure services, outdoor skills, leadership and specific training in recreation administration. Students will learn to be effective partners in their community to support others of all ages in the pursuit of active, healthy lifestyles. Required courses include KES 2311, KES 2330, KES 3316, KES 3318, KES 3321 and KES 3330.



## Degree Plan:

### KINESIOLOGY & HUMAN PERFORMANCE

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

#### **Kinesiology & Human Performance Major Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	*ENG 1302 or 2311	3 credit hours
BIOL 1306, 1307, CHEM 1311, 1312, PHY 1301, 1302 + Lab	4 credit hours	BIOL 1306, 1307, CHEM 1311, 1312, PHY 1301, 1302 + Lab	4 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
PE 1301	3 credit hours	PE 1306	3 credit hours
KES Activity Class	1 credit hour	COMM 1311	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 15 sch</b>		<b>Total: 16 sch</b>	

#### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
ENG 2311	3 credit hours	MATH 1342	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
BIOL 1306, 1307, CHEM 1311, 1312, PHY 1301, 1302, BIOL 2304 + Lab	4 credit hours	COMM 1310, 1320, ENG 2312, 2315, 2322, 2323, 2331, 2341, THEA 2304, 2336	3 credit hours
KES 2303	3 credit hours	PSY 1302	3 credit hours
ART 1310, FA 1302, 1315, THEA 1310	3 credit hours	KES 2311	3 credit hours
		KES Activity Class	1 credit hour
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
ENG 2312, 2315, 2322, 2323, 2327, 2328, 2331, 2341, HIST 2301, 2302, MAS 2301, PHIL 1301 or WS 2301	3 credit hours	KES 3305	3 credit hours
PE 3305	3 credit hours	PE 3307	3 credit hours
Concentration Area Course	3 credit hours	Concentration Area Course	3 credit hours
Concentration Area Course	3 credit hours	Concentration Area Course	3 credit hours
Concentration Area Course	3 credit hours	Concentration Area Course	3 credit hours
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
Concentration Area Course	3 credit hours	KES 4360	3 credit hours
Concentration Area Course	3 credit hours	Concentration Area Course	3 credit hours
Concentration Area Course	3 credit hours	University Elective	3 credit hours
Concentration Area Course	3 credit hours	University Elective	3 credit hours
Concentration Area Course	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Science in Kinesiology & Human Performance: 120**

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## **B.S., EDUCATION**

### Overview:

Created as a state normal college, the primary purpose of Sul Ross State University originally was preparing teachers for the public schools of west Texas. While the university now serves a wider purpose, the Department of Education actively seeks to prepare students for service in the educational world of the 21st century and offers a Bachelor of Science in Interdisciplinary Studies in Alpine.

**The continuing mission of the Department of Education is to prepare students to be**

- Successful educational leaders;
- Practicing scholars; and
- Lifelong learners.

Students interested in becoming a certified teacher in Texas public schools should contact the Department of Education early in their SRSU career. While most coursework is taken in various departments of the University, it is crucial that the appropriate courses be chosen, sequenced, and completed so students may transition to the Teacher Education Program with minimal disruption. Each teaching area has requirements for certification that must be met.

Students apply for admission to the Teacher Education Program in the middle of the junior year when you have 75 or more semester credit hours of approved college coursework.

Specific information regarding Teacher Education requirements may be found in the current University catalog.

## **Concentration Requirements**

### **Early Childhood–6**

Students on the EC-6 Generalist concentration will take additional classes in content subjects (English, Mathematics, Social Sciences, Sciences, Fine Arts/Health/PE), Reading, and Pedagogy to provide the in-depth knowledge needed to be a successful elementary and early middle school teacher.

### **English, Language Arts & Reading 4-8**

Students on the ELA/R 4-8 concentration are prepared to teach these three subjects at the upper-elementary and middle school grade levels. Students will take additional English composition, literature, and structure courses from the Languages & Literature Department, in conjunction with Reading & Pedagogy courses from the Education Department, to provide the in-depth knowledge needed to be a successful middle school teacher.

### **Mathematics 4-8**

Students on the Math 4-8 concentration are prepared to teach mathematics at the upper-elementary and middle school grade levels. Students will take additional upper level Math courses from the Computer Science and Math Department, in conjunction with Education & Pedagogy courses from the Education Department, to provide the in-depth knowledge needed to be a successful middle school teacher.

### **Science 4-8**

Students on the Science 4-8 concentration are prepared to teach science classes at the upper-elementary and middle school grade levels. Students will take additional Sciences courses in biology, chemistry, and geology from the Biology-Geology & Physical Sciences Department, in conjunction with Education & Pedagogy courses from the Education Department. Together, these courses provide the in-depth knowledge needed to be a successful middle school teacher.

### **Social Studies 4-8**

Students on the Social Studies concentration are prepared to teach social studies classes at the upper-elementary and middle school grade levels. Students will take additional Social Science courses in Geography, History, Political Science, and Sociology the Behavioral & Social Science Department, plus coursework in Education & Pedagogy from the Education Department. Together, the courses in this concentration provide students the in-depth knowledge needed to be a successful middle school teacher.

### **Degree Plans:**

#### **[EARLY CHILDHOOD – 6<sup>TH</sup> GRADE](#)**

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## Teaching, Early Childhood – 6<sup>th</sup> Grade Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	BIOL 1311 + Lab	4 credit hours
FA 1315	3 credit hours	PS 2305	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311	3 credit hours	ENG 2341, 2331, or HIST 2301	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
BIOL 1313 + Lab	4 credit hours	HIST 2302	3 credit hours
PS 2306	3 credit hours	ED 3312	3 credit hours
GEOG 1302 or ED 2303	3 credit hours	ED 3307	3 credit hours
ENG 2341, 2323, 2331	3 credit hours	ENG 3311	3 credit hours
HIST 2309	3 credit hours	ED 3308	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH 2310	3 credit hours	MATH 2311	3 credit hours
BIOL 2406	4 credit hours	ED 4315	3 credit hours
GEOG 3302	3 credit hours	ED 4306	3 credit hours
PE 2303	3 credit hours	ED 3302	3 credit hours
ED 4308	3 credit hours	ED 4314	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ENG 3312	3 credit hours	ED 3300	3 credit hours
ENG 3314	3 credit hours	ED 3301	3 credit hours
ED 4313	3 credit hours	ED 4601	6 credit hours
ED 3303	3 credit hours		
ED 4322	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Teaching, EC-6: 121**

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## 4<sup>TH</sup> – 8<sup>TH</sup> ENGLISH, LANGUAGE ARTS, AND READING

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)

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### **Teaching, Grades 4-8 English, Language Arts, and Reading Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	BIOL 1311 + Lab	4 credit hours
FA 1315	3 credit hours	PS 2305	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311	3 credit hours	ENG 2328	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
BIOL 1313 + Lab	4 credit hours	HIST 2302	3 credit hours
PS 2306	3 credit hours	ENG 3311	3 credit hours
GEOG 1302 or ED 2303	3 credit hours	ENG 3312	3 credit hours
ENG 2341	3 credit hours	ED 3307	3 credit hours
HIST 2309	3 credit hours	ED 3308	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
MATH 2310	3 credit hours	MATH 2311	3 credit hours
BIOL 2406	4 credit hours	ED 4315	3 credit hours
GEOG 3302	3 credit hours	ED 4306	3 credit hours
ENG 3xxx or 4xxx	3 credit hours	ED 3302	3 credit hours
ED 4308	3 credit hours	ED 4314	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ENG 3xxx or 4xxx	3 credit hours	ED 3300	3 credit hours
ED 3314	3 credit hours	ED 3301	3 credit hours
ED 4313	3 credit hours	ED 4601	6 credit hours
ED 3303	3 credit hours		
ED 4322	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Science in Teaching, English, Language Arts, and Reading: 121**

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## 4<sup>TH</sup> – 8<sup>TH</sup> MATHEMATICS

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## Teaching, Grades 4-8 Mathematics

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	BIOL 1311 + Lab	4 credit hours
FA 1315	3 credit hours	PS 2305	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311	3 credit hours	MATH 1316	3 credit hours
SRSU 1101	1 credit hour		
Total: 16 sch		Total: 16 sch	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
BIOL 1313 + Lab	4 credit hours	ENG 2341, 2331 or HIST 2301	3 credit hours
PS 2306	3 credit hours	HIST 2302	3 credit hours
GEOG 1302 or ED 2303	3 credit hours	ED 3307	3 credit hours
ENG 2341, 2323, or ENG 2331	3 credit hours	MATH 3301	3 credit hours
MATH 2318	3 credit hours	MATH 3340	3 credit hours
Total: 16 sch		Total: 15 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH 2310	3 credit hours	MATH 2311	3 credit hours
BIOL 2406	4 credit hours	MATH 2414	4 credit hours
MATH 2413	3 credit hours	ED 4306	3 credit hours
MATH 3320	3 credit hours	ED 3302	3 credit hours
		ED 4314	3 credit hours
Total: 14 sch		Total: 16 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
MATH 3350	3 credit hours	ED 3300	3 credit hours
GEOG 3302	3 credit hours	ED 3301	3 credit hours
HIST 2309	3 credit hours	ED 4601	6 credit hours
ED 3303	3 credit hours		
ED 4322	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Science in Teaching, Grade 4-8 Mathematics: 120**

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## 4<sup>TH</sup> – 8<sup>TH</sup> SCIENCE

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## Teaching, Grades 4-8 Science Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
BIOL 1311 + Lab	4 credit hours	BIOL 1313 + Lab	4 credit hours
MATH 1314	3 credit hours	PS 2305	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311	3 credit hours	ENG 2341, 2331, or HIST 2301	3 credit hours
SRSU 1101	1 credit hour		
Total: 17 sch		Total: 16 sch	



## Sophomore Year

Semester III, Fall		Semester IV, Spring	
FA 1315	3 credit hours	BIOL 2405	4 credit hours
PS 2306	3 credit hours	CHEM 1311	3 credit hours
GEOG 1302 or ED 2303	3 credit hours	ENG 3312	3 credit hours
ENG 2341, 2323, or ENG 2331	3 credit hours	HIST 2302	3 credit hours
HIST 2309	3 credit hours	ED 4306	3 credit hours
Total: 15 sch		Total: 16 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH 2310	3 credit hours	MATH 2311	3 credit hours
BIOL 2301 + Lab	4 credit hours	BIO 2302 + Lab	4 credit hours
BIOL 2406	4 credit hours	BIOL 4406	4 credit hours
GEOG 3302	3 credit hours	ED 3302	3 credit hours
GEOL 3301	3 credit hours	ED 4314	3 credit hours
Total: 17 sch		Total: 17 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
BIOL 3301	3 credit hours	ED 3300	3 credit hours
BIOL 3306	3 credit hours	ED 3301	3 credit hours
ED 3307	3 credit hours	ED 4601	6 credit hours
ED 3303	3 credit hours		
ED 4322	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Science in Teaching, Grades 4-8 Science: 125**

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## 4<sup>TH</sup> – 8<sup>TH</sup> SOCIAL STUDIES

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

**Teaching, Grades 4-8 Social Studies  
Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MATH 1314	3 credit hours	BIOL 1311 + Lab	4 credit hours
FA 1315	3 credit hours	PS 2305	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311	3 credit hours	ENG 2341, 2331, or HIST 2301	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

**Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
BIOL 1313 + Lab	4 credit hours	ECO 2301	3 credit hours
PS 2306	3 credit hours	SOC 2303	3 credit hours
GEOG 1302 or ED 2303	3 credit hours	ED 3307	3 credit hours
ENG 2341, 2323, or ENG 2331	3 credit hours	ENG 3312	3 credit hours
HIST 2309	3 credit hours	HIST 3311	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

**Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
MATH 2310	3 credit hours	MATH 2311	3 credit hours
BIOL 2406	4 credit hours	PS/POLS 3xxx or 4xxx	3 credit hours
GEOG 3302	3 credit hours	ED 4306	3 credit hours
HIST 3300	3 credit hours	ED 3302	3 credit hours
PS 3308	3 credit hours	ED 4314	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

**Senior Year**

<b>Semester VII, Fall</b>		<b>Semester VIII, Spring</b>	
HIST 3xxx or 4xxx	3 credit hours	ED 3300	3 credit hours
ED 3314	3 credit hours	ED 3301	3 credit hours
POLS 3304	3 credit hours	ED 4601	6 credit hours
ED 3303	3 credit hours		
ED 4322	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Science in Teaching, Grades 4-8 Social Studies: 121**

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## COLLEGE OF LITERATURE, ARTS AND SOCIAL SCIENCES

In the College of Literature, Arts, and Social Sciences (**LASS**), we inspire novel and mold-breaking ways of viewing the world.

Including teaching, as well as creative and research activities in the fine arts, history, social sciences, language, literature, and culture, the College works to help understand the world and shape it for the better. This is done by offering thoughtful, diverse, and challenging opportunities to understand and reshape human activities analytically, imaginatively, and creatively.

We promote growth of knowledge and leadership ability as we facilitate the learning of skills relevant to one's development as a person as well as a wide range of employers and industries.

What role do you seek in the world you will learn to create at Sul Ross State University?

**Laura Payne, Ph.D.**

**Dean of the College of Literature, Arts, and Social Sciences  
Sul Ross State University**

### **What do you want to study at Sul Ross?**

We offer 11 majors and 13 minors in the arts, humanities, and social sciences at the undergraduate level. At the graduate level we offer 6 majors in those areas of study.

### **Department of Behavioral and Social Sciences (BASS)**

Undergraduate Majors:

- [History](#)
- [Political Science](#)
- [Psychology](#)
- [Social Science](#)

Undergraduate Minors:

- [Anthropology](#)
- [History](#)
- [Mexican-American Studies](#)
- [Political Science](#)
- [Psychology](#)
- [Women's & Gender Studies](#)
- [Cultural and Diversity Studies](#) – Tentative Fall 2021

Graduate Majors:

- [History](#)
- [Political Science](#)
- [Public Administration](#)

### **Department of Fine Arts and Communication (FA&C)**

Undergraduate Majors:

- [Art](#)
- [Communication](#)
- [Music](#)
- [Theatre](#)

Undergraduate Minors:

- [Art](#)
- [Communication](#)
- Journalism
- [Music](#)
- [Professional Design and Communication](#) – Interdisciplinary with the Department of Languages and Literature
- [Theatre](#)

Graduate Major:

- [Art](#)

## **Department of Languages and Literature (L&L)**

Undergraduate Majors:

- [English](#)
- [Spanish](#)

Undergraduate Minors:

- [English](#)
- [Professional Design and Communication](#) – Interdisciplinary with the Department of Fine Arts and Communication
- [Spanish](#)
- [Cultural and Diversity Studies](#)—Tentative Fall 2021

Graduate Major:

- [English](#)

## **Additional Undergraduate Major in the College:**

[General Studies](#)

## **Additional Graduate Major in the College:**

[Liberal Arts](#) – Directed by the Dean of Graduate Studies

## **B.A., HISTORY**

### **Overview:**

A degree in History from Sul Ross teaches critical thinking, problem-solving, research, and effective oral, verbal, and written communication skills. Using academic research, education, and outreach, historians help preserve the past to remind us how we got to where we are today and to enhance our understanding of the world around us. Students choose from a variety of subjects to study such as culture, race, identity, gender and sexuality, labor and class, environmentalism, health and medicine, science and technology, migration and immigration, borderland studies, military history, geography, economics, comparative World histories, and much more. Through coursework and research, students gain an understanding of diverse cultures as well as how issues change over time and separate or unify societies. They also learn how to preserve and interpret history in the 21st century.

The **Bachelor of Arts in History** can be used as the basis for a teaching certification in history, a means for entering graduate studies in the field of history, or a pre-professional degree to enter studies in law, medicine, and many other professions.

Students at SRSU can also pursue a **minor in History**. A minor in History requires students to complete 18 semester credit hours of history courses, including six semester credit hours of advanced coursework.

**Teacher certification** in History is also available.

SRSU offers a **Master of Arts degree in History**, which offers education beyond formal classroom learning. Students on the way to becoming professional historians are encouraged to join and engage in professional organizations and present their research within and outside of the department. Graduate students have the option to either pursue a thesis or non-thesis option upon completion of their MA. Teaching assistantships are available for graduate students. Contact the department chair listed under the Faculty tab for more information.

#### **Alpine Program Coordinator**

Dr. Mark Saka

[msaka@sulross.edu](mailto:msaka@sulross.edu)

432.837.8304

#### **RGC Program Coordinator**

Dr. Chris Davis

[cbd15tp@sulross.edu](mailto:cbd15tp@sulross.edu)

830.703.4845

#### **Degree Plans:**

#### [HISTORY](#)

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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Visit [Academic Advising to learn more.](#)

[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## History Major (Minor Required) Freshman Year

Semester I, Fall		Semester II, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
Component Area Core Req	3 credit hours	MATH 1314	3 credit hours
Foreign Language BA Req	3-4 credit hours	Foreign Language BA Req	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16-17 sch</b>		<b>Total: 16 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
Social & Behavioral Core Req	3 credit hours	Life & Physical Science Core	3 credit hours
Life & Physical Science Core	3 credit hours	Component Area Core Req	3 credit hours
Creative Arts Core Req	3 credit hours	L, P, & C Core Req	3 credit hours
Literature BA Req	3 credit hours	HIST/HST 3305	3 credit hours
HIST/HST 3311	3 credit hours	Minor Coursework	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
HIST/HST 3309	3 credit hours	HIST/HST 3310	3 credit hours
HIST/HST 3313	4 credit hours	HIST/HST 3000 or 4000	3 credit hours
HIST/HST 3000 or 4000	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Elective	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
HIST/HST 4317 when topic is Am Hist	3 credit hours	HIST/HST 4315	3 credit hours
HIST/HST 4320	3 credit hours	HIST/HST 3000 or 4000	3 credit hours
HIST/HST 3000 or 4000	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Total Credit Hours Required for Bachelor of Arts in History: 120**

## HISTORY SECONDARY CERTIFICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.** Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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## History with Education Certification Minor Freshman Year

Semester I, Fall		Semester II, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
Foreign Language BA Req	4 credit hours	MATH 1314	3 credit hours
PS 2305	3 credit hours	Foreign Language BA Req	4 credit hours
SRSU 1101	1 credit hour		
<b>Total: 14 sch</b>		<b>Total: 13 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 2301	3 credit hours	HIST 2302	3 credit hours
HIST 2309	3 credit hours	Literature BA Req	3 credit hours
PS 2306	3 credit hours	Life & Physical Science Core	3 credit hours
Life & Physical Science Core	3 credit hours	Component Area Core Req	3 credit hours
Creative Arts Core Req	3 credit hours	General Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	
Summer I		Summer II	
HIST 3000+ Elective (Group I)	3 credit hours	General Elective	3 credit hours
<b>Total: 3 sch</b>		<b>Total: 3 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
HIST 3310	3 credit hours	HIST 3311	3 credit hours
HIST 3000+ Elective (Group I)	3 credit hours	HIST 3000+ Elective (Group I)	3 credit hours
Component Area Core Req	3 credit hours	L, P, & C Core Req	3 credit hours
Social & Behavioral Core	3 credit hours	ED 3302	3 credit hours
General Elective	3 credit hours	ED 4314	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	



## Senior Year

Semester VII, Fall		Semester VIII, Spring	
HIST 3000+ Elective (Group I)	3 credit hours	ED 3300	3 credit hours
HIST 3000+ Elective (Group I)	3 credit hours	ED 4322	3 credit hours
ED 3301	3 credit hours	ED 4605	6 credit hours
ED 3303	3 credit hours		
General Elective	3 credit hours		
Total: 15 sch		Total: 12 sch	

## Total Credit Hours Required for Bachelor of Arts: 120

### Summary:

-42 Core credits accounted for  
-12 Bachelor of Arts hours accounted for  
-30 History Major hours account for  
15 sch History Required courses  
15 sch Advanced History electives  
-24 minor hours accounted for  
-12 sch General Electives

TOTAL HOURS: 120

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## [B.A., POLITICAL SCIENCE](#)

### Overview:

Everyone has political opinions, but not everyone understands government and how it works. The political science program at Sul Ross State University is designed to prepare students for a wide variety of careers, including those in politics, public service, law, education, and the non-profit sector. Through the program, students explore different political systems, institutions, and theories as they seek answers to some of the big questions of government and politics including the role of government, what powers the central government should have, the size of government, and the role of government in promoting equality.

The **Bachelor of Arts in Political Science** equips students with the tools needed to lead at the local, state, or federal level. Students establish a network of support by becoming a part of University-led and national organizations that will continue to provide benefits in future careers. Students have opportunities to conduct research, to present on relevant topics, and to acquire first-hand knowledge about government through internship experiences. Throughout the program, students learn to engage with social and political problems, including those dealing with global equity and equality and to use critical thinking to develop logical solutions.

The [Master of Arts degree in Political Science](#) is designed to serve the needs of students who are interested in teaching and research at the college level, who are preparing for political or administrative careers in public or governmental service, or who are preparing for careers in secondary education. Course work in political science must be supported by a minimum of 9 to 18 semester credit hours of graduate course work in a related discipline.

## Minor in Political Science

Political science is also offered as a minor field of study. It requires 18 semester credit hours of political science courses and at least six semester credit hours must be in advanced coursework. PS 2305 Federal Government and PS 2306 State Government (general education requirements) may count toward the 18 required semester credit hours.

## Degree Plans:

### POLITICAL SCIENCE

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Concentration Requirements](#)

[Core Curriculum](#)

## Political Science Major (Minor Required) Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Math	3 credit hours	Literature	3 credit hours
Lang, Phil, Culture	3 credit hours	Core Science Course + Lab	4 credit hours
General Core Component Area	3 credit hours	Core Social & Behavioral Sciences	3 credit hours
SRSU 1101	1 credit hour		
Total: 16 sch		Total: 16 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
Science Core	3 credit hours	Creative Arts	3 credit hours
General Core Component Area	3 credit hours	PS 2306	3 credit hours
PS 2305	3 credit hours	Foreign Language	3 credit hours
PSY 2307	3 credit hours	Minor Coursework	3 credit hours
Foreign Language	3 credit hours	PS Class	3 credit hours
Total: 16 sch		Total: 16 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
Social Research	3 credit hours	PS 3303 or 3307	3 credit hours
PS 4312 Internship	4 credit hours	PS 3305 or 3302	3 credit hours
PS 4312 or POLS 3000+	3 credit hours	Elective 3xxx/4xxx	3 credit hours
Minor Coursework	3 credit hours	Elective 3xxx/4xxx	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PS 3308	3 credit hours	Minor Coursework	3 credit hours
PS 4302	3 credit hours	PS 4308 Capstone	3 credit hours
Minor Coursework	3 credit hours	Elective	3 credit hours
Elective 3000+	3 credit hours	Elective	3 credit hours
Elective	3 credit hours		
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Arts in Political Science: 120**

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## **B.A., PSYCHOLOGY**

### Overview:

The psychology program is designed to align students to a deeper sense of self-awareness, untangling your inner self from the outer world. The mind as part of your inner world, and your behavior as measured in your outer world, are sites of exploration that move toward increased order and complexity, with hope and goodwill, thriving towards originality, wholeness, and integration. We seek to provide you with a life-changing, transformative education.

The undergraduate program in psychology is designed to meet the needs of individuals interested in the liberal arts fields, a career in a human services profession or graduate study in psychology or social work.

Psychology is offered as a minor field of study at Sul Ross State University. Students must complete 18 semester credit hours of psychology courses, including six semester credit hours of advanced coursework.

A limited number of graduate courses in psychology are available to support such graduate majors as public administration, education, business administration, or history.

### Alpine Program Coordinator

Dr. Bibiana Gutierrez

[bmg15th@sulross.edu](mailto:bmg15th@sulross.edu)

432.386.3223

## RGC Program Coordinator

Dr. Wesley Wynne

[wwynne@sulross.edu](mailto:wwynne@sulross.edu)

830.279.3044

### Degree Plans:

## PSYCHOLOGY

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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[Certification Requirements](#)

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### Psychology Major (Minor Required)

#### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302 or ENG 2311	3 credit hours
MATH 1342	3 credit hours	Life & Physical Sciences	3 credit hours
Life & Physical Sciences	3 credit hours	Lang, Phil, Culture	3 credit hours
Creative Arts	3 credit hours	HIST 1302	4 credit hours
HIST 1301	3 credit hours	PS 2305	3 credit hours
Total: 15 sch		Total: 15 sch	

#### Sophomore Year

Semester III, Fall		Semester IV, Spring	
PS 2306	3 credit hours	PSY 3314 or PSCH 3320	3 credit hours
Component Area Option	3 credit hours	Component Area Option	3 credit hours
Foreign Language	3 credit hours	Foreign Language	3 credit hours
PSY 1302 or equivalent	3 credit hours	PSY/PSCH 3305	3 credit hours
Social & Behavioral Sciences	3 credit hours	PSY/PSCH 3311	3 credit hours
Total: 15 sch		Total: 15 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
ENG/ENGL 3312	3 credit hours	PSY/PSCH 3301, 3302 or PSY 3313	3 credit hours
PSY/PSCH 3315	4 credit hours	PSY/PSCH 3303, PSY 4318, or PSY 3316	3 credit hours
PSY/PSCH 3304	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PSY/PSCH 3309, PSY 4306, PS 4316, or PSCH 4325	3 credit hours	PSY/PSCH 4330	3 credit hours
Major Elective (2000, 3000, or 4000 level)	3 credit hours	Major Elective (2000, 3000, or 4000 level)	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	General Elective	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

## Total Credit Hours Required for Bachelor of Arts in Psychology: 120

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## B.A., SOCIAL SCIENCE

### Overview:

The study of social science is the study of society and human relationship. It includes topics such as history, psychology, sociology, culture, geography, anthropology, archeology, economics, communications, and political science. The unifying principle is a desire to understand the world we live in from a variety of different perspectives and experiences. Sociology students have an innate curiosity about human behavior, including how societies develop over the course of history and current societal constructs of today. In the sociology program, students explore the furthest reaches of human existence—from ancient civilizations to the depths of outer space—to expand your knowledge and understanding of human behavior.

The Bachelor of Arts with a Social Sciences major at Sul Ross is an interdisciplinary program that provides a well-rounded education to those seeking to expand their worldview. Social sciences involve the study of groundbreaking ideas, critical perspectives, and research methods across academic disciplines and scholarly traditions, from the arts and literature, to history and philosophy, to government and economics, to the natural sciences. A multidisciplinary, social education provides the reading, reasoning, and communication skills to thrive in a broad range of careers. Above all, the Social Sciences program is a gateway to pursue life-long learning.

The social studies certification program is recommended for those students intending to teach social studies subjects in Texas secondary schools. This general certification provides a broad social studies background qualifying one to teach in seven fields rather than only two fields while providing enough electives to permit the development of particular depth in one or two of these fields.

#### Minor in Sociology

How are societies formed? Where did we come from? How did we get here? Where are we going? If you enjoy thinking about questions related to the origins and evolution of human society, Sociology is the minor for you! The Sociology minor program exists to complement major programs as diverse as geology, computer science, psychology, history, political science, education, kinesiology, and criminal justice.

#### Alpine Program Coordinator

Dr. Mark Saka

[msaka@sulross.edu](mailto:msaka@sulross.edu)

432.837.8304

#### RGC Program Coordinator

Dr. Chris Davis

[cbd15tp@sulross.edu](mailto:cbd15tp@sulross.edu)

830.703.4845

#### Degree Plans:

### [SOCIAL SCIENCE](#)

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## Social Sciences Major Freshman Year

Semester I, Fall		Semester II, Spring	
ENG/ENGL 1301	3 credit hours	ENG/ENGL 1302	3 credit hours
MATH 1314	3 credit hours	Life & Physical Sciences	3 credit hours
Life & Physical Sciences	3 credit hours	Creative Arts	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Social & Behavioral Sciences	3 credit hours	Language, Philosophy and Culture	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
COMM 1310 or 1311	3 credit hours	Foreign Language	3-4 credit hours
Foreign Language	3-4 credit hours	Literature BA Req	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
ECO 2301	3 credit hours	Core Component Area Option II	3 credit hours
HST/HIST 3309	3 credit hours	ECO 2302	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
GEOG/GGR 4304	3 credit hours	Advanced World History	3 credit hours
GEOG/GGR 3301	3 credit hours	GEOG/GGR 4301	3 credit hours
HST/HIST 3311	3 credit hours	PS/POLS 3302	3 credit hours
Advanced American History	3 credit hours	PS/POLS 3304	3 credit hours
Adv Anthropology, Economics, Psychology or Sociology	3 credit hours	Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
Advanced World History	3 credit hours	Advanced American History	3 credit hours
Adv Anthropology, Economics, Psychology or Sociology	3 credit hours	PS/POLS 4302	3 credit hours
PS/POLS 3307	3 credit hours	Elective	3 credit hours
PS/POLS 3308	3 credit hours	Elective	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Total Credit Hours Required for Bachelor of Arts in Social Science: 120**

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## SOCIAL SCIENCE SECONDARY CERTIFICATION

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

### **Social Sciences Major Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG/ENGL 1301	3 credit hours	ENG/ENGL 1302	3 credit hours
MATH 1314	3 credit hours	Life & Physical Sciences	3 credit hours
Life & Physical Sciences	3 credit hours	Creative Arts	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Social & Behavioral Sciences	3 credit hours	Language, Philosophy and Culture	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
COMM 1310 or 1311	3 credit hours	Foreign Language	3-4 credit hours
Foreign Language	3-4 credit hours	Literature BA Req	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
ECO 2301	3 credit hours	Core Component Area Option II	3 credit hours
HST/HIST 3309	3 credit hours	ECO 2302	3 credit hours
<b>Total: 15-16 sch</b>		<b>Total: 15-16 sch</b>	

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
GEOG/GGR 4304	3 credit hours	Advanced World History	3 credit hours
GEOG/GGR 3301	3 credit hours	GEOG/GGR 4301	3 credit hours
HST/HIST 2302	3 credit hours	PS/POLS 3302	3 credit hours
ED 3300	3 credit hours	PS/POLS 3304	3 credit hours
Adv Anthropology, Economics, Psychology or Sociology	3 credit hours	ED 3302	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	



## Senior Year

Semester VII, Fall		Semester VIII, Spring	
Advanced World History	3 credit hours	ED 4603 or 4605	3 credit hours
Adv Anthropology, Economics, Psychology or Sociology	3 credit hours	PS/POLS 4302	3 credit hours
PS/POLS 3307	3 credit hours	ED 4322	3 credit hours
PS/POLS 3308	3 credit hours	ED 3301	3 credit hours
ED 4314	3 credit hours	ED 3303	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Arts in Social Science: 120**

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## [B.F.A., ART](#)

### Overview:

The **Bachelor of Fine Arts in Art** is a professional degree which provides students with a solid foundation in artistic design principles which grounded in the history of art. A broad base of foundational core art courses prepares students for upper-level concentration courses and provides opportunities to develop and expand mastery of technical and creative artistic expression. We offer academic programs specializing in ceramics, painting (including both oil and watercolor), sculpture and art history as well as post-baccalaureate certification in Art Education. For those considering a career as a professional artist, many opportunities for developing skill and creativity exist at Sul Ross.

Choose one of four tracks including:

- Studio Art
- Digital Art
- Art History
- Art Education with certification

Specializations in Studio Art are Ceramics, Painting, Drawing, Printmaking, Mixed media, and Sculpture.

Areas of specialization in the Digital Art track are Illustration, Animation, and Graphic Design.

Art History majors will take independent studies in art history under 3301, 4301, 4302 with proposal and 4303 capstone project.

Art Education Majors will take 6 SCH in ART 3303 (Art theory) and ART 3309 (Crafts) and blocks 1 and 4 in the education certification program as part of their area of specialization.

The diversity of the core art classes guarantees students develop professional standards in all four areas of art: two-dimensional painting, drawing, and surface design, three-dimensional work such as sculpture and ceramics, digital art and surveys of art history. Students learn to write, discuss their work professionally, and prepare professional portfolios to prepare for a career in the art field or to apply for graduate school.

## Minor in Art

Students must consult with an Art Program advisor to help coordinate the classes to take. An Art minor must complete 18 hours in art with a total of 6 advanced hours.

Required classes include:

- 3 sch Art 1302 (Drawing I), 3 sch Art 1303 (Design I)
- 3 sch of Art History, selected from: Art 1307, 1308, 3308 contemporary Art history, 3307 Women in Art, 3313 European Art & Arch., 3314 Latin American Art, or 3310 special topics in Art History
- 3 sch of a two-dimensional class; either Art 2301 (Painting), Art 2302 (Watercolor), or Art 3302 (Printmaking)
- 3 sch of a three-dimensional class; either Art 2305 (Ceramics) or Art 2309 (Sculpture)
- 3 sch of an advanced studio; Art 3301, 4301 or 3310

## STUDIO ART

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## **B.F.A., in Art – Studio Art Freshman Year**

Semester I, Fall		Semester II, Spring	
ART 1311	3 credit hours	ART 1312	3 credit hours
ART 1316	3 credit hours	ART 1317	3 credit hours
ART 1303	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
SRSU 1101	1 credit hour	Core Class	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
ART 2346	3 credit hours	ART 2347	3credit hours
ART 2316	3 credit hours	ART 2366	3 credit hours
ART 1304	3 credit hours	FA 2302	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Total: 15 sch		Total: 15 sch	
Summer Semester			
ART 3310	3 credit hours		
Core Class	3 credit hours		
Core Class	3 credit hours		
Total: 9 sch			

## Junior Year

Semester V, Fall		Semester VI, Spring	
ART 3301	3 credit hours	ART 4301	3 credit hours
ART 2313	3 credit hours	ART 3304	3 credit hours
ART 2326	3 credit hours	ART 3302	3 credit hours
ART 3308	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours		
Total: 15 sch		Total: 12 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ART 4302	3 credit hours	ART 4303	3 credit hours
FA 3303	3 credit hours	3000+ Elective	3 credit hours
ART 3323	3 credit hours	3000+ Elective	3 credit hours
Core Class	3 credit hours	3000+ Elective	3 credit hours
Total: 12 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Fine Arts in Art: 121**

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## DIGITAL DESIGN

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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**B.F.A., in Art – Digital Design**  
**Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ART 1311	3 credit hours	ART 1312	3 credit hours
ART 1316	3 credit hours	ART 1317	3 credit hours
ART 1303	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
SRSU 1101	1 credit hour	Core Class	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

**Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
ART 2313	3 credit hours	FA 2302	3 credit hours
ART 2316/2366	3 credit hours	ARTC 2331	3 credit hours
ART 1304	3 credit hours	ART 2326/2346	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

<b>Summer Semester</b>			
ART 3310	3 credit hours		
Core Class	3 credit hours		
Core Class	3 credit hours		
<b>Total: 9 sch</b>			

**Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
ART 3301	3 credit hours	ART 4301	3 credit hours
ARTC 3333	3 credit hours	ARTC 3334	3 credit hours
ART 3332	3 credit hours	CSAT 3310	3 credit hours
ART 3308	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

**Senior Year**

<b>Semester VII, Fall</b>		<b>Semester VIII, Spring</b>	
ART 4302	3 credit hours	ART 4303	3 credit hours
ARTC 4303/3340	3 credit hours	3000+ Elective	3 credit hours
FA 3303	3 credit hours	3000+ Elective	3 credit hours
Core Class	3 credit hours	3000+ Elective	3 credit hours
<b>Total: 12 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Fine Arts in Art: 121**

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## ART HISTORY

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Concentration Requirements](#)

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### **B.F.A., in Art – Art History Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ART 1311	3 credit hours	ART 1312	3 credit hours
ART 1316	3 credit hours	ART 1317	3 credit hours
ART 1303	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
SRSU 1101	1 credit hour	Core Class	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
ART 2346	3 credit hours	ART 2347	3 credit hours
ART 2316	3 credit hours	ARTC 2366	3 credit hours
ART 1304	3 credit hours	FA 2302	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

<b>Summer Semester</b>			
ART 3310	3 credit hours		
Core Class	3 credit hours		
Core Class	3 credit hours		
<b>Total: 9 sch</b>			

### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
ART 3301	3 credit hours	ART 4301	3 credit hours
ART 2313	3 credit hours	ART 3304	3 credit hours
ART 2326	3 credit hours	ART 3323	3 credit hours
ART 3308	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ART 4302	3 credit hours	ART 4303	3 credit hours
ART 3302	3 credit hours	3000+ Elective	3 credit hours
FA 3303	3 credit hours	3000+ Elective	3 credit hours
Core Class	3 credit hours	3000+ Elective	3 credit hours
Total: 12 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Fine Arts in Art: 121**

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## ART – ALL LEVEL CERTIFICATION

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## **B.F.A., in Art – All Level Certification**

### **Freshman Year**

Semester I, Fall		Semester II, Spring	
ART 1311	3 credit hours	ART 1312	3 credit hours
ART 1316	3 credit hours	ART 1317	3 credit hours
ART 1303	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours		
SRSU 1101	1 credit hour		
Total: 16 sch		Total: 12 sch	
Summer Semester			
Core Class	3 credit hours		
Core Class	3 credit hours		
Core Class	3 credit hours		
Total: 9 sch			

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
ART 2313	3 credit hours	ART 2347	3credit hours
ART 2346	3 credit hours	ARTC 2366	3 credit hours
ART 2316	3 credit hours	Core Class	3 credit hours
ART 1304	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Total: 15 sch		Total: 15 sch	
Summer Semester			
Core Class	3 credit hours		
Core Class	3 credit hours		
Core Class	3 credit hours		
Total: 9 sch			

## Junior Year

Semester V, Fall		Semester VI, Spring	
ART 4301	3 credit hours	ART 4302	3 credit hours
ART 3303	3 credit hours	ED 3302	3 credit hours
ART 2326	3 credit hours	ART 3302	3 credit hours
ART 3308	3 credit hours	ART 3323	3 credit hours
Total: 12 sch		Total: 12 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ART 4303	3 credit hours	ED 3300	3 credit hours
FA 3303	3 credit hours	ED 4322	3 credit hours
ART 3309	3 credit hours	ED 4601/4602/4603/4605	3 credit hours
ED 4314	3 credit hours		
Total: 12 sch		Total: 9 sch	

**Total Credit Hours Required for Bachelor of Fine Arts in Art: 121**

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## **B.A., COMMUNICATION**

### Overview:

Human communication is inevitable. Relationships, family units, businesses, public presentations, and media forms all rely on and are defined by their unique systems of communication.

Opportunities to study communication range from social science – the academic study of the symbols and codes that societies use to exchange ideas, meaning, and social structure – all the way to applied art; using technology to encode ideas in mass mediums (television, film, radio, print, and internet). Our approach to the study and practice of human communication is rooted in the belief that enhancement of the human condition is a distinctively humanistic act—one in which all mankind should participate.

The **Bachelor of Arts in Communication** features specialized concentrations in Interpersonal Communication, Broadcast Media, or Strategic Communication. The Communication program also prepares those seeking teacher certification (secondary level). Journalism courses may be applied to the non-teacher certification major or minor. The program also offers graduate courses that can serve students pursuing a Master of Arts in Liberal Arts or a Master of Education with a concentration in

## Communication.

In the Interpersonal Communication concentration, students survey areas of human communication study, including Family Communication, Business and Professional Communication, Relational Communication, and Critical Reasoning. Undergraduate research opportunities are encouraged and available to Communication majors in all three concentrations, both through the annual Undergraduate Research Symposium and the McNair Scholars Program. This concentration prepares students for a broad range of careers, including research positions, teaching, media analysis, corporate strategy, and the legal field.

In the Broadcast Media concentration, students learn to use current technology and equipment from instructors with professional, real-world experience in the media industry. With a both national park and the largest state park in the Texas nearby, miles and miles of natural beauty, the Marfa art scene, an international border, and hundreds of years of west Texas history all within an hour's drive of campus, a nearly infinite number of stories are just waiting for filmmakers to tell them. Our small class sizes ensure students are hands-on with cameras, sound recording equipment, editing software, and all the other tools of filmmaking from day one. Come learn how to make fiction and documentary films and radio programming with the same equipment working professionals are using in the field. Internships with local radio stations and local productions are possible, too.

The Strategic Communication concentration prepares students for careers in Public Relations, Media Management, Communication Strategy, Advertising, Sales, Event Planning, and Political Advocacy. Strategic Communication majors take courses in Public Relations, Digital Communication, Writing for Digital Media, and more. Strategic Communication majors are also encouraged to apply for positions with the Skyline, Sul Ross' student-run media organization.

A **minor in Communication** is available and requires 18 semester credit hours of coursework that includes 1311, 2333, 1320; 3304 or 4301 plus additional 6 semester credit hours.

The minor in **Professional Communication and Design** offers a focus on the elements of communication in today's professional world. It is supported by the Department of Fine Arts and Communication and the Department of Languages and Literature. The minor's cross-curricular focus encourages students to focus on elements of communication and design as a particular support to a variety of majors including English with a Writing Concentration, Business, Agriculture, the Sciences, etc. This minor course of study prepares students to enter the professional arena by developing highly valued skill-sets in professional communication through coursework and practical experiences so they become well-versed in and prepared for the digital and rhetorical age. The minor supports various major fields of study by training students with communication-based marketable skills in their chosen areas. The minor encourages students to complete their degrees with a body of work, writing samples, and skill sets, which would prove foundational resume builders for the work place.

The minor in Communication and Design requires 18 semester credit hours that includes six hours of advanced coursework. Academic advisors consider the student's major and aspirations and work with each student to design the appropriate curricular choices.

Students who would like a **Journalism minor** will complete 18 sch in Journalism 2311 and 3301 plus 12 additional semester credit hours with at least 3 advanced, selected from Journalism, IT 2304, or COMM 2308.



## Degree Plans:

### COMMUNICATION: BROADCAST MEDIA

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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#### **Communication: Broadcast Media (Minor Required)**

##### **Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
COMM 1311	3 credit hours	COMM 1325	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
SPAN 1411	4 credit hours	SPAN 1412	4 credit hours
THEA 1310	3 credit hours	COMM 2306/2307	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 17 sch</b>		<b>Total: 16 sch</b>	

##### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
COMM 2307/2306	3 credit hours	COMM 2333	3 credit hours
ENG 2300+	3 credit hours	COMM 2308	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
Math Core Req	3 credit hours	Life & Physical Science + Lab	4 credit hours
THEA 1310*	3 credit hours*	COMM 2335	3 credit hours
<b>Total: 12-15 sch</b>		<b>Total: 16 sch</b>	

\*if not already taken

##### **Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
COMM 3304/4301	3 credit hours	COMM 3308	3 credit hours
GEOG/GGR 3301	3 credit hours	JOUR 2301/ ENG 2304	3 credit hours
HST/HIST 3311	3 credit hours	Minor Coursework	3 credit hours
Social & Behavioral Core	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
COMM 3307	3 credit hours	COMM 3313	3 credit hours
COMM 3311/4307	3 credit hours	COMM 4310	3 credit hours
Minor Coursework 3000+	3 credit hours	Minor Coursework 3000+	3 credit hours
Elective 2000+	3 credit hours	Elective 2000+	3 credit hours
Elective 2000+	3 credit hours		
Total: 15 sch		Total: 13 sch	

**Total Credit Hours Required for Bachelor of Arts in Communication: 120**

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## COMMUNICATION: INTERPERSONAL COMMUNICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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[Certification Requirements](#)

[Concentration Requirements](#)

[Core Curriculum](#)

## **Communication: Interpersonal Communication (Minor Required)**

### **Freshman Year**

Semester I, Fall		Semester II, Spring	
COMM 1311	3 credit hours	COMM 1335	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
SPAN 1411	4 credit hours	SPAN 1412	4 credit hours
THEA 1310	3 credit hours	COMM 1318	3 credit hours
SRSU 1101	1 credit hour		
Total: 17 sch		Total: 16 sch	

### **Sophomore Year**

Semester III, Fall		Semester IV, Spring	
COMM 2333	3 credit hours	COMM 2307/2306	3 credit hours
ENG 2300+	3 credit hours	COMM 2309	3 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
MATH 1314	3 credit hours	Life & Physical Science + Lab	4 credit hours
COMM 2335	3 credit hours*	ENG 2300+	3 credit hours
Total: 15 sch		Total: 16 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
COMM 3304/4301	3 credit hours	COMM 3308	3 credit hours
COMM 3305	3 credit hours	JOUR 2301/ ENG 2304	3 credit hours
Life & Physical Science + Lab	4 credit hours	Minor Coursework	3 credit hours
Social & Behavioral Core	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 16 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
COMM 3313	3 credit hours	COMM 4302	3 credit hours
COMM 4307	3 credit hours	COMM 4310	3 credit hours
Minor Coursework 3000+	3 credit hours	Minor Coursework 3000+	3 credit hours
Elective 2000+	3 credit hours	Elective 2000+	3 credit hours
Total: 13 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Arts in Communication: 120**

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## COMMUNICATION: STRATEGIC COMMUNICATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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## **Communication: Strategic Communication (Minor Required)**

### **Freshman Year**

Semester I, Fall		Semester II, Spring	
COMM 1311	3 credit hours	COMM 1330	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Life & Physical Science + Lab	4 credit hours	THEA 1310	3 credit hours
SRSU 1101	1 credit hour	COMM 2308/2335	3 credit hours
Total: 14 sch		Total: 15 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
COMM 1318/1320	3 credit hours	COMM 2333	3 credit hours
ENG 2300+	3 credit hours	COMM 2306/2307	3 credit hours
Creative Arts Core Req	3 credit hours	L, P, & C Core	3 credit hours
MATH 1314	3 credit hours	PS 2305	3 credit hours
PS 2306	3 credit hours*	Foreign Language Req	4 credit hours
Total: 15 sch		Total: 16 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
COMM 3304	3 credit hours	COMM 2335	3 credit hours
COMM 3320	3 credit hours	JOUR 2301/ ENG 2304	3 credit hours
Life & Physical Science + Lab	4 credit hours	Minor Coursework	3 credit hours
Social & Behavioral Core	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 16 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
COMM 3313	3 credit hours	COMM 3311	3 credit hours
COMM 4307	3 credit hours	COMM 4310	3 credit hours
Minor Coursework 3000+	3 credit hours	Minor Coursework 3000+	3 credit hours
Elective 2000+	3 credit hours	Elective 2000+	2 credit hours
Elective 2000+	3 credit hours	COMM 3305/3331	3 credit hours
Total: 15 sch		Total: 14 sch	

**Total Credit Hours Required for Bachelor of Arts in Communication: 120**

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## **BACHELOR OF MUSIC**

### Overview:

The Music Program of the Department of Fine Arts and Communication is committed to providing high quality education in music. Students in our program develop the skills required to lead in music education and the music industry. The music program offers courses and performance opportunities to all students in a fine arts tradition.

The **Bachelor of Music** degree offers concentrations including:

- vocal performance
- instrumental performance
- vocal education
- instrumental music education
- music business

Our comprehensive musical education serves as the foundation for a career in music. Coupled with the certification requirements of the Education Department, students will qualify to teach music to grades K-12 in public or private schools.

Sul Ross State University also offers the BM degree in Music Business, as well as in pre-music therapy. For those students not interested in certification, the music program can also prepare students for opportunities in the music field such as teaching in the private studio, music business and merchandising, music composition and arranging, and music technology.

Students may also choose **Music as a Minor**. A music minor affords the student the opportunity to develop musical skills and to further explore musical creativity. To complete a Music Minor, students must earn at least 18 semester credit hours in Music coursework. Required courses include FA 1303, Fundamentals of Music OR MUS 1311, Theory I and MUS 1116, Ear Training 1. Students must complete four hours of vocal or instrumental ensembles and no more than four of these count toward the 18 semester credit hours total. Students also take six hours of upper division work, including upper-level applied lessons.

The Department of Fine Arts and Communication also offers select graduate courses in music that can be applied to the Master of Liberal Arts, Master of Education, or as a minor for other masters' programs.

## Degree Plans:

### MUSIC: INSTRUMENTAL MUSIC EDUCATION

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## Music: Instrumental Music Education Freshman Year

Semester I, Fall		Semester II, Spring	
MUS 1308	3 credit hours	MUS 1309	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MUS 1181	1 credit hour	MUS 1181	1 credit hour
MUS 1311	3 credit hours	MUS 1312	3 credit hours
MUS 1116	1 credit hour	MUS 1117	1 credit hour
MUS 1183	1 credit hour	MUS 2123	1 credit hour
SRSU 1101	1 credit hour	MUS 2124	1 credit hour
<b>Total: 13 sch</b>		<b>Total: 13 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Component Area Core Req	3 credit hours	Component Area Core Req	3 credit hours
MUS 1111 (Piano)	1 credit hour	MUS 1111 (Piano)	1 credit hour
MUS 1111	1 credit hour	MUS 1111	1 credit hour
MUS 2311	3 credit hours	MUS 3341	3 credit hours
MUS 2116	1 credit hour	MUS 3141	1 credit hour
MUS 2121	1 credit hour	MUS 2122	1 credit hour
		MUS 1113	1 credit hour
<b>Total: 13 sch</b>		<b>Total: 14 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH Core Req	3 credit hours	Social & Behavioral Core	3 credit hours
Life & Physical Science Core	3 credit hours	Life & Physical Science Core	3 credit hours
MUS 3111	1 credit hour	MUS 3111	1 credit hour
MUS 3113	1 credit hour	MUS 3113	1 credit hour
MUS 3311	3 credit hours	MUS 3313	3 credit hours
MUS 4311	3 credit hours	MUS 4312	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 14 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PS 2305	3 credit hours	PS 2306	3 credit hours
MUS 3111	1 credit hour	MUS 3111	1 credit hour
MUS 3113	1 credit hour	MUS 3113	1 credit hour
MUS 3316	3 credit hours	MUS 4131	1 credit hour
MUS 4215	2 credit hours	MUS 4216	2 credit hours
EDU 3302	3 credit hours	EDU 3301	3 credit hours
EDU 4314	3 credit hours	EDU 3303	3 credit hours
<b>Total: 16 sch</b>		<b>Total: 14 sch</b>	

## Senior Year Cont.

Additional Semester			
EDU 4603	6 credit hours		
EDU 3300	3 credit hours		
<b>Total: 9 sch</b>			

**Total Credit Hours Required for Bachelor of Music: 120**

## Additional Information:

B.M., Instrumental Music Education majors are expected to take applied study on their primary instrument and participate in an instrumental ensemble during every semester in residence. Music and band scholarship eligibility requires ensemble participation.

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## MUSIC: VOCAL MUSIC EDUCATION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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### **Music: Vocal Music Education Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
MUS 1308	3 credit hours	MUS 1309	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MUS 1181	1 credit hour	MUS 1181	1 credit hour
MUS 1311	3 credit hours	MUS 1312	3 credit hours
MUS 1116	1 credit hour	MUS 1117	1 credit hour
SRSU 1101	1 credit hour	MUS 1314	3 credit hours
<b>Total: 12 sch</b>		<b>Total: 14 sch</b>	

### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Component Area Core Req	3 credit hours	Component Area Core Req	3 credit hours
MUS 1111 (Piano)	1 credit hour	MUS 1111 (Piano)	1 credit hour
MUS 1111	1 credit hour	MUS 1111	1 credit hour
MUS 2311	3 credit hours	MUS 3341	3 credit hours
MUS 2116	1 credit hour	MUS 3141	1 credit hour
Instrumental Tech Class	1 credit hour	MUS 1112	1 credit hour
MUS 1112	1 credit hour		
<b>Total: 14 sch</b>		<b>Total: 13 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH Core Req	3 credit hours	Social & Behavioral Core	3 credit hours
Life & Physical Science Core	3 credit hours	Life & Physical Science Core	3 credit hours
MUS 3111	1 credit hour	MUS 3111	1 credit hour
MUS 3112	1 credit hour	MUS 3112	1 credit hour
MUS 3311	3 credit hours	MUS 3313	3 credit hours
MUS 4311	3 credit hours	MUS 4312	3 credit hours
MUS 3111 (Piano)	1 credit hour	MUS 3111 (Piano)	1 credit hour
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PS 2305	3 credit hours	PS 2306	3 credit hours
MUS 3111	1 credit hour	MUS 3111	1 credit hour
MUS 3112	1 credit hour	MUS 3112	1 credit hour
MUS 3316	3 credit hours	MUS 4131	1 credit hour
EDU 3302	3 credit hours	MUS 4216	2 credit hours
EDU 4314	3 credit hours	EDU 3301	3 credit hours
		EDU 3303	3 credit hours
Total: 14 sch		Total: 14 sch	

## Senior Year Cont.

Additional Semester			
EDU 4603	6 credit hours		
EDU 3300	3 credit hours		
Total: 9 sch			

**Total Credit Hours Required for Bachelor of Music: 120**

## Additional Information:

B.M., Vocal Education majors are expected to take applied study in voice and participate in a vocal ensemble during every semester in residence. Music and choir scholarship eligibility requires ensemble participation.

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## [MUSIC: INSTRUMENTAL MUSIC](#)

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Music: Instrumental Music Freshman Year

Semester I, Fall		Semester II, Spring	
MUS 1308	3 credit hours	MUS 1309	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MUS 1181	1 credit hour	MUS 1181	1 credit hour
MUS 1311	3 credit hours	MUS 1312	3 credit hours
MUS 1116	1 credit hour	MUS 1117	1 credit hour
MUS 1211	2 credit hours	MUS 1211	2 credit hours
MUS 1113	1 credit hour	MUS 1113	1 credit hour
SRSU 1101	1 credit hour	MUS 2123	1 credit hour
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Component Area Core Req	3 credit hours	Component Area Core Req	3 credit hours
MUS 1111 (Piano)	1 credit hour	MUS 1111 (Piano)	1 credit hour
MUS 1211	2 credit hours	MUS 1211	2 credit hours
MUS 2311	3 credit hours	MUS 3341	3 credit hours
MUS 2116	1 credit hour	MUS 3141	1 credit hour
MUS 2121	1 credit hour	MUS 2122	1 credit hour
MUS 1113	1 credit hour	MUS 1113	1 credit hour
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH Core Req	3 credit hours	Social & Behavioral Core	3 credit hours
Life & Physical Science Core	3 credit hours	Life & Physical Science Core	3 credit hours
MUS 3211	2 credit hours	MUS 3211	2 credit hours
MUS 3113	1 credit hour	MUS 3113	1 credit hour
MUS 3311/3316	3 credit hours	MUS 3313	3 credit hours
MUS 1183	1 credit hour	MUS 2124	1 credit hour
Elective	3 credit hours	Elective	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 16 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PS 2305	3 credit hours	PS 2306	3 credit hours
MUS 3211	2 credit hours	MUS 3211	2 credit hours
MUS 3113	1 credit hour	MUS 3113	1 credit hour
MUS 4215	2 credit hours	MUS 4131	1 credit hour
MUS 4311	3 credit hours	MUS 4216	2 credit hours
Elective	3 credit hours	MUS 4312	3 credit hours
		Elective	3 credit hours
<b>Total: 14 sch</b>		<b>Total: 15 sch</b>	

## Total Credit Hours Required for Bachelor of Music: 120

### Additional Information:

B.M., Instrumental majors are expected to take applied study on their primary instrument and participate in an instrumental ensemble during every semester in residence. Music and band scholarship eligibility requires ensemble participation.

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### MUSIC: VOCAL MUSIC

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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### **Music: Instrumental Music Freshman Year**

Semester I, Fall		Semester II, Spring	
MUS 1308	3 credit hours	MUS 1309	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MUS 1181	1 credit hour	MUS 1181	1 credit hour
MUS 1311	3 credit hours	MUS 1312	3 credit hours
MUS 1116	1 credit hour	MUS 1117	1 credit hour
MUS 1211	2 credit hours	MUS 1211	2 credit hours
MUS 1112	1 credit hour	MUS 1112	1 credit hour
SRSU 1101	1 credit hour	MUS 1314	3 credit hours
Total: 15 sch		Total: 17 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Component Area Core Req	3 credit hours	Component Area Core Req	3 credit hours
MUS 1111 (Piano)	1 credit hour	MUS 1111 (Piano)	1 credit hour
MUS 1211	2 credit hours	MUS 1211	2 credit hours
MUS 2311	3 credit hours	MUS 3341	3 credit hours
MUS 2116	1 credit hour	MUS 3141	1 credit hour
MUS 1112	1 credit hour	MUS 1112	1 credit hour
<b>Total: 14 sch</b>		<b>Total: 14 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH Core Req	3 credit hours	Social & Behavioral Core	3 credit hours
Life & Physical Science Core	3 credit hours	Life & Physical Science Core	3 credit hours
MUS 3211	2 credit hours	MUS 3211	2 credit hours
MUS 3112	1 credit hour	MUS 3112	1 credit hour
Instrumental Tech Class	3 credit hours	Elective	3 credit hours
MUS 4311	3 credit hours	MUS 4312	3 credit hours
MUS 3111 (Piano)	1 credit hour	MUS 3111 (Piano)	1 credit hour
Elective	2 credit hours		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PS 2305	3 credit hours	PS 2306	3 credit hours
MUS 3211	2 credit hours	MUS 3211	2 credit hours
MUS 3112	1 credit hour	MUS 3112	1 credit hour
MUS 3111 (Piano)	1 credit hour	MUS 3111 (Piano)	1 credit hour
MUS 3311/3316	3 credit hours	MUS 4216	2 credit hours
Elective	3 credit hours	MUS 3313	3 credit hours
		Elective	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 15 sch</b>	

**Total Credit Hours Required for Bachelor of Music: 120**

### Additional Information:

B.M., Vocal majors are expected to take applied study in voice and participate in a vocal ensemble during every semester in residence. Music and choir scholarship eligibility requires ensemble participation.

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## MUSIC: MUSIC BUSINESS

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Music: Music Business Freshman Year

Semester I, Fall		Semester II, Spring	
MUS 1308	3 credit hours	MUS 1309	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
MUS 1181	1 credit hour	MUS 1181	1 credit hour
MUS 1311	3 credit hours	MUS 1312	3 credit hours
MUS 1116	1 credit hour	MUS 1117	1 credit hour
MUS 1111	1 credit hour	MUS 1111	1 credit hour
MUS 1112/1113	1 credit hour	MUS 1112/1113	1 credit hour
SRSU 1183	1 credit hour	MUS 2123	1 credit hour
SRSU 1101	1 credit hour		
<b>Total: 15 sch</b>		<b>Total: 14 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Component Area Core Req	3 credit hours	Component Area Core Req	3 credit hours
MUS 1111 (Piano)	1 credit hour	MUS 1111 (Piano)	1 credit hour
MUS 1111	1 credit hour	MUS 1111	1 credit hour
MUS 2311	3 credit hours	MUS 3341	3 credit hours
MUS 2116	1 credit hour	MUS 3141	1 credit hour
MUS 1112/1113	1 credit hour	MUS 1112/1113	1 credit hour
MUS 2124	1 credit hour		
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
MATH Core Req	3 credit hours	Social & Behavioral Core	3 credit hours
Life & Physical Science Core	3 credit hours	Life & Physical Science Core	3 credit hours
MUS 3211	2 credit hours	MUS 3211	2 credit hours
MUS 3112/3113	1 credit hour	MUS 3112/3113	1 credit hour
ACC 2301	3 credit hours	MUS 3313	3 credit hours
ECO 2302	3 credit hours	GBA 3351	3 credit hours
MUS 3111 (Piano)	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 16 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
PS 2305	3 credit hours	PS 2306	3 credit hours
MUS 3211	2 credit hours	MUS 3211	2 credit hours
MUS 3112/3113	1 credit hour	MUS 3112/3113	1 credit hour
FIN 3340	3 credit hours	MUS 4131	1 credit hour
MUS 4311	3 credit hours	MUS 4216	2 credit hours
MGT 3306	3 credit hours	MUS 4312	3 credit hours
		MKT 3307	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Music: 120**

### Additional Information:

B.M., Music Business majors are expected to take applied study on their primary instrument and participate in an instrumental ensemble during every semester in residence. Music and band or choir scholarship eligibility requires ensemble participation.

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## **B.F.A., THEATRE**

### Overview:

The impulse toward theatre is universal. Wherever human society has developed so has the drive to create, educate, and entertain. Theatre is a way of seeing men and women in action, of observing what they do and why they do it. Because human beings are the subject and the means of expression, theatre is one of the most immediate ways of experiencing what it means to be human. Individuals who explore the world of theatre grow in understanding of cultural diversity, self-knowledge, communications skills, and self-expression. With numerous opportunities for “hands-on” performance and technical experiences, coupled with invaluable classroom academics, the Theatre Program at Sul Ross offers a practical general overview of the performance and technical aspects of theatre.

The **Bachelor of Fine Arts in Theatre** prepares students to pursue professional advanced degrees in acting, directing, playwriting, design, and technical production. In addition, an all-level teacher certification is also available. Students may choose from three degree plans including Acting and Directing, Technical Design and Production, or Film Production.

Graduate hours in Theatre may be used for a Master of Education degree or a Master of Arts in Liberal Arts.

### Minor in Theatre

Students complete 18 semester credit hours of coursework to include six semester credit hours of advanced coursework. No more than six semester credit hours from the following can be used for a minor: Theatre 1101, 1102, 2101, 2102, 2308, 3101, 3102, 3303, 3307, 4101, or 4102.

## Degree Plans:

### THEATRE – ACTING/DIRECTING

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

Academic Advisors provide students with schedule planning and degree checklists, identify academic support structures (tutoring) for at-risk students, help new students transition from other institutions, and assist students in deciding on a major. Academic Advisors also provide students with one-on-one instruction on how to use Lobo Online which is the student's portal to academic and administrative services at Sul Ross State University.

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#### **Theatre – Acting/Directing Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
THEA 1322	3 credit hours	THEA 1352	3 credit hours
THEA 1351	3 credit hours	THEA 2336	3 credit hours
THEA 2310	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

#### **Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
THEA 2311	3 credit hours	THEA 3309	3 credit hours
THEA 2331	3 credit hours	MUS 1111	1 credit hour
THEA 2307	1 credit hour	MUS 1112/2112	1 credit hour
Core Class	1 credit hour	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
		Core Class	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 14 sch</b>	

<b>Summer Semester</b>			
THEA 3303	3 credit hours		
THEA 3307	3 credit hours		
THEA 1120	1 credit hour		
THEA 2120	1 credit hour		
THEA 2112/3112	1 credit hour		
<b>Total: 9 sch</b>			

## Junior Year

Semester V, Fall		Semester VI, Spring	
THEA 3101	1 credit hour	THEA 3312	3 credit hours
THEA 3302	3 credit hours	THEA 3316	3 credit hours
THEA 3317	3 credit hours	THEA 3308	3 credit hours
Core Class	3 credit hours	FA 3308	3 credit hours
Core Class	3 credit hours	THEA 3102	1 credit hour
Core Class	3 credit hours	Core Class	3 credit hours
Total: 16 sch		Total: 16 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
THEA 3311/3321	3 credit hours	THEA 4304	3 credit hours
THEA 3318	2 credit hours	THEA 4308	3 credit hours
THEA 4306	3 credit hours	THEA 4307	3 credit hours
THEA 4101	1 credit hour		
Total: 10 sch		Total: 9 sch	

**Total Credit Hours Required for Bachelor of Fine Arts in Theatre: 120**

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## THEATRE – THEATRE DESIGN & TECHNOLOGY

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Theatre – Theatre Design & Technology

### Freshman Year

Semester I, Fall		Semester II, Spring	
THEA 2310	3 credit hours	CSAT 2307	3 credit hours
THEA 2331	3 credit hours	THEA 1372	3 credit hours
THEA 1351	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
SRSU 1101	1 credit hour		
Total: 16 sch		Total: 15 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
THEA 2311	3 credit hours	THEA 3309	3 credit hours
THEA 1120	1 credit hour	THEA 3314	3 credit hours
ART 1316	3 credit hours	THEA 1121	1 credit hour
IT 2307	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours		
Total: 16 sch		Total: 13 sch	
Summer Semester			
THEA 3303	3 credit hours		
THEA 3307	3 credit hours		
THEA 2120	1 credit hour		
THEA 2121	1 credit hour		
THEA 3101	1 credit hour		
THEA 3102	1 credit hour		
Total: 10 sch			

## Junior Year

Semester V, Fall		Semester VI, Spring	
THEA 3302	1 credit hour	THEA 3312	3 credit hours
THEA 4101	3 credit hours	THEA 3316	3 credit hours
THEA 3304	3 credit hours	FA 3303	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
<b>Total: 13 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
THEA 3311/3321	3 credit hours	THEA 4304	3 credit hours
THEA 3318	2 credit hours	THEA 4308	3 credit hours
THEA 4102	1 credit hour	THEA 4307	3 credit hours
THEA 3313	3 credit hours		
Core Class	3 credit hours		
<b>Total: 13 sch</b>		<b>Total: 9 sch</b>	

**Total Credit Hours Required for Bachelor of Fine Arts in Theatre: 120**

## THEATRE – FILM PRODUCTION

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Theatre – Film Production Freshman Year

Semester I, Fall		Semester II, Spring	
COMM 2306	3 credit hours	THEA 1352	3 credit hours
THEA 1322	3 credit hours	COMM 1325	3 credit hours
THEA 1351	3 credit hours	CSAT 2307	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
THEA 2331	3 credit hours	COMM 3313	3 credit hours
THEA 2307	3 credit hours	THEA 3312	3 credit hours
ART 1316	3 credit hours	COMM 3307	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
<b>Total: 16sch</b>		<b>Total: 15 sch</b>	

Summer Semester			
THEA 3303	3 credit hours		
COMM 3330/3331 (Choose 1)	3 credit hours		
COMM 3332/3333 (Choose 1)	3 credit hours		
THEA 1120	1 credit hour		
<b>Total: 10 sch</b>			

## Junior Year

Semester V, Fall		Semester VI, Spring	
THEA 3101	1 credit hour	FA 3303	3 credit hours
THEA 3317	3 credit hours	THEA 3322	3 credit hours
THEA 3321	3 credit hours	THEA 3309	3 credit hours
COMM 3308	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours	Core Class	3 credit hours
Core Class	3 credit hours		
<b>Total: 16 sch</b>		<b>Total: 15 sch</b>	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
THEA 3318	3 credit hours	THEA 4304	3 credit hours
THEA 4306	3 credit hours	THEA 4308	3 credit hours
THEA 3319	3 credit hours	THEA 4307	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

**Total Credit Hours Required for Bachelor of Fine Arts in Theatre: 120**

## B.A., ENGLISH

### Overview:

The **Bachelor of Arts with a major in English** provides accessible and life-changing education through literature, theory, and writing courses that establish a foundation and then deepen nuanced knowledge of and abilities in English studies. The English degree is offered as either a residential or an online degree and is known for its small class sizes and pedagogical approaches. The program offers degree-tracks in teaching certification, non-certification literature studies, and non-certification writing concentration studies. In addition to its dynamic coursework, the program offers various professional and academic development opportunities for Sul Ross State University students and their communities at all campuses, including research mentorships, development of marketable skills through participation in Student Publications, membership in academic communities such as Sigma Tau Delta, and the development of academic and professional excellence through community-building via campus summits, research conferences, and capstone activities. Our undergraduate students are taught by faculty with doctorates encompassing research interests from cultural studies to literatures of the border, from creative writing to environmental studies. Housed on campuses in the beautiful Chihuahua Desert and middle Rio Grande landscapes, the program, whether residential or online, offers an academic community that encourages knowledge-building and service-learning in the pursuit of a degree that represents varied and excellent learning achievements.

The Bachelor of Arts degree with an English major can be used as the basis for teaching certification in language arts; as a means for entering graduate studies in the fields of language and literature; or as a pre-professional degree to enter studies in law, medicine and other professions.

Students seeking a **minor in English** complete at least 18 credit hours of English courses, excluding 1000 level courses. Students must also take a minimum of 12 semester credit hours of advanced SRSU English coursework.

A **Master of Arts in English** meets the needs of students who wish to teach at the high school and community college levels; students who wish to pursue a Ph.D. in English; and students who desire to specialize in creative writing. A variety of options is available to assist students in achieving their objectives including a thesis option in literature or writing, a coursework option, and the major/minor program option.

The MA in English is an online curriculum designed to provide advanced study in literature, creative writing, theory, cultural studies, and pedagogies, among others. Our students prepare to enter teaching fields in dual-credit environments and community colleges, as well as to transition to doctoral programs. Enjoying both asynchronous and synchronous online classroom environments, our graduates leave the program with an advanced scholarly understanding of the nuances of literature, writing, and theory. We prepare students throughout the program to tailor studies toward their ultimate post-graduate goals, be it in teaching, writing, and/or continued scholarship via assistantship opportunities, research and publication mentorships, and writing, editing, presentation, and publication experiences. Our program brings the beauty and creative inspiration found in the Chihuahua Desert and middle Rio Grande landscapes to our online student environment.

## Alpine Program Coordinator

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## RGC Program Coordinator

Dr. Sally Roche

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## Degree Plans:

### ENGLISH

#### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## English Major (Minor Required)

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Core Component Area	3 credit hours	MATH 1314	3 credit hours
Foreign Language BA Req	4 credit hours	Foreign Language BA Req	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 17 sch</b>		<b>Total: 16 sch</b>	

### Sophomore Year

Semester III, Fall		Semester IV, Spring	
Social and Behavioral Science	3 credit hours	Life and Physical Science	3 credit hours
Life and Physical Science	3 credit hours	Core Component Area	3 credit hours
Creative Arts	3 credit hours	L, P, & C	3 credit hours
Literature BA Req	3 credit hours	ENG/ENGL 2323	3 credit hours
ENG/ENGL 2322	3 credit hours	Minor Coursework	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

## Junior Year

Semester V, Fall		Semester VI, Spring	
ENG/ENGL 3303	3 credit hours	ENG/ENGL 4308	3 credit hours
ENG/ENGL 3316	3 credit hours	ENG/ENGL 3315, 3317, or 4320	3 credit hours
ENG 3312	3 credit hours	ENG/ENGL 4302 or 4307	3 credit hours
ENG 4306	3 credit hours	Elective	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ENG/ENGL 3304 or 4305	3 credit hours	ENG/ENGL 4300	3 credit hours
ENG/ENGL 3xxx or 4xxx	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Arts in English: 120**

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## ENGLISH – WRITING CONCENTRATION

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## English Major with Writing Concentration (Minor Required)

### Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 2311	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311 Core Req	3 credit hours	MATH 1314	3 credit hours
Foreign Language BA Req	4 credit hours	Foreign Language BA Req	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
SRSU 1101	1 credit hour		
Total: 17 sch		Total: 16 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
Social and Behavioral Science	3 credit hours	Life and Physical Science	3 credit hours
Life and Physical Science	3 credit hours	Creative Arts	3 credit hours
Core Component Area Option	3 credit hours	L, P, & C	3 credit hours
Literature BA Req (see major) ENG 2322 or 2323	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
ENG/ENGL 3301	3 credit hours	ENG/ENGL 3303	3 credit hours
ENG/ENGL 3316	3 credit hours	ENG/ENGL 3320	3 credit hours
ENG 3312	3 credit hours	ENG/ENGL 4313	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
ENG 3321	3 credit hours	ENG/ENGL 4300	3 credit hours
ENG/ENGL Advanced Elective	3 credit hours	ENG 3322	3 credit hours
ENG/ENGL 4306 or 4308	3 credit hours	Minor Coursework	3 credit hours
Minor Coursework	3 credit hours	Elective	3 credit hours
Elective	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Arts in English, Writing Concentration: 120**

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## ENGLISH SECONDARY CERTIFICATION

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**English Major with Education Certification  
Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
ENG 1301	3 credit hours	ENG 2311	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
COMM 1311 Core Req	3 credit hours	MATH 1314	3 credit hours
Foreign Language BA Req	4 credit hours	Foreign Language BA Req	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 17 sch</b>		<b>Total: 16 sch</b>	

**Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
Social and Behavioral Science	3 credit hours	Life and Physical Science	3 credit hours
Life and Physical Science	3 credit hours	Creative Arts	3 credit hours
Core Component Area Option (ENG 2322)	3 credit hours	L, P, & C (ENG 2323)	3 credit hours
Literature BA Req (see major)	3 credit hours	ENG/ENGL 4302 or 4307	3 credit hours
ENG/ENGL 3311	3 credit hours	EDU 4314	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
EDU 4313	3 credit hours	ENG/ENGL 4308	3 credit hours
ENG/ENGL 3316	3 credit hours	ENG/ENGL 3315, 3317, or 4320	3 credit hours
ENG 3312	3 credit hours	EDU 3302 (Block 1)	3 credit hours
ENG 4306	3 credit hours	ENG 4313	3 credit hours
ENG 4315	3 credit hours	EDU 4314 (Block 1)	3 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Senior Year**

<b>Semester VII, Fall</b>		<b>Semester VIII, Spring</b>	
EDU 3303 (Block 2)	3 credit hours	EDU 3301	3 credit hours
EDU 4322 (Block 2)	3 credit hours	EDU 4605	6 credit hours
ENG/ENGL 4300	3 credit hours	EDU 3300 (Block 3)	3 credit hours
ENG/EMGL 3303	3 credit hours		
ENG/ENGL 3304 or 4305	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 12 sch</b>	

**Total Credit Hours Required for Bachelor of Arts in English with Teacher Certification: 120**

## **B.A., SPANISH**

### **Overview:**

The SRSU Spanish program offers students the opportunity to become proficient in Spanish by developing critical and thinking skills through the study of literature, linguistics, curriculum, pedagogy, cognition, and cultures. The program offers degree tracts in teaching certification and non-certification in the study of the Spanish language, the development of communicative proficiency, and the analysis of a wide range of literary and cultural production throughout the Spanish-speaking world. Our literature specialists and experienced language teachers will focus on advancing and refining the students' written and oral communication skills, helping students gain a broad understanding of the diversity of Hispanic cultures, and helping them learn to analyze, critically engage, and interpret such texts as written works, cultural products, artifacts, and others.

The Spanish coursework is offered either as a residential setting or online. In both platforms, the students can count on receiving individual attention from professors, and on working in a friendly and supportive environment.

Given the geographic locations of the SRSU campuses, from the Chihuahua Desert through the Middle Rio Grande corridor, students can actively practice Spanish and improve their fluency and mutually benefit individuals in those communities. The active, vibrant Spanish club affords students activities and travel opportunities to learn from each other and celebrate Hispanic holidays with music, art, and culture.

Of her professors, Mirna Borunda writes, “. . . they helped me to better prepare not only how to teach my students to speak and write in Spanish, but they also taught me the importance of culture.”

The Bachelor of Arts in Spanish provides professional training for students interested in becoming certified to teach; students interested in preparing for careers in interpretation and translation; and students desiring to enter other career fields. An endorsement in English-as-a-Second-Language can be earned in addition to the degree in Spanish. The demand for college graduates with bilingual skills is steadily increasing. In addition, a strong background in Spanish can complement any field of study. Students may choose either teacher certification or non-certification.

For a minor in Spanish, students must complete SPAN 2311 and 2312; SPAN 3315 or 3316; and nine additional semester credit hours of Spanish courses, including six advanced hours.

### **Alpine Program Coordinators**

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## Degree Plans:

### SPANISH

**All undergraduates must be advised in order to register/enroll in courses in a future term.**

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## Spanish Major (Minor Certification) Freshman Year

Semester I, Fall		Semester II, Spring	
ENG 1301	3 credit hours	ENG 1302	3 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
Core Component Area	3 credit hours	MATH 1314	3 credit hours
SPAN 1411	4 credit hours	SPAN 1412	4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
SRSU 1101	1 credit hour		
Total: 18 sch		Total: 16 sch	

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
Social and Behavioral Science	3 credit hours	Life and Physical Science	3 credit hours
Life and Physical Science	3 credit hours	Core Component Area	3 credit hours
Creative Arts	3 credit hours	L, P, & C	3 credit hours
Literature BA Req	3 credit hours	SPAN 2312	3 credit hours
SPAN 2311	3 credit hours	Minor Coursework	3 credit hours
Total: 15 sch		Total: 15 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
SPAN/SPN 3301	3 credit hours	SPAN/SPN 3302	3 credit hours
SPAN/SPN 3308	3 credit hours	SPAN/SPN 3311	3 credit hours
SPAN/SPN 3310	3 credit hours	SPAN/SPN 3314	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 15 sch		Total: 15 sch	



## Senior Year

Semester VII, Fall		Semester VIII, Spring	
SPAN/SPN 3316	3 credit hours	SPAN/SPN 4303	3 credit hours
SPAN/SPN 4310	3 credit hours	SPAN/SPN 4311	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Elective	3 credit hours	Minor Coursework	3 credit hours
Elective	3 credit hours	Elective	3 credit hours
Total: 15 sch		Total: 15 sch	

**Total Credit Hours Required for Bachelor of Arts in English with Teacher Certification: 120**

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## SPANISH SECONDARY CERTIFICATION

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## Spanish Major with Education Certification Freshman Year

Semester I, Fall		Semester II, Spring	
SPAN 1411 BA Requirement	4 credit hours	SPAN 1412 BA Requirement	4 credit hours
HIST 1301	3 credit hours	HIST 1302	3 credit hours
ENG 1301	3 credit hours	ENG 1302	3 credit hours
PS 2305	3 credit hours	Creative Arts Core Req	3 credit hours
SRSU 1101	1 credit hour	MATH 1314	3 credit hours
Total: 17 sch		Total: 16 sch	
Summer I			
Social and Behavioral Science	3 credit hours		
Total: 3 sch			

## Sophomore Year

Semester III, Fall		Semester IV, Spring	
SPAN 2311 or SPN 3305	3 credit hours	SPAN 2312	3 credit hours
SPAN 2305	3 credit hours	SPAN 3308	3 credit hours
ED 2303	3 credit hours	ENG 2311 (BA Req)	3 credit hours
ENG 4313	3 credit hours	Life and Physical Science	3 credit hours
PS 2306	3 credit hours	Component Area Core	3 credit hours
Total: 15 sch		Total: 15 sch	
Summer I		Summer II	
Life & Physical Science	3 credit hours	Component Area Core	3 credit hours
Total: 3 sch		Total: 3 sch	

## Junior Year

Semester V, Fall		Semester VI, Spring	
SPAN 3301	3 credit hours	SPAN 3311	3 credit hours
SPAN 3310	3 credit hours	SPAN 3316	3 credit hours
SPAN 3000+ Elective	3 credit hours	ED 3307	3 credit hours
ED 4313	3 credit hours	ED 3302	3 credit hours
MAS 2301 (L, P, & C Core)	3 credit hours	ED 4314	3 credit hours
Total: 15 sch		Total: 15 sch	

## Senior Year

Semester VII, Fall		Semester VIII, Spring	
SPAN 3315	3 credit hours	ED 3300	3 credit hours
SPAN 4310	3 credit hours	ED 4322	3 credit hours
SPAN 4311	3 credit hours	ED 4605	6 credit hours
ED 3301	3 credit hours		
ED 3303	3 credit hours		
Total: 15 sch		Total: 12 sch	

**Total Credit Hours Required for Bachelor of Arts in Spanish with Certification: 126**

### Summary:

-42 Core credits accounted for  
-12 Bachelor of Arts hours accounted for  
-48 Spanish Major hours accounted for

- 12 sch other subject Required courses
- 33 sch Required Spanish
- 3 sch Spanish Advanced Elective

-24 minor hours accounted for  
TOTAL HOURS: 120-124

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## **B.A., GENERAL STUDIES**

### **Overview:**

The **Bachelor of Arts in General Studies** is a flexible and individualized program of study designed for students who wish to pursue an education according to their specific needs. It is a flexible degree program open to full or part-time students. Students work with the General Studies adviser to set up the degree plan they will ultimately complete. This degree reflects a major in General Studies with no minor. General Studies is an interdisciplinary major that encourages students to delve into the problems and prospects of society. Students may select courses from the entire university; suiting studies to the student's own interests and needs without regard to required courses. Students must fulfill the regular requirements for a Bachelor of Arts degree. The General Studies common core gives all students fundamental knowledge of skills necessary to competently express themselves, think creatively, solve problems, and understand the nature and function of people and the environment. This basic competency establishes a comprehensive context for understanding the methodologies and problems of studying issues. The degree encourages the development of graduates in terms of excellence, personal connection, diversity and inclusiveness, leadership and service, growth and exploration, ethics and integrity, and effective communication. General Studies graduate Charles Brooks writes, "The General Studies program is a wonderful opportunity to take classes in different fields. It gives you an opportunity to test the waters in different career paths. The reason I say that is because once I changed to general studies I started taking criminal justice classes and also kinesiology classes. I also got the opportunity to take a foreign language. It was definitely a great field to be a part of."

### **Degree Plan:**

## **GENERAL STUDIES**

### **All undergraduates must be advised in order to register/enroll in courses in a future term.**

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**General Studies Major (No Minor)**  
**Freshman Year**

<b>Semester I, Fall</b>		<b>Semester II, Spring</b>	
HIST 1301	3 credit hours	HIST 1302	3 credit hours
ENG 1301	3 credit hours	ENG 1302/2311	3 credit hours
Component Area Core	3 credit hours	MATH Core Req	3 credit hours
Foreign Language BA Req	3-4 credit hours	Foreign Language BA Req	3-4 credit hours
PS 2305	3 credit hours	PS 2306	3 credit hours
SRSU 1101	1 credit hour		
<b>Total: 16-17 sch</b>		<b>Total: 15-16 sch</b>	

**Sophomore Year**

<b>Semester III, Fall</b>		<b>Semester IV, Spring</b>	
Social and Behavioral Science	3 credit hours	Life and Physical Science	3 credit hours
Life and Physical Science	3 credit hours	Component Area Core	4 credit hours
Creative Arts Core Req	3 credit hours	L, P, & C	3 credit hours
Literature BA Req	3 credit hours	General Studies SCH (lower division)	6 credit hours
General Studies SCH (lower division)	3 credit hours		
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Junior Year**

<b>Semester V, Fall</b>		<b>Semester VI, Spring</b>	
COMM 3304	3 credit hours	SPAN/SPN 3302	3 credit hours
General Studies SCH (lower division)	12 credit hours	General Studies SCH (lower division)	6 credit hours
		General Studies SCH (upper division)	6 credit hours
<b>Total: 15 sch</b>		<b>Total: 15 sch</b>	

**Senior Year**

<b>Semester VII, Fall</b>		<b>Semester VIII, Spring</b>	
General Studies SCH (upper division)	15 credit hours	General Studies SCH (upper division)	9 credit hours
		General Elective Courses	4 credit hours
		GS 4100	1 credit hour
<b>Total: 15 sch</b>		<b>Total: 14 sch</b>	

**Total Credit Hours Required for Bachelor of Arts in General Studies: 120**

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## ADDITIONAL MINORS

### Anthropology Minor

Anthropology is offered as a minor field of study at Sul Ross State University. Students must complete 18 semester credit hours of anthropology courses, including six semester credit hours of advanced coursework for an anthropology minor.

### Diversity Studies Minor

The Diversity Studies program broadens students' understanding of the interactions of race, ethnicity, gender, sexuality, social and economic inequality, disability, aging and religion in defining identity and social relationships. This multidisciplinary program focuses on concepts related to power, identity, difference, and the ways in which historical and structural forces have shaped hegemony. Students in Diversity Studies will foster their sense of self identity, voice, and purpose by investigating the history, creative expression, and broad contributions of groups that have been excluded by traditional approaches to higher education. For the individual student, the Diversity Studies minor fosters the development of a self-identity that will prepare students to be broad-minded and benevolent citizens in a multicultural society and a global world.

The Diversity Studies minor is relevant to careers involving diverse populations, including:

- Business
- Industry
- Education
- Social Services
- Social Welfare
- Mental Health
- Medicine and Health Services
- Marketing and Public Relations
- Local, State, and Federal Government
- NGOs
- Research
- Non-Profit Organizations
- Law
- Criminal Justice

“... I decided to pursue Diversity Studies as a minor at Sul Ross State University because I knew that it was going to open up so many doors of unique knowledge that was diverse in and of itself. I learned about all the past, the kind that not very many know about or even want to know about. I became enriched with knowledge and understanding, building more compassion and skills that will manifest itself in a tremendous way as I continue on with my life. Diversity studies lives up to the hype that I made it out to be, it surpassed my expectations and it built me into an educated and tolerant student who will be an ally to those in need. The classes that you take are incredible, the professors that you are in contact with and that you learn from are tremendously talented and great at what they do. Their knowledge goes beyond the capacity that you believe they possess, and I am forever grateful that I was able to discover this whole new world as a student at SRSU. I would recommend the Diversity Studies minor to all who are fortunate enough to come across it as a point of interest.”

-Kimberly Luna, Class of 2020

### Mexican American Studies Minor

¡Sí se puede!

Mexican American Studies is about the Mexican American experience in the United States. Mexican American Studies came out of the 60s and 70s when Mexican Americans, using marches and protests, demanded the establishment of courses about their history and culture and demanded educational and racial equality.

The Mexican American Studies minor provides a broad introduction to the history and culture of the Mexican American community in the United States. It examines critical issues that affect Mexican Americans such as immigration. Benefits of the Mexican American Studies minor include

- A deeper understanding of Mexican American history and culture;
- A unique sightline to the construction of race, ethnicity, and cultural difference;
- A compelling introduction to pressing contemporary debates on immigration, citizenship, and the border;
- An opportunity to strengthen writing, critical thinking, and reading comprehension skills; and
- Significant preparation for future graduate, professional and law school applications.

The minor in Mexican American Studies is designed to meet the needs of students preparing for careers serving Mexican American constituencies, such as public and business administration, marketing, public relations, education, politics, government, minority affairs, as well as careers in which one would work in an international or multicultural environment. The minor is also designed to prepare students for graduate and advanced professional study in programs in which a minority affairs focus would be an asset.

To complete a Mexican-American studies minor, students must earn at least 18 semester credit hours in courses approved for Mexican-American studies credit, including MAS 2301 (Introduction to Mexican American Studies), MAS 3310 (Special Topics), and MAS 4310 (Capstone Course). At least nine semester hours must be at the upper division level.

Students must select their additional classes from a variety of other courses appropriate for the Mexican-American studies minor which are taught regularly or as special topics in a number of departments of Sul Ross. These include, but are not limited to:

Spanish 2301, 2302; Anthropology 1301, 2301; Education 3308, BSL 3328, 3329; English 4301, 4302, 4304; History 3308, 3313; Mexican American Studies 3310, 4309; Political Science 3314, 4304; Psychology 3314, Sociology 3308; Spanish 2304, 3308, 3316.

## **Women's And Gender Studies Minor**

The minor in **Women's and Gender Studies** combines historical, sociological, psychological, political, legal, literary, ethnographic, and aesthetic lenses exposing students to a variety of perspectives and research methods. By completing coursework across multiple disciplines, students will expand their understanding of the role that gender plays in everyday life, and how it affects the lives of women, men, and members of underrepresented gender identities. Courses in the minor emphasize cultural diversity and the varied experiences faced by all gender identities in the United States and throughout the world.

This interdisciplinary minor benefits students in several ways: it provides students with several theoretical and critical frameworks. A minor in Women's and Gender Studies offers students a close examination of the contributions, challenges, needs, and aspirations of women, men, and gender non-conforming individuals. In short, a minor in Women's and Gender Studies furthers students' understanding of gender and society. To complete a Women's and Gender Studies minor, students must earn at least 18 semester credit hours in courses approved for Women's Studies credit and at least nine semester hours of the minor must be at the upper-division level.

The program in Women's Studies is supervised by the Coordinator of Women's and Gender Studies.

The structure of the Women's and Gender Studies Program at Sul Ross State University is designed to maximize opportunities for participation of all communities. A minor in Women's and Gender Studies prepares one for a position in any occupation, including business, government, the non-profit sector, or the professions. It also prepares students for graduate studies in a wide range of fields.

### **Potential Coursework**

BIOL 3305	Women in Science
COMM 3307	Studies in Film
COMM 3311	Gender Communication
CRIM 3311	Women and Crime
ENG 2306	Literature of the Feminist Movements
ENG 4312	Women in Literature
HIST 4321	American Women
HIST 4317	LGBTQ+ History
HIST 4317	Race, Sex, and Power in American History
PS 2307	Women and the Law
PS 3315	Women in Politics
WS 2301	Intro to Women's and Gender Studies
WS 2302	Intro to Masculinities in Gender Studies
WS 3301	Topics in WS
WS 4310	Senior Colloquium in WS

\*Special Topics and/or Readings and Research in various disciplines may be counted towards completion of the minor with approval from advisor(s).



# GRADUATE ACADEMIC REGULATIONS

## ACADEMIC HONESTY

The University expects all students to engage in all academic pursuits in a manner beyond reproach and to maintain complete honesty and integrity in academic experiences both in and out of the classroom. The University may initiate disciplinary proceedings against a student accused of any form of academic dishonesty, including but not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials.

Academic Dishonesty includes:

1. Copying from another student's test paper, laboratory report, other report, or computer files, data listings, and/or programs, or allowing another student to copy from same.
2. Using, during a test, materials not authorized by the person giving the test.
3. Collaborating, without authorization, with another person during an examination or in preparing academic work.
4. Knowingly, and without authorization, using, buying, selling, stealing, transporting, soliciting, copying, or possessing, in whole or in part, the contents of a non-administered test.
5. Substituting for another student; permitting any other person, or otherwise assisting any other person to substitute for oneself or for another student in the taking of an examination or test or the preparation of academic work to be submitted for academic credit.
6. Bribing another person to obtain a non-administered test or information about a non-administered test.
7. Purchasing or otherwise acquiring and submitting as one's own work any research paper or other writing assignment prepared by an individual or firm. This section does not apply to the typing of a rough and/or final version of an assignment by a professional typist.
8. "Plagiarism" means the appropriation and the unacknowledged incorporation of another's work or idea in one's own written work offered for credit.
9. "Collusion" means the unauthorized collaboration with another person in preparing written work offered for credit.
10. "Abuse of research materials" means the mutilation, destruction, concealment, theft, or alteration of materials provided to assist students in the mastery of course materials.
11. "Academic work" means the preparation of an essay, dissertation, thesis, report, problem, assignment, or other project that the student submits as a course requirement or for a grade.
12. "Falsification of Data" means the representation, claim, or use of research, data, statistics, records, files, results, or information that is falsified, fabricated, fraudulently altered, or otherwise misappropriated or misrepresented.

All academic dishonesty cases may be first considered and reviewed by the faculty member. If the faculty member believes that an academic penalty is necessary, he/she may assign a penalty, but must notify the student of his/her right to appeal to the department chair, the College Dean (Alpine) or Associate Provost/Dean (RGC), and eventually to the Executive Vice President and Provost before the imposition of the penalty. At each step in the process, the student shall be entitled to written notice of the offense and/or the administrative decision, an opportunity to respond, and an impartial disposition as to the merits of his/her case. The decision of the Executive Vice President and Provost shall be final.

In the case of flagrant or repeated violations, the Provost may refer the matter to the Dean of Students for further disciplinary action. No disciplinary action shall become effective against the student until the student has received procedural due process except as provided under Interim Disciplinary Action.



## **ACADEMIC FORGIVENESS**

Graduate students who have changed programs and wish to have grades from their initial program removed from the calculation of their current program's grade point average can apply for forgiveness of those grades.

Once students have completed 12 semester credit hours in the new program with a 3.0 grade point average, they can petition for forgiveness of all grades in the initial program. Those grades remain on the student's transcript, but they will not be used in the calculation of the student's GPA, nor can they be used to satisfy any degree requirement in the new program. To petition for forgiveness of all grades from a former program, the student must obtain written approval from (1) the Advisor, (2) the Chair, (3) the Dean of the appropriate College, and (4) the Dean of Graduate Studies.

If the courses in the initial program were taken ten years prior to the current program, they are out-of-date and will not be used in calculating the GPA, so no petition is necessary.

## **ACADEMIC STANDING**

### **General**

Scholastic regulations embody the academic standards of a University. The application of the following regulations is directed toward upholding the standards of SRSU – specifically, to impose the requirement of satisfactory academic progress.

The academic regulations set forth the conditions for Academic Good Standing, Academic Probation, and Academic Dismissal. These regulations are intended to be consistent with the following objectives:

1. To indicate to the student, at an early date and with regularity, that achievement below the standards required for graduation is regarded as unsatisfactory;
2. To give the student who performs poorly a warning which may prompt him or her to seek timely help from instructors, counselors, or other appropriate sources;
3. To provide the student whose record shows that ultimate success in the University is in doubt with a trial period to prove that he/she is able to make reasonable academic progress;
4. To state the standards and the consequent results of inadequate scholastic performance clearly enough that students, parents, faculty, and administrators can know the academic action (if any) which would follow from a particular academic record.

Students' academic records are reviewed each semester.

### **Academic Good Standing**

A grade point average of 3.0 (B) must be maintained for all graduate coursework attempted. In addition, a 3.0 (B) grade point average must be maintained in the major and minor fields considered separately (if there is a minor). A grade of less than "C" will not be recognized for graduate credit. Some Programs may have more stringent requirements. Students should contact their Chair for additional information.

### **Academic/Scholastic Probation and Suspension**

A fully admitted graduate student whose grade point average falls below 3.0 will be placed on probation. Failure to remove any grade point deficiencies by the end of the next term will result in suspension from graduate study.

A probationally admitted graduate student is placed on academic probation in the first term of enrollment. Good standing is achieved only after the student earns 12 semester credit hours with a

GPA of 3.0 or better. If the grade point average falls below 3.0 at any time during this probationary period, the student is suspended from further graduate study.

### **Appeals for Academic Suspension – Reinstatement**

Suspension for grade point deficiency can be appealed by a fully admitted or probationally admitted student, who petitions for reinstatement. Reinstatement, if granted, results in the student's being placed on probationary status and carries the conditions that grade point deficiencies must be removed and all grades earned in subsequent graduate courses be at least a "B." To be reinstated, the student must obtain written approval from (1) the Department Chair, (2) the Dean of the appropriate College, and (3) the Dean of Graduate Studies.

## **ACADEMIC YEAR**

The academic year of the University consists of a long session and a summer session. The long session is divided into the fall semester and the spring semester. Each semester consists of fifteen weeks of classes and one week of final examinations. Within each fall and spring semester are courses taught in the first eight weeks only and the second eight weeks only. The summer session is a compressed semester of approximately 10 – 11 weeks (depending on the Julian calendar) divided into two short sessions, each five to six weeks in length.

## **ADMISSION – GRADUATE STUDIES**

Admission to Graduate Studies is required of all post-baccalaureate students when enrolling in graduate-level courses at Sul Ross State University. Applications for admission are available through [www.applytexas.org](http://www.applytexas.org). Each applicant will be notified in writing of acceptance or rejection for admission. Students may seek admission to Graduate Studies by applying for admission to a master's degree program or by applying for admission as a non-degree student.

### **Admission – Master's Degree**

A student seeking admission for the purpose of pursuing a master's degree must hold a baccalaureate degree from an institution approved by a nationally recognized accrediting agency. Official transcripts reflecting all college work attempted and degree(s) conferred should be on file in the Center for Enrollment Services or the Office of Admissions and Records at least ten days prior to initial registration as a graduate student. Also, the student must demonstrate by prior academic records or scores on the verbal and quantitative portions of aptitude test of the Graduate Record Examination (GRE), or for students in Business Administration, the Graduate Management Admissions Test (GMAT), a competence to pursue advanced study and research. The Graduate Record Examination or the Graduate Management Admissions Test should be taken early to ensure scores are on file in the Center for Enrollment Services at the time of initial registration. If required, the test must be taken prior to the end of the second, long semester (fall or spring) after initial enrollment and arrangements made for the scores to be sent to the Center for Enrollment Services. Otherwise, the student may be denied further registration in the graduate program.

Information concerning registration and testing dates for the GRE and GMAT may be obtained from the Coordinator of Career Services and Testing, Sul Ross State University, Alpine, Texas 79832.

### **Full and Probationary Admission – General**

There are two levels of admission to a master's program, full and probationary. Approval of the major department is required for admission at either level. The following criteria will be used in determining the eligibility for admission to the appropriate level but is not a guarantee of admission. Some Programs of Study have limited capacity and all eligible students may not be accepted.

Applicants must submit all required documents required by their Program of Study. Documentation varies by Program. Reference should be made to the various departmental graduate programs in the Catalog for more information.

Following the departmental review, the University will communicate to the applicant the admission status to be granted.

#### **Full Admission- requirements\***

1. Have a 2.5 GPA on a 4.0 scale on the last 60 hours prior to the issuance of the bachelor's degree and GRE score of at least 850 (verbal and quantitative) or minimum GMAT score of 400, OR
2. Graduate with a bachelor's degree with a minimum of 3.0 overall GPA OR
3. Hold a master's degree from an accredited college or university and has the approval from the department in which the applicant proposes to work.

\*Full admission status does not imply an absence of additional departmental requirements (leveling work not to exceed 12 semester credit hours, higher GRE scores, etc.). Reference should be made to the various departmental graduate programs in the Catalog for more information.

#### **Probationary Admission – requirements\***

1. Probationary status may be granted with the approval of the major academic department with the submission of all transcripts; GRE or GMAT scores; and satisfies at least one of the requirements listed above for full admission OR
2. Probationary status may be granted to any student who has not taken the GRE prior to the start of the semester; the GRE must be taken before the end of the semester.

\*The academic standing of entering probationary students is “probation.” After successful completion of 12 semester credit hours with a GPA of 3.0 or better, the academic standing is updated to “good standing.” Please see the Quality of Graduate Work section of this Catalog for more information. The responsibility for monitoring the probationary student's compliance with all conditions of admission (leveling work not to exceed 12 semester credit hours, minimum grades in specific courses, tests, etc.) rests within the department and college. During the entire probationary period, the student is responsible for maintaining close communications with the major department and, as called upon, with the dean/director of the college.

### **Admission as a non-degree student (citizens of the United States)**

Students who are not pursuing a degree, but who are interested in graduate work for professional or personal reasons may be admitted as non-degree student provided they present the following:

1. Application for admission.
2. An official transcript with a baccalaureate degree posted from an accredited institution.
3. Approval of the department chair in the department where course work will be undertaken.

Students who decide to apply for a change of status to pursue master's degree work must meet the established requirements for admission to a degree program. The change of status must be approved by the chair of the major department and the dean/director of the College or division. Students should be aware that, in transferring from non-degree to degree seeking status, no more than 12 semester hours earned prior to admission to degree seeking status can be used to meet the degree requirements of the program.

The Graduate Record Examination is not required of non-degree students if they have maintained a 3.0 in the first 12 semester hours when they decide to apply for a change of status to that of a master's degree student.

### **Admission – International**

International students must meet the standard requirements for admission. In addition, they must file the following items in the Center for Enrollment Services:

1. Evidence of Financial Responsibility. This may be satisfied by an Affidavit of Support (Immigration Service Form 1-134) or a signed statement from a U.S. citizen or foreign national committing the necessary resources in U.S. dollars for student's expenses.
2. Evidence of English language proficiency as demonstrated by any one of the following:
  - a) A TOEFL score of 520; or
  - b) Twenty-four hours of undergraduate work with a 2.0 average at an accredited U.S. college or university, or 12 graduate hours with a 3.0 average at an accredited U.S. college or university; or
  - c) A bachelor's or master's degree from an accredited U.S. college or university; or
  - d) Prospective students may petition the Director of Records and Registration in writing requesting an individual oral assessment of English proficiency. Applicants granted an interview will be notified of the date, time, and location of the interview. The interview panel must deem the applicant's oral English proficiency adequate to successfully complete the program. The interview panel will file the results of the assessment in the Center for Enrollment Services. The student will be notified of the decision in writing.

In addition to the above requirements, students must submit the following:

1. An application fee of \$50.00 in U.S. Currency (non-refundable).
2. A housing deposit of \$200.00 in U.S. Currency (Alpine campus).
3. Proof of Health Insurance and Immunization.

All requirements for admission must be met at least one month prior to the anticipated date of registration.

### **Admission – Transfer**

Credits earned from other institutions are not automatically transferred to Sul Ross State University.

A request for transfer of earned credits must be made to the major advisor before the end of the first term of enrollment. No requests for transfer of credits will be accepted after the end of the first term

without written approval of the major advisor and the Dean of the College prior to enrollment at another institution. Graduate students will not be permitted to apply toward the master's degree more than twelve semester credits of transfer work, military service credits, non-collegiate educational experiences, undergraduate courses taken for graduate credit, graduate-level independent study courses, or any combination of these. Such courses must be pertinent to the candidate's program of study.

A student may request transfer of a maximum of twelve semester credit hours in a 36-hour nonthesis program, nine semester credit hours in a 30-hour program, or six semester hours in a 30-hour thesis program from an accredited college or university provided the course work has been approved by the student's major advisor and the Dean of the College. Before courses will be approved for transfer, they must meet the following standards:

1. The grade for each course must be at least a "B."
2. The course must be unmistakably designated as graduate credit on the official transcript.
3. The time limit of six years must not have expired at the projected time of graduation
4. The total number of hours taken at Sul Ross State University and any other institution may not exceed 15 semester credit hours in any one semester in the long term or seven semester credit hours in either summer term, and
5. No more than twelve semester credit hours in any combination of transfer work, undergraduate courses taken for graduate credit, and graduate-level independent study courses from regionally accredited institutions may be credited toward the master's degree in a 36-hour program and no more than nine can be used in a 30-hour non-thesis program.

Exceptions to these provisions may be granted by the dean of the academic college in which the degree program is housed upon request of the academic advisor and department chair.

### **The Graduate Record Examination (GRE)**

Students may be required to complete the GRE before admission to graduate study at Sul Ross State University. The GRE may be taken at any of the testing centers in the United States or abroad. The student may contact the Coordinator of Career Services and Testing for an information bulletin and application for the examination. Regardless of where the test is taken, the student should be certain to indicate that scores are to be sent to the Center for Enrollment Services, Box C-2, Sul Ross State University, Alpine, Texas 79832.

If a student's performance on the examinations is unsatisfactory, the advisor may require remedial or leveling work, the advanced test of the Graduate Record Examinations in the major field, a comprehensive written examination, or such other steps as the advisor recommends. The advisor's recommendations are subject to approval by the Dean of the College. Students should check with their program advisors to determine what tests may be required.

### **Readmission**

Former Sul Ross State University students not enrolled during the previous long semester must apply for readmission. If intervening college work has been taken, official transcripts from each university attended must be submitted.

## **APPEALS – STUDENT (GENERAL)**

When an extraordinary circumstance compels a student to request an exception to University Policy or Regulations, the student must petition the Office of Academic Affairs for exception.

1. Request for exceptions must be made within one semester following the end of the semester being appealed.
2. Students may not petition for exceptions after graduating.
3. All procedures are confidential, respecting the privacy of the student.
4. Decisions are final.

## **Grievances Regarding Course Grades or Professional Conduct of Faculty**

**Note:** Student grievances based upon discrimination or exclusion from course activities because of race, color, national origin, religion, sex, age or disability are under the provisions of STUDENT GRIEVANCE PROCEDURES (Student Handbook, the Faculty Handbook, and the Administrative Policy and Procedures Manual).

If a student disputes a course grade which has been reported to the registrar or if a student believes the conduct of an instructor in the instruction and/or administration of a course to be unprofessional, the student should discuss the concern with the instructor of the course. If the student is not satisfied with results of that discussion, the student should make an appointment to discuss the concern with the Chair of the Department. If the concern is not resolved at the department level, the student should meet with the Dean of the College.

If the student is unable to resolve the concern satisfactorily through the discussions, the student may file a formal grievance with the Dean of the College. The student grievance must be filed on the Student Grievance of Grade or Student Grievance of Professional Conduct forms. Any grievance regarding a grade or professional conduct must be filed within one year of receiving the grade or of the questioned professional conduct.

Upon receiving the appropriate form, the Dean of the College will transmit the grievance to the faculty member for response. The response from the faculty member will be transmitted to the department chair for review, comment and recommendation and then to the academic dean who either resolves in favor of the aggrieved student or determines that the faculty member's action complied with university policy. The student may appeal the Dean of Graduate Studies. The student may appeal to the Provost if the student considers the determination of the Graduate Dean to be unsatisfactory.

The student may appeal to the President if the student considers the determination of the Provost to be unsatisfactory.

## **ASSESSMENT OF STUDENT LEARNING OUTCOMES**

To meet the requirements of the Southern Association of Colleges and Schools Commission on Colleges accreditation and to provide for continuing academic program development and evaluation, the university must assess academic programs on the basis of student learning outcomes. To assess such outcomes, students may be required to take additional examinations, participate in surveys, and/or provide samples of their work throughout their academic career.

## **ATTENDANCE REGULATIONS**

### **Students**

All students are expected to regularly and punctually attend classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing and/or financial aid.



Students are responsible for the effect absences have on all forms of evaluating course performance. The student is responsible for arranging the allowed make-up of any missed work.

## **Faculty**

Faculty are required to state, in writing, their expectations regarding class attendance in the syllabus.

Faculty are expected to work with students to allow for completion of classwork and assignments if the student's absence results from his/her required participation in a University-sponsored activity provided that, prior to the absence, the student makes arrangement to complete all missed work.

Students are usually allowed to make up work and/or tests missed because of serious illness, accident, or death in the immediate family. Faculty are required to make accommodations when specified by an ADA Letter, whether the disability is permanent or temporary.

## **CATALOG YEAR**

To earn a Master's degree from Sul Ross State University, a student must complete all requirements for the degree as stated in a particular University Catalog. The student has the choice of (1) graduating under the current catalog, (2) graduating under the catalog in force at the time of first registering as a graduate student at Sul Ross State University, or (3) graduating under the catalog in force for any subsequent year of registration at Sul Ross State University.

Each of these possibilities is subject to the condition that a program leading to the master's degree must be completed within six years from the date of the student's initial enrollment for graduate courses. No graduate credit will be given for courses over six years old.

Although courses over six years old at the time of graduation may not be counted toward the master's degree, certain of these courses may be used to fulfill requirements for teaching certificates and endorsements with the approval of the Director of Teacher Education.

Exceptions to these provisions may be granted by the Dean of the academic college in which the degree program is housed upon request of the academic advisor and department Chair.

## **Changing Catalog Year**

Students will not be allowed to change their Catalog Year for the current term. The current term begins on the first day of classes. Students may change their Catalog Year at any time; however, after the term has begun (the first day of classes), the change of Catalog Year will be made effective for the next available term. All Catalog Year changes must be declared at least one semester prior to the expected graduation term.

## **COMMUNICATION**

Primary communication at SRSU is through assigned email. Every student is given a SRSU email account. All SRSU email can be auto-forwarded to a personal email account. Important information is regularly sent to students via their SRSU email. All students are expected to become familiar with University policies, deadline dates, and information posted in various publications, on our website, and through informational emails sent to student accounts.

Students should refer to this Catalog, LoboOnLine, and the SRSU Homepage for important information regarding registration, graduation application dates, policies/procedures, online payment options, news, and updates from the University community.

## **CONTACT INFORMATION**

Students are responsible for accurately maintaining their demographic contact information via the University's web portal- LoboOnLine. The University considers each student's school/SRSU email address as the official, formal contact point. All official university correspondence will be sent to this address. Students should further maintain their physical addresses as there are periodic occasions when students will be contacted via United States Postal Service. The University will consider all correspondence mailed to a student at their email or physical address currently on file to have been received unless it is returned to the sender.

## **CONTINUOUS ENROLLMENT**

Sul Ross State University requires students to be enrolled in consecutive terms (Fall and Spring semesters, not Summer) until the completion of the Program of Study and the awarding of the credential. Students not enrolled in a consecutive term must apply for readmission and should not expect to use the facilities or access services offered by SRSU when not enrolled.

## **COURSE POLICIES - GENERAL**

### **Class Size**

Classes at SRSU may be as small as eight and seldom larger than 30 students. Small class size is a great advantage for both students and faculty. Each student is heard, and ideas and opinions are explored. Professors get to know students as individuals and the learning environment is enriched.

### **Class Attendance**

Regular class attendance is important to the attainment of the educational objectives of the University. Therefore, students should attend all classes. Attendance includes being punctual for class and ready to engage with the professor and the day's material. The instructor's policy on class attendance will be explained at the beginning of the semester or term. In accordance with the instructor's policy, the instructor has the right to penalize students who are out of compliance with the class attendance policy.

### **Authorized/Excused Absences Statement.**

An absence because of participation in an official University activity is considered to be an authorized/excused absence. While every effort will be made by departments to minimize missed class time of students by careful scheduling of authorized University activities, when a student has to miss a class due to an authorized University activity, it will be the responsibility of the student to notify the instructor of the class in advance. The department responsible for the authorized University activity will also notify instructors through the Student Life Office by providing an excused absence list to the office. Instructors will give students participating in an authorized University activity the opportunity to make up class work, including tests, within a reasonable time and at the convenience of the instructor.

Should an instructor have an attendance policy that allows for the dropping of a student after a certain number of absences, authorized/excuses absences will not be counted towards that number of absences. Any student dropped for excessive absences will receive either an "F" or a "W" depending upon the faculty member's discretion.

**Distance Education (Web-course) Non-Participation Statement.** Policies in effect for on-campus, traditional classroom instruction courses also apply to students enrolled in distance education courses, including Web-based and ITV courses. Non-participation and inactivity may include not logging on to the course, not submitting assignments or participating in other assigned activities as scheduled, not communicating with the instructor by phone or e-mail, and/or not following the



instructor's participation guidelines stated in the syllabus.

**Religious Holy Days Absences (HB 256 78th Legislature).** In accordance with Texas Education Code 51.911, SRSU shall excuse a student from attending classes or other required activities, including examinations for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. "Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code.

### Final Examinations

Examinations are scheduled at the end of each term. Exam dates are listed on the Registrar's Office page. Students are expected to take exams at the scheduled times. A student who is absent from an examination without instructor approval may receive a grade of zero for the final examination which could result in a grade of "F" for the course. In case of illness or other unforeseen circumstances that could prevent a student from taking final examinations at the posted time, the student must contact the instructor and make individual arrangements to reschedule in advance of the exam.

### Grading

At the end of each semester and each summer term final grades are recorded on the student's permanent record by Office of the Registrar.

GRADE	GRADE MEANINGS	QUALITY POINTS
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
	Failure/Never	
FO	Attended	0
	Failure/Stopped	
FX	Attending	0
I	Incomplete	0
CR	Credit	Not Computed
NC	No Credit	0
NG	No Grade	Not Computed
NR	Not Reported	0
P	Pass	Not Computed
PR	Progress	Not Computed
W/WX	Withdrew	Not Computed
WF	Withdrew/Failed	Not Computed
WP	Withdrew/Passing	Not Computed

## **Incomplete Grades**

The grade of **"I"** is given by the instructor upon consultation with the student. The work to be completed and deadline for completion must be communicated to the Registrar in writing. A student may complete any outstanding work such that a permanent grade can be assigned no later than the last regular class day of the immediately succeeding semester in which the course was originally taken. During the timeframe in which work is performed to earn the permanent grade, the **"I"** grade will be calculated in the student's grade point average as an **"F"** (no quality points). If the work is not completed by the deadline, the **"I"** will be converted to a permanent **"F"** on the transcript.

Normally, an incomplete grade will be awarded only for situations such as illness, family emergencies, or unusual circumstances which prevent a student from completing a course in a semester or summer term. Incomplete grades must be removed prior to graduation.

## **Non-Reported Grades**

The grade of **"NR"** is given by the Office of the Registrar when the instructor fails to meet the grade submission deadline. The **"NR"** grade will be calculated in the student's grade point average as an **"F"** (no quality points) until such time as the instructor submits the official grade via the grade change request form.

## **PR Grades**

There are two instances when **"PR"** grades are used in the grading process: Students who complete any developmental education courses, including ED 0300, ENG 0301, MATH 0300, or MATH 0301 or others, in good standing, but who have not earned a letter grade of **"A"**, **"B"** or **"C"** for the course may earn a grade of **"PR"**. The grade of **"PR"** indicates that even though the student has made progress throughout the semester the student is not yet ready to advance to the next course. Criteria for determining "good standing" are all of the following: the student must have attended class regularly, participated in class and class work, and demonstrated an increase in course knowledge. Students who are not in good standing at the end of the semester will earn either a grade of **"D"** or **"F"**.

The grade of **"PR"** (in progress) will be assigned for students in the second semester thesis course, counseling internship courses, or practicum courses. Students working on a thesis, counseling internship, or practicum should be continuously enrolled in the appropriate course. Credit will be given upon completion of the thesis or practicum. A grade of **"PR"** will not be calculated in the student's grade point average.

## **Withdrew Grades**

The grade of **"W"** or **"WX"** is given for courses dropped after the 12th/4th class days through the last day to drop a course with a **"W"** as published in the University's calendar. Students who wait until the published deadline must have complied with the class attendance policy of this catalog. An instructor is not obligated to recommend a **"W"** for a class if excessive absences have occurred. Students will not be permitted to drop a course or withdraw from the University after the published deadline.

### **Failing Grades**

The grades **"F"**, **"FX"**, and **"F0"** are all failing grades. The **"F"** is awarded to students that continue to attend classes throughout the semester yet fail to pass the course. The **"FX"** is awarded to students that fail due to an unofficial withdrawal (student stops attending class without formally dropping or withdrawing). The **"F0"** is awarded to students that never attend class.

## Symbols Associated with Courses and Grades

SYMBOL	PURPOSE	QUALITY POINTS
E	Repeated Course	Not Computed
I	Repeated Course	Highest Grade Computed
#	Developmental Course	Not Computed

### Repeat Policy

Except for courses specifically described, “may be repeated for credit”, only the highest grade received for a repeated course is calculated in the GPA. If the grade is the same when repeated, the most recent grade is calculated. The excluded grade will remain on the record but will be excluded from the GPA calculations. Courses repeated at a transfer institution will be treated in the same manner.

### Grade Point Average

Sul Ross State University utilizes the four-point grading system. The student’s grade point average is determined by dividing the total number of GPA hours into the total number of grade points received. The grade point value for a course is determined by multiplying the number of credit hours by the quality point value for the grade earned. For example, grade points earned for “B” in a three semester credit hour course is 9 (3 credit hours x 3 quality points.) GPA hours are the hours for which a letter grade is earned (A, B, C, D, F), excluding repeated courses and developmental courses.

### Grade Changes

An individual course grade may be changed when the involved faculty member certifies to the Registrar that an error was made in the original grade. The grade change must be approved by the department chair and appropriate academic dean. Grade changes must be submitted before the end of the next long semester after the grade was issued.

### No Grade

Students who do not desire college credit for a course may elect to take the course under the designation “**NG**” (no grade). To take a course under the “**NG**” designation, a student completes the NG Grade Option form and submit to the Center for Enrollment Services during registration or prior to the 12th class day. The no grade option is intended primarily for non-degree students who wish to improve their personal knowledge of a subject without receiving college credit. Students choosing the “**NG**” designation pay the same tuition and fees as students taking the course for credit and consequently are entitled to participate in all class activities and to receive the same student services available to other students.

### Grade Reports

Students can access their grades through Self-Service as soon as they are posted by faculty and officially verified by the Registrar’s Office.

## COURSE NUMBERING SYSTEM

The four-digit numbering system is based on the following criteria:

- The level of the courses is identified by the first digit as follows: freshman, 1; sophomore, 2; junior, 3; senior, 4; and graduate, 5-7.
- The semester credit hour is identified by the second digit.
- University and/or departmental codes are identified by the last two digits.

Course titles in the academic programs section of this Catalog are followed by two numbers in parentheses.

- The first number refers to the number of lecture contact hours per week;
- The second refers to the number of laboratory contact hours per week. For example, (3- 2) indicates three contact hours of lecture and two contact hours of laboratory each week. Lecture contact hours are the hours per week students are required to spend in contact with faculty in a lecture setting, e.g., class, conference, seminar, individual instruction, private lesson, thesis or dissertation discussion, or independent study. Laboratory contact hours are the number of hours per week that students are required to spend in contact with faculty in an experiential situation, e.g., laboratory clinical, practicum, internship, or student teaching.

## CUMULATIVE GRADE POINT AVERAGE

A student's Cumulative Grade Point Average (CGPA) is calculated by dividing the total number of quality points earned by the total number of GPA hours.

## DISTANCE/ONLINE LEARNING

Distance Learning is a formal educational process in which the majority of instruction (interaction between instructors and students) occurs when students and instructors are not in the same physical location. Distance Learning courses may employ the internet, broadcast, audio, video, or recordings. Instruction may be asynchronous or synchronous.

**Asynchronous Learning** uses online learning resources to facilitate instruction outside the constraints of time and location, meaning students may take courses to accommodate their busy schedules. Asynchronous course content at SRSU is available through Blackboard, a course management system (CMS). Online degree programs and courses are generally asynchronous.

**Synchronous Learning** refers to instruction that occurs at a designated class time through synchronous tools such as Blackboard, Adobe Connect, WebEx, Zoom, and Skype. Synchronous instruction requires students to attend online classes on a regular schedule.

To protect the integrity of its educational courses and programs, the University takes measures to ensure a student awarded academic credit is the same student who successfully completes course requirements. Students enrolled in any distance learning course may be required to participate in authentication methods such as a) secure login and pass code, b) proctored examinations, or c) new or other technologies and practices that are effective in verifying student identification. There may be additional charges associated with proctored examinations or other verification processes. If applicable, this authentication requirement and associated fees will be clearly stated on the course syllabus or registration materials.

## FACULTY-DIRECTED INSTRUCTION

Direct instruction is defined as faculty lead or assigned activities that lead to student learning. This may include but is not limited to traditional lecture, facilitating seminars, giving feedback on individual or group projects, reflection/feedback of student work, feedback on group work, individual or group project feedback/facilitation, reviewing drafts of papers, or projects and other activities that engage the students in learning the material. This description will be noted in the course syllabus.

### Online Courses

All distance education courses (i.e. online, hybrid, blended) align with the credit hour policies and definitions above stated. Distance education course learning objectives, assignments, and assessments are comparable to in-seat courses and require at least as many hours of study and provide the same rigor and, thus, result in the same credit hours awarded upon completion.

### Application of Federal Credit-Hour Policy to SRSU Instruction

**Accelerated Sessions:** Courses offered within the standard semester in which the credit hours offered are the same as standard semester courses. The content and substantive learning outcomes are the same. These courses have the required 2250 contact minutes, and/or meet in hybrid or online format.

**Lecture/Seminar:** Course focuses on principles, concepts or ideas, lecture, discussion, and demonstration. A semester credit hour is earned for a minimum of fifteen, 50-minute sessions of direct faculty instruction and a minimum of two hours of student preparation time outside of class per week throughout the semester. A typical three-credit hour course meets for three, 50-minute sessions or two, 75-minute sessions a week for at least fifteen weeks. Most lecture and seminar courses are awarded 3 credits.

**Laboratory:** Practical application courses where the major focus includes “hands on” experience to support student learning (use of equipment, activities, tools, machines generally found in a laboratory). 1- 2 Laboratory credits represents a minimum of 1 hour per week of lecture or discussion plus a minimum of 2 – 4 hours of scheduled supervised or independent laboratory work.

**Internship/Field Experience:** Courses developed for independent learning and the development and application of job related or practical skills in a particular discipline. These courses allow for observation, participation, and fieldwork, and are generally offered off campus. Internship time includes a combination of supervised time by approved experts outside the university, student assignments, and time supervised by a university instructor. A 3 credit internship equals a minimum of 150 hours.

**Practicum/Student Teaching:** Courses developed for independent learning and the development and application of job related or practical skills in a particular discipline. These courses allow for observation, participation, client evaluation, fieldwork, and are offered off campus. Internship time includes a combination of supervised time by approved experts outside the university, student assignments, and time supervised by a university instructor.

**Clinical Placement:** Supervised experiences where students are afforded an opportunity to apply skills and techniques acquired from assessment and intervention-oriented course material. The number of hours varies by academic program based on clinical placement, accreditation requirements, site hour requirements, and student assignments.

**Independent Study:** Courses that permit a student to study a subject or topic in considerable depth beyond the scope of a regular course. Students meet periodically, as agreed upon with the faculty member for the duration of the course. University faculty provides guidance, criticism, and review of the student's work. Students demonstrate competency through the completion of a final assessment either by submitting a final paper, project, or portfolio, etc. as required by the faculty member. Credit hours are assigned based on the amount of activity associated with the course, faculty supervision, and amount of student outside work. Credits conform to the standard minimum of 50 minutes of student work per credit hour, per week, for the course of the term or the semester. For a 15-week semester, this would be equal to 112.50 hours for a 3- credit independent study.

**Hybrid:** A course that is composed of both online learning and classroom learning to meet the learning objectives of the course is considered hybrid. In a hybrid course, approximately half of the course is scheduled as face-to-face, and 49% or less of the course is to be scheduled as online. For a three-credit 15-week course, up to 76.50 minutes (1.275 hours) a week are scheduled face-to-face and up to 73.50 minutes (1.225 hours) per a week are scheduled online equaling a total of 150 minutes of instruction per week.

**Online:** Approved online courses must demonstrate instruction and student learning through interactive methods to include tutorials, group discussions, virtual study/project groups, discussion boards, chat rooms, etc. Credits hours assigned to a course delivered online must equal the number of credit hour equivalency for the same course delivered face-to-face. Quality Matters standards for the design and delivery of online courses are used in online course development and faculty who teach online courses have been trained in online teaching pedagogy through quality matters.

## **FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)**

Sul Ross State University has adopted institutional procedures in compliance with The Family Educational Rights and Privacy Act of 1974 (FERPA), assuring the right of a student to review his or her educational records upon request. For more information, please inquire at the Center for Enrollment Services in Alpine or the Assistant Provost and Dean in Uvalde 830-279-3032, or the Director of Admissions and Records in Eagle Pass 830-758-5006.

### **Educational Records Defined**

(a) Educational records include those records that are:

3. Directly related to a student; and
4. Maintained by an educational agency or institution or by a party acting for the agency or institution.

(b) Educational records do not include:

4. Records that are kept in the sole possession of the maker, are used only as a personal memory aid, and are not accessible or revealed to any other person except a temporary substitute for the maker of the record.
5. Records of the law enforcement unit of an educational agency or institution, subject to the provisions of § 99.8.
6. (I) Records relating to an individual who is employed by an educational agency or institution, that:
  - (D) Are made and maintained in the normal course of business;
  - (E) Relate exclusively to the individual in that individual's capacity as an employee; and
  - (F) Are not available for use for any other purpose.
8. (II) Records relating to an individual in attendance at the agency or institution who is employed as a result of his or her status as a student are education records and not excepted under paragraph (b)(3)(i) of this definition.
9. Records on a student who is 18 years of age or older, or is attending an institution of postsecondary education, that are:
  - j. Made or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in a paraprofessional capacity;
  - jj. Made, maintained, or used only in connection with treatment of the student; and
  - jjj. Disclosed only to individuals providing the treatment. For the purpose of this definition, "treatment" does not include remedial educational activities or activities that are part of the program of instruction at the agency or institution; and
10. Records created or received by an educational agency or institution after an individual is no longer a student in attendance and that are not directly related to the individual's attendance as a student.
11. Grades on peer-graded papers before they are collected and recorded by a teacher.  
(Authority: 20 U.S.C. 1232g(a)(4))
- 12.

### **Confidentiality of Educational Records**

Sul Ross State University has adopted procedures in compliance with The Family Educational Rights and Privacy Act of 1974. The Act provides students the right to review their educational records upon request. To preserve strict confidentiality of records, the University does not permit access to or release of educational records or personal information, other than directory information, or without the written consent of the student.



Exceptions to this restriction are limited to the following:

- Judicial subpoena of records, upon condition that the University makes a reasonable effort to notify the student in advance of the release of records.
- Emergency situations, if knowledge of personal information is necessary to protect the health and safety of a student or other person(s).

Directory information is defined as:

Student's name, permanent address and telephone number, Sul Ross email address, age, major field of study, dates of attendance, classification, enrollment status (full-time or part-time), participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees, honors, and awards received (including University scholarships), and the most recent educational agency or institution attended.

Students may request that the University not release directory information by completing a Request for Non-Disclosure of Directory Information form. For more information regarding your privacy rights, contact the Center for Enrollment Services or the Office of Admissions and Records in Eagle Pass 830-758-5006.

### **Gramm-Leach-Bliley Act**

In accordance with the Gramm-Leach-Bliley Act (GLB Act), Public law 106-102 (1999), Sul Ross State University protects the private non-public information of students and employees.

SRSU collects information such as:

- Name Gender
- Social Security Number
- Financial Status
- Date and location of birth
- Salary History
- Driver's License Numbers

SRSU's policy is to identify and safeguard this information with the appropriate procedures to insure compliance with the GLB Act. SRSU manages private non-public information in accordance with all applicable state and federal guidelines relating to use, disclosure and retention of private non-public information.

## **GRADE REPORTS**

The University reports grades at the end of each semester for all students. Only the grades reported at the end of the semester (final grades) are used in the computation of the student's Grade Point Averages and Academic Standing. Mid-term grades may be given and are simply an indication of a student's progress.

The University does not mail final grade reports. Students may access their grades through Lobo OnLine.

## **THE GRADUATE COUNCIL**

The Graduate Council consists of department chairs or representatives of departments with graduate programs in Alpine and off-site campuses. The Council serves as an advisory group to the Dean of Graduate Studies, who chairs the Council and implements its policy recommendations or submits those recommendations to the Provost for approval by the Executive Committee. The principal responsibilities of the Council are as follows:

- To serve in an advisory capacity for recommending new degree and certification programs, admissions and graduation policies, and policies to ensure high quality graduate programs throughout the University.
- To establish and review criteria for membership on the graduate faculty
- To make recommendations on matters of institutional effectiveness relating to graduate studies, including adherence to standards of the university as printed in the Catalog and to the accreditation criteria of the Southern Association of Colleges and Schools.
- To recommend policies on professional development of the graduate faculty.

## **THE GRADUATE FACULTY**

All graduate courses taught at Sul Ross State University are taught by members of the graduate faculty. The graduate faculty will impart the skills and methodology of scholarship and the art of critical inquiry to the student. This is accomplished in seminars, through graduate research, by means of internships and practicums, and in thesis or major project undertakings.

Members of the graduate faculty will have a terminal degree or equivalent in their discipline and exhibit scholarly excellence through research, artistic creativity, or other appropriate functions related to the goals of graduate programs.

## **QUALITY OF GRADUATE WORK**

### **Leveling Work**

"Leveling" work, undergraduate courses taken to remove deficiencies in the student's field of study, will not be counted in the graduate-level grade point average, but the student is expected to exhibit the same proficiency in this area as in the graduate-level courses.

Any courses not specifically identified within a student's Program of Study are not eligible for financial aid. Students should contact their Advisor to determine the best approach to satisfy leveling coursework. Students will not be allowed to enroll into more than 12 hours of levelling coursework.

A graduate student admitted under academic probation whose grade point average falls below 3.0

will be suspended from further graduate study.

## **THE GRADUATE DEGREE PLAN**

Official degree plans are maintained in Degree Works, a degree audit system that allows students and advisors to maintain an electronic degree plan that is automatically updated as requirements are met. Any change in the official plan (substitutions, waivers) will be permitted only on the basis of reasonable cause. All changes must be approved by the advisor, department chair, and the Dean of the College. Any transfer work to be applied to degree requirements must comply with requirements specified under “transfer work”. If professional certification is desired, the student must also have the approval of the Director of Teacher Education.

## **THE GRADUATE COMMITTEE**

The student and the major advisor should establish a graduate committee following these criteria:

1. The committee should be composed of no fewer than three members, at least two representing the major department. One member may be from another department or a professional from outside the University in an appropriate discipline.
2. Faculty members must be members of the Graduate Faculty.
3. External members must meet the established requirements for membership to the Graduate Faculty or the professional equivalents.

## **THE THESIS**

Students who are required to write a thesis in a Master of Arts, Master of Science, or Master of Business Administration program are required to follow the indicated procedures.

1. The committee shall be composed of no fewer than three members, at least two representing the major department.
2. A graduate student following a degree plan, which requires a thesis, must be registered during any semester or summer term in which assistance is provided by the committee members or when the library or other research facilities of Sul Ross State University are used. All graduate students must be enrolled when the thesis is submitted to the Office of Graduate Studies and accepted for graduation.
3. The thesis must be submitted to the committee chair and the thesis committee early in the semester that the student plans to graduate. Once the student has made any revisions specified by the chair and the committee, the final copy of the thesis should be prepared and the thesis defense scheduled. The College of Graduate Studies will provide a timeline each semester indicating the dates by which the thesis must be submitted to all parties.
4. A public oral defense of the thesis is required of all candidates prior to the submission of the final thesis to the College of Graduate Studies. Announcement of the defense must be posted in the major department, the appropriate College office, the College of Graduate Studies, and the office of the Provost and Vice President for Academic and Student Affairs at least one week prior to the defense. Following a successful defense, committee members will sign the approval page of the thesis.
5. The final copy of the thesis and the signed approval page must be submitted to the Office of Graduate Studies. The Graduate Thesis Coordinator reviews the thesis for required formatting, per University standards. Once the student has made any required format changes and the thesis has been approved by the Dean of Graduate Studies, the thesis can be uploaded to ProQuest.

6. The Office of Graduate Studies will assist the student in formatting an electronic copy of the thesis for ProQuest, following the guidelines using the ProQuest website. The student will pay a standard fee of \$100 (or ProQuest's current charges), which pays for binding four copies of the thesis (two for the University library, one for the major department, and one for the student). A portion of this fee ensures the inclusion of the full text of the thesis in ProQuest's subscription database, ProQuest Dissertations & Theses Database (PQDT). Any additional copies are at the student's discretion.
7. Only when the thesis has been approved and submitted to ProQuest will the student earn a final grade in the thesis defense. The approval of the Dean of the Academic College and the Graduate College is required before a grade may be submitted by the student's advisor.

## **GRADUATION – GENERAL**

All candidates for the master's degree must pass a comprehensive examination or portfolio defense, either oral or written or both as specified by the major department. This examination may be scheduled through the major advisor after the student has completed at least twenty-four (24) semester hours of graduate credit.

Students failing the comprehensive examination will be given an opportunity to retake the examination and meet other stipulations established by the committee or department. A third and final attempt will be allowed with the approval of the Dean of the College. The results of each attempted examination must be filed in the Dean of the College's Office. All students must be enrolled in each term that the comprehensive exam is attempted and must be enrolled in the term they graduate.

Before a candidate can be cleared for graduation, a passing grade on the examination must be filed in the Dean of the College's Office at least ten days before the commencement at which the degree is to be conferred.

Graduating students must be enrolled at Sul Ross State University in the term in which they apply for graduation. Students not enrolled at SRSU during the semester they plan to graduate who are completing coursework at another institution will not be cleared to graduate.

## **GRADUATION CEREMONY**

The University awards degrees in May, August and December. Students must complete all degree requirements and apply for graduation by the published due date. Students will not be allowed to participate in the graduation ceremony prior to completion of degree requirements.

### **Graduation – Application**

Alpine: Applications to graduate must be submitted to the Registrar. Forms are available online at [www.sulross.edu/registrar](http://www.sulross.edu/registrar). A student is expected to submit an application for graduation by the application deadline or before the final semester of enrollment and pay applicable fees. Students who are not able to complete degree requirements as planned will resubmit the application during the semester or summer term in which they expect to graduate. The University Calendar at the front of this Catalog should be consulted for the graduation application deadlines.

RGC: Forms may be obtained from the Dean's office of Rio Grande College or any of the Business Services offices at any of the three sites or online under Forms and Downloads. A diploma fee of

\$30.00 is required. A student is expected to submit an application for graduation during the semester preceding the final semester of enrollment. Students who are not able to complete degree requirements as planned will re-submit the application during the semester or summer term at the end of which they expect to graduate. Applications which must be resubmitted require a \$5.00 diploma insert fee. The University Calendar at the front of this catalog should be consulted for a specific deadline for applying to graduate. Students applying after the posted deadline for application in the Academic Calendar must also pay a \$25.00 late application fee.

### **Commencement**

Commencement ceremonies for the awarding of degrees to candidates are held at the end of the spring semester and at the end of the fall semester on the dates listed in the University Calendar. Students graduating in August may participate the December commencement exercise. Graduates are expected to participate in commencement. Information and instructions concerning commencement will be e-mailed to each candidate prior to graduation. Please see the Graduation and Commencement page for additional details.

## **REQUIREMENTS FOR A SECOND MASTER'S DEGREE**

Subject to the approval of the Dean of the College and the department Chair, a student holding a valid master's degree from an accredited graduate institution within the past ten years may apply certain courses which were a part of the first master's degree toward a second master's degree. Generally, these previously applied semester hours will be applied toward a minor or related field of study. The number of semester hours so permitted will be:

- a) For thirty-six semester hour programs, no more than twelve semester hours of approved courses with no grade of less than "B" in each, including all extension and transfer work; or
- b) For thirty semester-hour programs, no more than nine semester hours of approved courses with no grade less than a "B" in each, including all extension and transfer work.
- c) All remaining courses necessary to complete the second master's degree must be credit courses at Sul Ross State University as this provision is subject to the rules governing the maximum amount of transfer and extension work which may be applied toward any master's degree. A grade point average of 3.0 must be maintained in these courses, exclusive of the work accepted in a and b above.

The second master's degree will be subject to the general rules governing master's degrees except as stated above.

## **MATRICULANT STATUS**

A Matriculant is a student who has been officially admitted by the University as a candidate for an academic credential. Matriculants are guaranteed SRSU will provide the courses they are required to fulfill the requirements for the credential. In order to maintain matriculant status a student must complete academic coursework. The Catalog (Catalog Year) in effect when a student matriculates contains the policies and requirements under which the student must satisfy graduate.

## **MAXIMUM AND MINIMUM WORK**

### **Regular session:**

The graduate load shall not exceed fifteen (15) semester credit hours per semester.

**Summer session:**

The graduate load shall not exceed 12 total hours with six (6) semester credit hours per module in the summer session.

**Graduate assistants:**

A graduate student employed as a graduate assistant may carry a combined course/work load of no more than 32 clock hours per week.

**Full-time student:**

Any graduate student who registers for nine (9) or more semester credits in the University during a long semester is considered a full-time student.

Any graduate student who registers for a total of six (6) credits in the summer term is considered a full-time student.

For students on assistantship, refer to the Administrative Policy Manual for student employment eligibility.

### **MAXIMUM TIME TOWARDS DEGREE ON CATALOG**

The maximal period of time for which the provisions of any Catalog may be considered valid is 6 years. Students who began a degree program six or more years prior to the date of their anticipated graduation must consult their academic dean to determine which Catalog must be followed.

From the time of successful completion of the Comprehensive Examination and/or Oral Defense, students are allowed a maximum of one calendar year to successfully complete their thesis and submit to ProQuest.

### **REGISTRATION**

**Registration – General**

New students plan their courses and register in consultation with an academic advisor prior to the beginning of their first semester.

A student's SRSU email account is the primary vehicle for communicating administrative or transactional information to students. Registration must be performed online via the student portal – Lobo Online.

Tuition and Fees must be paid. A complete bill is available to each student via Lobo Online. It is imperative students check their SRSU email regularly for reminders regarding tuition and fee payment deadlines or other information regarding dates for payment, registration, drop/add, withdrawal, or graduation. Payment of tuition and fees is due approximately one week before classes begin each term. SRSU offers multiple payment plans and students are encouraged to contact the Business Office to discuss options.

**No one may register/enroll in any enrollment period after the official registration period indicated in the University Calendar. No student will be permitted to remain in class unless the instructor has received evidence of proper registration (which includes payment).**

### **Registration – Adding Courses for Credit**

Courses may be added for credit only during Registration (Drop/Add) period for a given term. Students are required to monitor the official University Academic Calendar for all dates surrounding registration changes and charges associated with these changes.

### **Registration – Auditing Classes**

Regularly enrolled students at SRSU may audit a class by obtaining written permission from the Chair of the Department in which the course is taught and the Dean of the College in which they are enrolled. The fee for auditing a course is \$50 per credit.

Once a student has audited a course, they will not receive university academic credit by any means of advanced standing, examination, or advanced placement on previously audited work. Students are allowed to enroll and receive academic credit for previously audited work by enrolling in the course for academic credit.

### **Registration – Dropping Courses**

Courses may be “dropped” during the Registration, Drop/Add period for a given term. Students are required to monitor the official Academic Calendar regarding scheduling dates and their particular access to registration via their Lobo Online portal. Students should be aware there are differing dates and associated fees for registration actions (adding vs. dropping). Please consult The Catalog for charges associated with dropping and adding courses.

Students should be aware there could be financial aid implications for dropping a course. Students are encouraged to contact the Office of Financial Aid before dropping courses.

Students will not be allowed to drop a course after the published end date. Students who fail to drop courses by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester.

A student may be dropped, at the discretion of the Dean of the College, from any course for which the student is ineligible.

Failure to attend class does not constitute a course drop. Withdrawn courses reduce a student’s enrolled hours, but not the student’s financial obligation (see section on Withdrawal from the University).

### **Penalty for Non-Payment of Tuition and Fees**

Students who do not complete payment of tuition and fees by the date specified each semester may be withdrawn from the class at the discretion of the Business Office. Non-payment is not a means of dropping a class. Re-registration is possible before class begins or during the Drop/Add period, on a space available basis, with payment of an additional registration fee.



## **Change of Registration – exceptions**

Changes in registration/enrollment must be made before the end of the Drop/Add Period. Once the Drop/Add Period is complete, students may not add a course or change sections of the same course.

To withdraw from a course after the Drop/Add Period, the student must do so by completing a Course Withdrawal Form. The completed form is filed with the Registrar's Office. The deadline for withdrawing from a course is published in the academic calendar. Students who stop attending class, and do not officially withdraw, will be assigned a grade of "FX" and are financially responsible for the full tuition charged for the course.

## **Schedule Changes**

Courses may be added during the regular and late registration periods for the term. Courses may be dropped through the last day to drop a course. Courses dropped through the official Census date for the term do not appear on the student's permanent record. Courses dropped after the official census date for the term through the last day to drop a course will be assigned a grade of "W" or "WX" (refer to the Six Drop Rule in this catalog for more information). No courses may be dropped after the published last day to drop or withdraw.

Dropping all classes on or after the first day of a term is considered a withdrawal. An official withdrawal form must be completed and submitted to the Center for Enrollment Services in Alpine or the Office of Admissions and Records, RGC.

Withdrawal prior to the official census date for the term will result in no academic record for the term. A withdrawal after the official census date for the term through the last day to withdraw will result in the creation of an academic record; all classes will be reported with a grade of "W". Requests for withdrawal will not be processed after the published last day to withdraw.

Schedule change and withdrawal forms be found online at: [www.sulross.edu/registrar](http://www.sulross.edu/registrar).

Dates for registration periods, official census dates, and last day to drop or withdraw are published on the University's calendar at [www.sulross.edu](http://www.sulross.edu). The refund policy for dropped courses and withdrawals may be found in this catalog and online at [www.sulross.edu](http://www.sulross.edu).

## **STATUTE OF LIMITATIONS**

In the absence of any designated time limits in documents on policies or procedures, the University imposes a time limit of one year for the initiation of any request for an exception to its rules or regulations.

## **STUDENT HANDBOOK**

The Sul Ross State University Student Handbook is an official student policy. The SRSU Student Handbook describes what is expected of a student with respect to behavior and conduct in the SRSU community and outlines the procedures to be followed when these expectations are not met. The Student Handbook includes the Code of Student Conduct as well as other rules, regulations, and policies governing student life.

## **STUDENT IDENTIFICATION CARD**

Each student is issued a permanent identification card, including a photograph, and a student number. This card will be used for the entire duration of the student's enrollment at the University. The card is required for borrowing library books, cashing personal checks, admittance to athletic and social events, selling used textbooks, Testing Services, meal plans, entrance into university buildings – including residence halls, and other official purposes. Fraudulent use of the ID card is a violation of the Honor Code and will result in disciplinary action. The card is issued to the individual student and must not be loaned to another person for any reason. Any University official having just cause has the right to request that a student show the identification card for identification purposes. Upon such a request by a University official, the student is required to comply.

## **TERM/SEMESTER GRADE POINT AVERAGE**

A student's Semester/Term Grade Point Average (TGPA) is calculated by dividing the total number of quality points earned in the semester by the total number of GPA hours attempted in the semester.

## **TRANSCRIPT OF RECORD**

The official permanent academic records for all SRSU students are in the custody of the Registrar's Office. Release of these records is protected by the "Family Educational Rights and Privacy Act" (FERPA). Transcripts of the academic record may be secured by the individual personally or will be released on the student's written authorization. Transcripts cannot be issued until the student or former student has settled all financial obligations to the University and has submitted all required transcripts from other colleges attended.

## **TRANSCRIPT SERVICES**

### **Online Ordering Services**

Printed hard copy transcripts, electronic transcripts, and FedEx delivery service are all available online through Credentials Solutions, Inc.

If you have your LoboOnLine credentials, you can authenticate by logging in to LoboOnLine. This allows you to avoid completing the Signature Authorization form:

1. Log into LoboOnLine.
2. Select Student tab.
3. Select Student Records.
4. Select the Order Official Transcript link – this redirects you to Credentials Solutions, Inc.
5. Follow the provided instructions to complete your order.

If you are not able to authenticate through LoboOnLine (Alumni):

1. Use Credentials Solutions, Inc. to place your order.
2. Follow the provided instructions to complete your order.
3. Use a mouse or touch screen to complete the authorization process.

When placing an order online, we recommend using Edge, Mozilla Firefox, or Safari web browsers. The pop-up blocker may need to be disabled in order to access the order page.

Federal Express delivery is only available when placing an online order. E-Transcript and First Class

mail delivery is also available. Credit or debit cards are accepted for payment.

### **Free transcripts**

A Publications and Records fees was approved and assessed to all students beginning in the fall 2004 term. If you attended Sul Ross fall 2004 or later, you paid this fee and are entitled to two free paper transcripts per term in which the fee was paid. You must request your free transcript(s) in writing using the paper transcript request form. There are no “rush” options available for free paper transcripts. Processing and delivery via USPS may take up to two weeks.

Free paper transcripts are printed in either Alpine or Eagle Pass. Paper transcripts can be given to the student (valid photo ID required) or delivered by First Class mail. Federal Express delivery is only available when placing an online order through Credentials Solutions, Inc. Students are responsible for providing the correct delivery address.

In Person Requests (valid photo ID required)

## **UNDERGRADUATE STUDENTS IN GRADUATE COURSES**

Undergraduate students with good academic standing may enroll for graduate credit if they meet these criteria:

1. They are within 12 hours of graduation.
2. Their total course load does not exceed fifteen semester hours in the regular session, or six semester hours in each summer term,
3. They have the written permission of (a) their major advisor, (b) the instructor of each course involved and (c) the Dean of the College at the time of registration.

Students should be aware of the following conditions:

1. Under no circumstances may graduate courses be taken to fulfill requirements for a baccalaureate degree.
2. No course taken without the requisite permission may be counted for graduate credit toward a degree.
3. There is no guarantee that work approved and completed will be accepted for fulfillment of degree requirements.
4. The maximum number of graduate semester hours that an undergraduate may accrue is twelve.

## **UNDERGRADUATE COURSES FOR GRADUATE CREDIT**

In exceptional circumstances, certain upper-level undergraduate courses, which are taught by members of the Graduate Faculty or Associate Graduate Faculty, may be taken for graduate credit upon (a) consent of the instructor of the course and (b) approval of the graduate major advisor. The student will enroll in a graduate level course cross-listed with the undergraduate course. Graduate students are required to attend the undergraduate course and complete all work required at the undergraduate level. In addition, graduate students must complete additional work beyond that required in the undergraduate course representative of the breadth, depth, scope, and increased contact required of graduate level work. This work may include but not be limited to: documented papers, essays, themes, research, or equivalent and/or other assignments deemed appropriate by the graduate faculty instructor.

A graduate course syllabus identifying the additional work to be done for the course and the means by which a grade will be determined must be developed by the faculty member offering the

undergraduate course for graduate credit.

Once a student has begun an undergraduate course for graduate credit, the course must be completed as a graduate course.

## **UNIVERSITY CLOSURES**

If the University must close due to unexpected circumstances, faculty and students will have to make up missed class and laboratory time. In some circumstances resulting in closure of the University, the Provost will determine how classes will be made up. In other circumstances, the methods for making up missed classes and laboratories will be with extra assignments and readings, additional days of class or laboratory, additional class time, or in other manners to be determined.

## **UNIVERSITY DISCIPLINE**

Sul Ross State University expects of its students a high degree of honor in all phases of college life. It is the responsibility of all students to familiarize themselves with the rules and regulations governing student conduct as published whether in print or on the web, in the SRSU Student Handbook and other official publications.

The authority structure for administering the judicial code is the President, through the Vice President for Student Life. Please refer to the section on Judicial and Student Assistance in this catalog and to the SRSU Student Handbook for more details.

## **VETERAN EDUCATION BENEFITS RECIPIENTS**

Sul Ross State University serves those students who are eligible to receive educational benefits from the Veterans Administration. Records are maintained and reports made to the Veterans Administration on behalf of veterans, dependents, active-duty servicemen, and eligible reservists enrolled in the University.

Students eligible to receive educational benefits from the Veteran's Administration must inform the Veteran's Certifying Official at each registration to insure prompt certification of enrollment. In addition to receiving the academic advisor's approval of the course schedule, these students should also confer with the Veteran's Certifying Official prior to registration concerning certification of the courses.

The Veteran's Certifying Official should also be notified of any changes in the Schedule at any time during the registration period.

Students eligible to receive educational benefits from the Veterans Administration must also have on file in the Center for Enrollment Services a degree plan by the end of the first semester of enrollment at the University.

Veterans who were legal Texas residents prior to their enlistment and who have resided in Texas at least twelve months after their discharge from the service may be eligible to enroll under the Hazelwood Act which exempts them from paying tuition. Under this act, the veteran is required to pay local specified fees. For more information, contact the Veteran's Certifying Official at (432) 837-8050 in Alpine or at (830) 703-4816 in Del Rio.

Any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation

and Employment, or chapter 33, Post-9/11 GI Bill benefits will be allowed to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a “certificate of eligibility” can also include a “Statement of Benefits” obtained from the Department of Veterans Affairs’ (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

- a) The date on which payment from VA is made to the institution.
- b) 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

Sul Ross will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any student because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of funds from VA under chapter 31 or 33.

### **WITHDRAWAL FROM THE UNIVERSITY FOR A TERM**

The University reserves the right to request at any time the withdrawal of a student for reasons of poor scholarship or unsatisfactory conduct or non-attendance. Students who voluntarily withdraw from the University must submit a withdrawal form.

Failure to attend classes does not constitute a withdrawal. Withdrawal eliminates a student's enrolled hours, but not the student's financial obligations.

**Caution: Withdrawing from courses may have an adverse effect on financial aid, scholarships, loan deferments, athletic eligibility, health insurance, veteran's benefits, degree requirements, or other areas. Students considering course drops or withdrawal should first check with their advisor, College, and Enrollment Services to determine if this is their best option.**

# COLLEGE OF AGRICULTURAL, LIFE AND PHYSICAL SCIENCES

## College of Agricultural, Life and Physical Sciences

Office: Everett. E. Turner Range Animal Science Center 101

Phone: (432) 837-8201

FAX: (432) 837-8406

E-mail: [bwarnock@sulross.edu](mailto:bwarnock@sulross.edu)

Website: <https://www.sulross.edu/catalog/college-of-agriculture-life-and-physical-sciences/>

Bonnie Warnock, Ph.D., Dean

The College of Agriculture, Life, and Physical Sciences serves students that will be the next leaders in the diverse and dynamic STEM fields. Students in ALPS are interested in pursuing careers in **Agriculture** including agricultural business, agricultural education, and the ranching industry; **Animal Science** including the production and care of domestic livestock and horses, the science and safety of meat and food production, and veterinary medicine; **Biology** including field and lab biological sciences, pre-health disciplines and science teacher certification; **Chemistry** including inorganic, organic, biochemistry, and analytical; **Computer Science** including the fields of devices, cybersecurity, gaming and digital art; **Geology** including field geology, hydrology, and GIS; **Mathematics** including general math applications and teacher certification; **Natural Resource Management** including management and conservation of rangelands and wildlife; **Industrial Technology** including manufacturing, construction, and supply chain management; and **Nursing**.

Our faculty stress a hands-on approach to learning with emphasis given to building a solid background in the fundamental principles and specialized experience in the student's specific field of study. We pride ourselves in offering excellent facilities and learning opportunities in a student-oriented, learner-centered environment.

Our students benefit from state-of-the-art facilities, collections, and field opportunities.

- The Turner Range Animal Science complex with associated ranch, feedlot, horse barn, S.A.L.E. covered arena, outdoor arena, and stalls is located within 1.5 miles of main campus.
- The Warnock Science Building with the A. Michael Powell Herbarium, James Scudday Vertebrate Collection, Jim V. Richardson Invertebrate Collection, Analytical Lab, and adjacent greenhouses and native plant gardens tied into the ZuZu Verk Outdoor Amphitheatre.
- Computer resources include two state of the art computer science labs, motion capture lab, GIS lab, and RAS technical lab.
- The Sierra Blanca Ranch, a Sul Ross State University Research and Teaching Field Site, is located in Hudspeth County between Van Horn and Sierra Blanca along Interstate 10. This 14,700 acre working ranch provides hands-on teaching and research opportunities for students in the Departments of Animal Science and Natural Resource Management. It also helps support the Bar SR Bar cattle herd and the Rodeo Livestock.
- The Sul Ross Meat Market located at the Turner Range Animal Science Complex, is a state inspected facility that processes and sells beef, pork, lamb, and goat. The facility offers students the hands-on opportunity to learn the entire process of meat processing from harvest to sales. The retail counter is open to the public and offers both grain and grass-fed meats.

Students can earn degrees within six departments (Animal Science; Biology, Geology and Physical Sciences; Computer Science and Mathematics; Industrial Technology; Natural Resource Management; and Nursing) as follows:

### **Bachelor of Science**

- **Agriculture** with concentrations in:
  - Agricultural Business
  - Agricultural Education
  - Agriculture Systems
  - Sustainable Ranch Management
- **Animal Science** with concentrations in:
  - Pre-Veterinary Medicine
  - Production
  - Science
  - Students focusing in either Production or Science can further specialize by selecting classes in general livestock, equine, or meats
- **Biology**
- **Chemistry**
- **Computer Science** with concentrations in:
  - Traditional Computer Science
  - Gaming Technology
  - Cybersecurity
- **Geology**
- **Industrial Technology** with concentrations in:
  - Manufacturing
  - Construction Management
  - Supply Chain Management
- **Mathematics** with concentrations in
  - Mathematics
  - Math Teacher Certification
  - Pre-Engineering
- **Natural Resource Management** with concentrations in:
  - Conservation Biology
  - Range and Wildlife Management
- **Nursing** with two tracks
  - Traditional BSN
  - RN to BSN

### **Master of Agriculture**

- [Animal Science \(online\)](#)
- [Natural Resource Conservation \(online\)](#)

### **Master of Science**

- [Animal Science \(thesis\)](#)
- [Biology \(thesis\)](#)
- [Biology \(non-thesis\)](#)
- [Geology \(thesis\)](#)
- [Geology \(non-thesis\)](#)



- [Range and Wildlife Management \(thesis\)](#)
- [Range and Wildlife Management \(non-thesis\)](#)

In addition to the academic departments, the College also is the home of the award winning SRSU **Rodeo** team, with the distinction of being the 1949 birthplace of the National Intercollegiate Rodeo Association. The Sul Ross rodeo team has earned nine national championships (seven men's and two women's).

The **Borderlands Research Institute for Natural Resource Management** which was founded in 2007 to help further the research mission at Sul Ross State University is also housed in the College and works closely with the Department of Natural Resource Management. BRI focuses on research to obtain practical information to benefit land owners and managers with outreach and educational activities to get that information to land managers. BRI grants support research projects for multiple graduate students and undergraduate students, providing funding and opportunities for current and relevant scientific research and experience with outreach and education.

## **RODEO**

Sul Ross State University is well known for its rodeo program and was the 1949 birthplace of the National Intercollegiate Rodeo Association. Sul Ross rodeo teams have earned nine national championships (seven men's and two women's) with well-known former members including Tuff Hedeman, Cody Lambert, and Tami Noble.

The rodeo program consists of state-of-the-art facilities including lighted, covered and outdoor arenas for practices and events. Practice stock is provided for student use during scheduled practice sessions at the University. There are usually three scheduled practices each week and additional practice can be arranged with the coach.

A number of scholarships are available for students who are interested in rodeo. Along with the scholarships, team members are provided budgeted travel monies to help with expenses while traveling to collegiate rodeo competition.

The rodeo club at Sul Ross State University sponsors many events throughout the year. Some of these annual events include jackpot team roping, the annual N.I.R.A. rodeo, and manning the Chili Appreciation Society International Booth at the annual Terlingua Chili Cook-off. Club monies support team activities and scholarships, and other activities determined by the club. Club members are not required to be rodeo team members.

For more information visit <https://www.sulross.edu/rodeo/>.

## **M.AG., ANIMAL SCIENCE**

### **Overview:**

The Master of Agriculture in Animal Science is an online, non-thesis program and features an expert faculty across a variety of concentrations. Our goal is to provide the best education and preparation available for professional careers in the animal agriculture industry. The Animal Science Department also offers a [Master of Science in Animal Science](#) thesis program.

Programs in Animal Science emphasize, through the mastery of advanced technology, methods of improving and/or better utilizing agricultural resources. The graduate program is designed to prepare students for advanced education (Ph.D.) and/or for careers in teaching, extension service, research, management, and other occupations requiring the higher-level capabilities of resource managers or scientists. GRE scores of 290 (verbal and quantitative) are required for full admission to the M.S. thesis program. Additional requirements for all Master of Science options include a letter of intent, a resume, and two letters of recommendation from outside the department. Departmental GPA requirements are the same as general admission requirements outlined for the university. For the Master of Agriculture degree, admission requirements follow SRSU general admission requirements for graduate studies. The GRE is not required for the Master of Agriculture in Animal Science online program. Offerings in collateral fields enable the student to develop a program tailored to their particular needs and interests

Applications to the Master of Science in Animal Science with thesis (in-residence) and a Master of Agriculture in Animal Science non-thesis (online) degree are accepted year around.

### **Degree Plan:**

#### **Master of Agriculture with a concentration in Animal Science**

Semester I, Fall		Semester II, Spring	
ANSC 5308	3 credit hours	ANSC 5321	3 credit hours
ANSC 5320	3 credit hours	ANSC 5324	3 credit hours
ANSC 5322	3 credit hours	ANSC 5326	3 credit hours
ANSC 5325	3 credit hours	ANSC 5327	3 credit hours
Total: 12 sch		Total: 12 sch	
Semester III, Summer			
ANSC 5317	3 credit hours		
ANSC 5323	3 credit hours		
ANSC 5328	3 credit hours		
ANSC 5329	3 credit hours		
Total: 12 sch			

#### **Total Credit Hours Required for Master in Agriculture, Animal Science Concentration:**

NOTE: Students may take ANSC 5303 Special topics or up to 6 hours of graduate level coursework from NRM and substitute those hours in place of a course listed above. Courses may not be applied toward a Master's degree after six years from the date of completion.

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## **M.AG., NATURAL RESOURCE CONSERVATION**

### **Overview:**

Students who choose the online Master of Agriculture in Natural Resource Management will complete 30 hours of graduate course work. Because it is entirely online, students can complete it from anywhere they have computer and internet access. An internship is suggested, but may be substituted with an additional online class (no record of study or thesis is required). Students with bachelor degrees outside of NRM are encouraged to apply and any leveling work will be decided upon by the student's major advisor. This degree can be completed in 12 months or spread out over several years as preferred by the student.

### **Degree Plan:**

#### **Master of Agriculture in Natural Resource Conservation (non-thesis)**

Fall		Spring	
NRM 5320	3 credit hours	NRM 5321	3 credit hours
NRM 5324	3 credit hours	NRM 5322	3 credit hours
ANSC 5308	3 credit hours	ANSC 5322	3 credit hours
NRM 5327	3 credit hours	NRM 5325	3 credit hours
Total: 9-12 sch		Total: 9-12 sch	
Summer			
NRM 5323	3 credit hours		
NRM 5326	3 credit hours		
NRM 5329	3 credit hours		
NRM 5328	3 credit hours		
Total: 9-12 sch			

#### **Total Credit Hours Required for Master of Agriculture in Natural Resource Conservation: 30**

- On-campus students may substitute up to 9 sch face-to-face NRM graduate courses with advisor approval.
- The current course rotation will allow students to complete a degree in 3 semesters.
- This schedule is subject to change.

Contact Dr. Patricia Moody Harveson, Program Advisor, with questions at [pharveson@sulross.edu](mailto:pharveson@sulross.edu) or 432.837.8826.

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## M.S., ANIMAL SCIENCE

### Overview:

The Animal Science program features an expert faculty across a variety of concentrations, from meat science to animal health/nutritional management to reproductive physiology. Our goal in the Department of Animal Science is to provide the best education and preparation available for professional careers in the animal agriculture industry. We meet this goal with a curriculum solidly grounded in scientific principles emphasizing hands-on experience. Our degrees offer great flexibility to customize the educational needs of our students by providing a number of concentrations. Currently, the Animal Science department offers a Master of Science in Animal Science with thesis (in-residence) and a [Master of Agriculture in Animal Science non-thesis](#) (online) degree options.

The Department of Animal Science is housed in the Everett E. Turner Range Animal Science Center (RAS) on East Highway 90, about a mile east of the main campus. RAS has specialized laboratories and facilities for animal health/nutritional management, animal production, equine science, and meat science, to name a few. The University also maintains animals for teaching and research, including a herd of registered horned Hereford cattle.

The Department of Animal Science offers programs of study leading to the Master of Science (thesis), and Master of Agriculture (non-thesis) degrees, depending on an individual's educational objectives. Programs in Animal Science emphasize, through the mastery of advanced technology, methods of improving and/or better utilizing agricultural resources. The graduate program is designed to prepare students for advanced education (Ph.D.) and/or for careers in teaching, extension service, research, management, and other occupations requiring the higher-level capabilities of resource managers or scientists. GRE scores of 290 (verbal and quantitative) are required for full admission to the M.S. thesis program. Additional requirements for all Master of Science options include a letter of intent, a resume, and two letters of recommendation from outside the department. Departmental GPA requirements are the same as general admission requirements outlined for the university. For the Master of Agriculture degree, admission requirements follow SRSU general admission requirements for graduate studies. The GRE is not required for the Master of Agriculture in Animal Science online program. Offerings in collateral fields enable the student to develop a program tailored to their particular needs and interests

Applications to the Master of Science in Animal Science with thesis (in-residence) and a Master of Agriculture in Animal Science non-thesis (online) degree are accepted year around.

### Degree Plan:

#### Master of Science in Animal Science, thesis

Semester I, Fall		Semester II, Spring	
ANSC 5412	4 credit hours	ANSC 5413	4 credit hours
ANSC 6301	3 credit hours	ANSC Graduate Elective	3 credit hours
ANSC Graduate Elective	3 credit hours	ANSC Graduate Elective	3 credit hours
Total: 10 sch		Total: 10 sch	

## Year II

Semester III, Fall		Semester IV, Spring	
ANSC 5316	6 credit hours	ANSC 6302	3 credit hours
		ANSC Graduate Elective	3 credit hours
Total: 6 sch		Total: 6 sch	

### Total Credit Hours Required:

Final schedule to be determined by major advisor and student. Courses may not be applied toward a Master's degree after six years from date of completion.

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## M.S., BIOLOGY

### Overview:

The Biology program in Alpine focuses on an organismal approach to the life sciences, emphasizing integrated ecological and co-evolutionary studies of plants and animals through field work in the Chihuahuan Desert region. It offers broad training in aspects of biology and prepares students for advanced specialty disciplines. In addition, students can also work toward either life science or composite science teaching certification, or toward an associate certification as a wildlife biologist as set forth by the Wildlife Society, as well as a Bachelor of Science in Biology. The Bachelor of Science can be tailored to field biologist, laboratory-focused biology, and various pre-health professions. The biology program advises for pre-medical, pre-dental, and other pre-health science disciplines. The composite science education track is designed to provide future teachers and educators a broad background in science, with a concentration in the biological sciences. The program also offers courses emphasizing non-game and small game organisms which meet the requirements for certification as a wildlife biologist as set forth by the Wildlife Society and lead to the professional B.S. degree in Biology. The department maintains one of the largest herbaria in Texas, highly regarded vertebrate animal and insect collections, modern greenhouses, and laboratories for microbiology and molecular biology.

### Master of Science in Biology

Students who are accepted into the graduate program in biology may choose from three plans. For Plan I, the degree may be obtained by completing 30 semester credit hours in biology, including the writing of a thesis; Plan II by completing 36 semester credit hours and a "mini thesis;" or Plan II), by completing 36 semester credit hours in biology. Plans I and II require a thesis defense presentation and comprehensive oral exam. For Plan III, both oral and written comprehensive exams are required. Plan III must be approved by the biology faculty. A "mini thesis" is usually a one-semester project. At the discretion of the student and the committee, the department will accept six semester credit hours of coursework in a department other than the major.

## Degree Plan:

### Master of Science in Biology, Thesis track

Please see notes below for Non-Thesis and Mini-Thesis options.

Semester I, Fall		Semester II, Spring	
BIOL 5305	4 credit hours	NRM/BIOL 5413	4 credit hours
NRM/BIOL 5412	3 credit hours	BIOL 6301	3 credit hours
BIOL 5307 or 5407	3-4 credit hours	BIOL 5307, 5311, 5407, 5601, or 5607	3-6 credit hours
Total: 10-11 sch		Total: 10-13 sch	

## Year 2

Semester III, Fall		Semester IV, Spring	
BIOL 5307, 5312, 5404, or 5407	3-4 credit hours	BIOL 6302	3 credit hours
BIOL 5307, 5312, 5404, or 5407	3-4 credit hours	BIOL 5307, 5310, 5407, 5602, or 5607 (if needed)	3-6 credit hours
Total: 6-8 sch		Total: 6-9 sch	

**Total Credit Hours Required for Master of Science in Biology: 30-36 hours**

## NOTES

- BIOL 5307 and 5407 are Special Topic course numbers and may be repeated if topic varies.
  - Non-Thesis and Mini-Thesis tracks differ from the above in that they do not require BIOL 6301 and 6302, and students also must take an additional six credit hour course for a total of 36 hours. Mini-Thesis track still requires the generation of a thesis-like document, but it is to be used as a program-only document.
  - 17 Biology advanced core credits and 13 Biology advanced elective credits (19 advanced electives credits for Non-Thesis and Mini-Thesis tracks).
  - Written or oral comprehensive exam required at end of degree for completion of all tracks.
  - TOTAL HOURS REQUIRED = 30 (36 for Non-Thesis and Mini-Thesis tracks)
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## **M.S., GEOLOGY**

### Overview:

For graduate students, the Geology Program offers a Master of Science-Geology degree that has three tracks or options. Currently the degree is only face-to-face; there is no on-line MS degree.

Students are encouraged to opt for the 30 hour **Thesis Option**. The Thesis Option prepares students for employment as a professional geologist and for future graduate research at the PhD level. This option requires 24 hours of 5000-level courses, and 12 hours of thesis proposal and defense (GEOL 6301 and GEOL 6302). It requires a thesis to be proposed, written, successfully defended, and a comprehensive oral exam (involving the thesis committee only) passed.

Thesis students may change to a 36 hour **Mini-thesis Option**. The Mini-thesis Option prepares students for employment as a professional geologist. This option requires 36 hours of 5000-level

Geology courses. A mini-thesis, usually a one-semester project, must be written, successfully defended, and a comprehensive oral exam (involving the entire Geology faculty and faculty from other disciplines from whom courses were taken) must be taken and passed.

Thesis and Mini-thesis students may change to a 36 hour **Non-thesis Option**. This option requires 36 hours of 5000-level Geology courses. This degree also requires a robust literature review, on a topic approved by a Geology faculty member, and an accompanying paper and presentation. A comprehensive written exam and a comprehensive oral exam (involving the entire Geology faculty and faculty from other disciplines from whom courses were taken) must be taken and passed. The degree plans and suggested course sequence can be viewed in the tabs below (scroll down). Graduate students are not required to go through their Geology academic advisor (Geology Faculty members) for registration. However, it is recommended that they consult with their Geology advisor each semester. Geology advisors use a checklist to advise graduate students on their progress in the degree. Students are encouraged to use the checklists and to be involved in their degree progress.

## Degree Plans:

### Master of Science in Geology, Thesis track

Semester I		Semester II	
GEOL 5334	4 credit hours	GEOL 5000+ Group A,B, or C (see list below)	3-4 credit hours
GEOL 5000+ Group A, B, or C (see list below)	3-4 credit hours	GEOL 5000+ Elective	3 credit hours
GEOL 5000+ Elective	3-4 credit hours	GEOL 6301	3-6 credit hours
<b>Total: 9-11 sch</b>		<b>Total: 9-11 sch</b>	

## Year 2

Semester III		Semester IV	
GEOL 5101	1 credit hour	GEOL 6302	3 credit hours
GEOL 5000+ Group A, B, or C (see list below)	3-4 credit hours		
GEOL 5000+ Elective	3-4 credit hours		
GEOL 5000+ Elective	3-4 credit hours		
<b>Total: 10-13 sch</b>		<b>Total: 3 sch</b>	

## GEOL 5000+ Options

**\*Choose from each group only once\***

Group A:

- GEOL 5306/ 5322/ 5332

Group B:

- GEOL 5308/ 5317/ 5402/ 5403

Group C:

- GEOL 5320/ 5326/ 5328

**Total Credit Hours Required for Master of Science in Geology: 30 – 32\***

\* hours may exceed 30 depending on the combination of 4 hour or 3 hour courses taken.



## Master of Science in Geology, Mini-Thesis track

Semester I		Semester II	
GEOL 5101	1 credit hour	GEOL 5000+ Group A,B, or C (see list below)	3-4 credit hours
GEOL 5334	3 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Group A, B, or C (see list below)	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Elective	3-4 credit hours		
Total: 10-12 sch		Total: 9-12 sch	

### Year 2

Semester III		Semester IV	
GEOL 5000+ Group A, B, or C (see list below)	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Elective	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Elective	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
Total: 9-12 sch		Total: 8-10 sch	

### GEOL 5000+ Options

**\*Choose from each group only once\***

Group A:

- GEOL 5306/ 5322/ 5332

Group B:

- GEOL 5308/ 5317/ 5402/ 5403

Group C:

- GEOL 5320/ 5326/ 5328

**Total Credit Hours Required for Master of Science in Geology: 36 – 39\***

\* hours may exceed 30 depending on the combination of 4 hour or 3 hour courses taken.

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## Master of Science in Geology, Non-Thesis track

Semester I		Semester II	
GEOL 5101	1 credit hour	GEOL 5000+ Group A,B, or C (see list below)	3-4 credit hours
GEOL 5334	3 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Group A, B, or C (see list below)	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Elective	3-4 credit hours		
Total: 10-12 sch		Total: 9-12 sch	

### Year 2

Semester III		Semester IV	
GEOL 5000+ Group A, B, or C (see list below)	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Elective	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
GEOL 5000+ Elective	3-4 credit hours	GEOL 5000+ Elective	3-4 credit hours
Total: 9-12 sch		Total: 8-10 sch	

### GEOL 5000+ Options

**\*Choose from each group only once\***

Group A:

- GEOL 5306/ 5322/ 5332

Group B:

- GEOL 5308/ 5317/ 5402/ 5403

Group C:

- GEOL 5320/ 5326/ 5328

**Total Credit Hours Required for Bachelor of Science in Geology: 36 – 39\***

\* hours may exceed 30 depending on the combination of 4 hour or 3 hour courses taken.

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## **M.S., RANGE AND WILDLIFE MANAGEMENT**

### **Overview:**

The Department of Natural Resource Management offers programs of study leading to the Master of Science (thesis and non-thesis) in Range and Wildlife Management and a [Master of Agriculture \(non-thesis\) degree in Natural Resource Conservation](#). The graduate program is designed to prepare students for advanced education (PhD) and for careers in teaching, extension, research, management, and other occupations requiring the higher level capabilities of a resource manager/scientist.

### **Master of Science, Thesis Option**

Under this option, students will complete 30 hours of graduate course work and complete and defend a thesis. Students will work with a faculty advisor from NRM to develop their research project. When funding is available, a graduate assistantship will be offered as well as funding to conduct the research. These assistantships are often advertised, but other opportunities may be available. Thus, you are encouraged to contact the faculty member you are interested in working with directly prior to your application. This is the most competitive option as funding and research projects are limited.

### **Master of Science, Non-Thesis Option**

Under this option, students will complete 30 hours of graduate course work and a record of study. A small research project will be conducted and a record of study (a comprehensive report) will be submitted to the graduate committee. Students will work with a faculty mentor from NRM to develop this research project. Since external funding is not usually needed, more opportunities are available for this option.

Note: NRM also offers teaching assistantships for some students in our Master of Science (thesis and non-thesis) programs. These assistantships are limited, but offer another means of support while providing students with teaching experience.

### **Degree Plans:**

## Master of Science in Range and Wildlife Management, thesis

Semester I, Fall		Semester II, Spring	
NRM 5412	4 credit hours	NRM 5305	3 credit hours
GEOL 5402	4 credit hours	NRM 5311	3 credit hours
NRM 6301	3 credit hours	NRM 5413	4 credit hours
<b>Total: 11 sch</b>		<b>Total: 10 sch</b>	

Semester III, Summer			
NRM 5302	3 credit hours		
<b>Total: 3 sch</b>			

Semester IV, Fall		Semester V, Spring	
NRM 6302	3 credit hours	NRM 5306 (if GEOL 5402 was not taken during fall)	3 credit hours
NRM Graduate Elective	3 credit hours	NRM 5302	3 credit hours
<b>Total: 3-6 sch</b>		<b>Total: 3-6 sch</b>	

**Total Credit Hours Required for Master of Science in Range and Wildlife Management (thesis): 32**

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## Master of Science in Range and Wildlife Management, non-thesis

Semester I, Fall		Semester II, Spring	
NRM 5412	4 credit hours	NRM 5305	3 credit hours
GEOL 5402	4 credit hours	NRM 5311	3 credit hours
NRM Elective	3 credit hours	NRM 5413	4 credit hours
<b>Total: 11 sch</b>		<b>Total: 10 sch</b>	

Semester III, Summer			
NRM 5302	3 credit hours		
NRM 5304	3 credit hours		
<b>Total: 6 sch</b>			

Semester IV, Fall		Semester V, Spring	
NRM 6302	3 credit hours	NRM 5306 (if GEOL 5402 was not taken during fall)	3 credit hours
NRM Graduate Electives	6 credit hours		
<b>Total: 3-9 sch</b>		<b>Total: 0-3 sch</b>	

**Total Credit Hours Required for Master of Science in Range and Wildlife Management (non-thesis): 32**

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## COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES

The College of Education and Professional Studies recognizes the diverse needs in education and takes advantage of each opportunity to create meaningful learning experiences throughout all our programs. We offer small class sizes in both our traditional and online programs and adult learning techniques to engage students on a personal level. Our excellent faculty prepares students in a vast array of careers and educational endeavors by providing a quality learning environment through lecture, practical application, research, and internships. Our rich academic curriculum empowers students with the skills and confidence needed in today's diverse global communities. We pride ourselves in teaching, being flexible, assisting and advising students.

The College of Education and Professional Studies includes the Departments of Business Administration, Education, Homeland Security and Criminal Justice, Kinesiology, and the Law Enforcement Academy offering Bachelor's and Master's Degrees, as well as certifications and licensures.

### Undergraduate Programs of Study

- [Business Administration](#)
- [Criminal Justice](#)
- [Homeland Security](#)
- [Kinesiology and Human Performance](#)
- The Science of Teaching Reading (STR)
- [Undergraduate Teacher Education Program](#)

### Graduate Programs of Study

- [Master of Business Administration](#)
- Master of Education with the following areas of Emphasis:
  - [Education Program-M.Ed. General](#)
  - [Education Program-M.Ed. General with Alternative Certification](#)
  - [Educational Instructional Technology Program-M.Ed.](#)
  - [Counseling Program-M.Ed. Counseling \(CMH-LPC track\) OR taking additional LPC classes](#)
  - [Counseling Program-M.Ed. Counseling \(school counseling certification track\) OR Certification only](#)
  - [Diagnostician Program-M.Ed. Diagnostician with certification OR Certification only](#)
  - [Leadership Program-M.Ed. Leadership with certification OR Certification only](#)
  - [Reading Program-M.Ed. Reading with certification OR Certification only](#)
  - [Superintendent Certification Program](#)
- [Master of Science in Criminal Justice](#)
- [Master of Science in Homeland Security](#)
- [Master of Science in Health and Human Performance](#)

### Areas of Certification (Education):

- Certify Teacher
- TExES
- Teacher Ed and Professional Certification Application

### Areas of Licensure:

- Athletic Training

## **M.B.A., BUSINESS ADMINISTRATION**

### **Overview:**

The department offers graduate MBA degree options. One option is a one-year full-time program offered in class at the Alpine campus. A second option is a part-time two-year online program offered primarily on an asynchronous basis. Regardless of option, the MBA professors combine their industry experience, academic theory and concepts as well as insight gained from their own research to offer the graduate student insight from both an academic as well as a business practitioner's perspective.

The Master of Business Administration (MBA) program is a strategically designed program preparing individuals to deal with complex issues associated with the dynamic and competitive world of business enterprises. The Common MBA program is designed to enable continuing and effective delivery of the latest trends in business knowledge and organizational practices. More specifically, the MBA “dovetails” with the mission of the university and prepares students to respond appropriately to issues they will encounter across business functions and eventually be prepared to lead a business. This requires that MBA's are adept at developing successful strategies and are well equipped to communicate effectively with various stakeholders while firmly adhering to business practices that are both ethically based and socially responsible. Graduates are imbued with the ability to apply sound business principles to complex and broad ranging areas using relevant information as well as interpretive skills to make informed and thoughtful decisions. As the landscape of business is never static, the MBA at SRSU attempts to provide sufficient exposure to many and varied real-world situations requiring students to apply their knowledge base while adjusting to ever changing market dynamics. These components, when combined with the added benefits of small class sizes, faculty with years of industry experience and student internship opportunities, combine synergistically in creating a formula for success and are what make the MBA at SRSU special. In sum, MBA's are exposed to a learning environment that encourages the proficient use of business tools and techniques that enable the graduate to recognize, respond and adjust quickly and appropriately to market dynamics and environmental changes affecting organizations at regional, national and international levels. In fact, some student comments that bear directly on the breadth and depth of the statement of purpose follow: (1) “I ...really appreciate ... the program you run” – (2) “thank you for an incredible experience throughout the graduate program. I have thoroughly enjoyed my time and learned so much...I (am) honored to be associated with Sul Ross” – (3) “you have been a mentor, a leader and I thank you for giving me the honor to be a student in the MBA program at Sul Ross.”

MBA professors combine their industry experience, academic theory and concepts as well as insight gained from their own research to offer the graduate student insight from both an academic as well as a business practitioner's perspective. The MBA curriculum includes content from economics, finance, marketing, management, accounting, strategy and global business. The Department of Business Administration MBA program attracts people from diverse cultures and often leverages these differences into learning opportunities.

Through these programs, relationships with faculty, students, and alumni are formed that provide lasting professional and personal bonds.

Both the Alpine-based and the online MBA programs impart the latest organizational knowledge and perspectives. Students learn to recognize and define changes critical to organizations regionally, nationally, and globally.

Background or “leveling work” may be required as deemed necessary by the MBA advisor with approval from the department chair and the Dean.

### **Degree Plan:**

## Master of Business Administration

### Year 1

Semester I		Semester II	
ACC 5307 or ACCT 5307	3 credit hours	MGT 5304 or MGMT 5304	3 credit hours
ECO 5303 or ECON 5303	3 credit hours	MKT 5305 or MKTG 5305	3 credit hours
FIN 5306 or FINA 5306	3 credit hours	GBA 5311 or GBUS 5311	3 credit hours
Total: 18 sch		Total: 18 sch	

### Year 2

Semester III		Semester IV	
Upper Level Business Electives	6 credit hours	Upper Level Business Electives	6 credit hours
Total: 6 sch		Total: 6 sch	

**Total Credit Hours Required for Master of Business Administration: 30**

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## **M.ED., GENERAL EDUCATION**

### Overview:

A **Master of Education, General** requires 15 semester credit hours (SCH) from Resource & Electives PLUS 18 semester credit hours (SCH) in the Area of Specialization for 33 total hours. All coursework requires approval of the major adviser and must be completed within a six-year period. Complete information regarding admissions, courses, and requirements may be found in the current University Catalog.

### Contact

#### **Master of Education, General with Alternative Certification**

The M.Ed.-General w/ Alt Cert works in conjunction with the student seeking Texas teacher certification to provide an opportunity to utilize credits obtained toward an advanced graduate degree. The M.Ed. General w/Alt Cert degree consists of 30 credit hours.

All coursework requires approval of the major advisor and must be completed within a six-year period. Complete information regarding admissions, courses, and requirements may be found in the current University Catalog.

### Contact

Dr. Diana Rodriguez  
Advisor  
[drodriguez5@sulross.edu](mailto:drodriguez5@sulross.edu)  
432.837.8433

### Program Coordinators

**Dr. Jeanne Qvarnstrom**  
Alpine Campus  
432.837.8395  
[jqvarnstrom@sulross.edu](mailto:jqvarnstrom@sulross.edu)

**Dr. Miriam Muñiz-Quiz**  
RGC Campuses  
830.703.4842  
[mmuniz-quiz@sulross.edu](mailto:mmuniz-quiz@sulross.edu)

## Degree Plans:

### Master of Education, General with Specialization

#### Year 1

Semester I		Semester II	
ED/EDUC 5316	3 credit hours	EDUC 5301	3 credit hours
ED/EDUC 6308	3 credit hours	Specialization Course	3 credit hours
Specialization Course	3 credit hours	Specialization Course	3 credit hours
Total: 9 sch		Total: 9 sch	

#### Year 2

Semester III		Semester IV	
Specialization Course	3 credit hours	Specialization Course	3 credit hours
Specialization Course	3 credit hours	ED/EDUC 5317	3 credit hours
ED/EDUC 5319	3 credit hours		
Total: 9 sch		Total: 6 sch	

**Total Credit Hours Required for Master of Education, General with Specialization: 33**

NOTES:

Oral or written comprehensive exam required.

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### Master of Education, General with Alternative Certification

#### Year 1

Semester I		Semester II	
ED 5307	3 credit hours	ED 5360	3 credit hours
ED 5310 (8 wk course)	3 credit hours	ED 5322 (8 wk course)	3 credit hours
ED 6313 (8 wk course)	3 credit hours	ED 5361 (8 wk course)	3 credit hours
Total: 9 sch		Total: 9 sch	

#### Year 2

Semester III		Semester IV	
ED 5312	3 credit hours	ED 5305 (8 wk course)	3 credit hours
ED 5300 or ED 5627	3 credit hours	ED 5301 or ED 5627	3 credit hours
Total: 9 sch		Total: 6 sch	

**Total Credit Hours Required for Master of Education, General w/ Alternative Certification: 30**

NOTES:

All students must pass the TExES content prior to beginning the internship or clinical teaching.

Oral or written comprehensive exam required.

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## **M.ED., EDUCATIONAL INSTRUCTIONAL TECHNOLOGY**

### **Overview:**

The **Master of Education with a major in Educational Instructional Technology** is a field of study that investigates the process of analyzing, designing, developing, implementing, and evaluating the instructional environment and learning materials in order to improve teaching and learning. The use of technology in every area of education is only increasing and the skills needed to effectively integrate technology into learning environments are in high demand. This program is designed for those interested in preparing for a future where knowledgeable and technology savvy specialists, instructors and administrators are highly valued and much needed. Future and current educators will gain skills and knowledge allowing them to seek new career paths in education. Opportunities also extend outside of the academic area, such as in the fields of both corporate and military training and instruction. Graduates of the program will have the skills to become K-12 technology coordinators, online distance Ed instructors at the community college and university level, instructional designers, corporate trainers/technology specialists, and more!

### **Contact**

**Dr. Jennifer Miller**

Educational Instructional Technology Coordinator

432.837.8013

[jennifer.miller@sulross.edu](mailto:jennifer.miller@sulross.edu)

### **Degree Plan:**

#### **Master of Education, General with Specialization**

##### **Semester 1**

<b>1<sup>st</sup> 8 Weeks</b>		<b>2<sup>nd</sup> 8 Weeks</b>	
ED 6375	3 credit hours	ED 6376	3 credit hours
ED 6382	3 credit hours	ED 6377	3 credit hours
<b>Total: 6 sch</b>		<b>Total: 6 sch</b>	

##### **Semester 2**

<b>1<sup>st</sup> 8 Weeks</b>		<b>2<sup>nd</sup> 8 Weeks</b>	
ED 6378	3 credit hours	ED 6380	3 credit hours
ED 6379	3 credit hours	ED 6381	3 credit hours
<b>Total: 6 sch</b>		<b>Total: 6 sch</b>	

##### **Semester 3**

<b>1<sup>st</sup> 8 Weeks</b>			
ED 7300	3 credit hours		
ED 6383	3 credit hours		
<b>Total: 6 sch</b>			

**Total Credit Hours Required for Master of Education in Educational Instructional Technology: 33**

### **NOTES:**

Portfolio Defense with ePortfolio and Capstone Action Research Project

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## **M.ED., COUNSELING**

### **Overview:**

The **Master of Education with a degree in Counseling** at Sul Ross State University has prepared graduates for many years to serve in the counseling profession. The Sul Ross Counselor Education Program takes great pride in fully preparing students to be successful in their chosen field of study. Our instructors and professors are all Licensed Professional Counselors and two are Texas Certified School Counselors. Combined, there is over 56 years of graduate teaching experience. Graduates of our counselor education program receive a Master of Education degree with a major in counseling. The program has been recognized as the sixth affordable programs in the United States.

The three tracks available include **School Counseling** which results in students being certified with the state of Texas to serve in school districts as school counselors, a **Clinical Mental Health Counselor** which prepares students to become **Licensed Professional Counselors (LPC)** which is CACREP aligned, and a third track to bridge those who are certified school counselors who desire to become LPCs. Our program is designed to develop knowledge and skills needed to act as facilitators of change and growth for culturally diverse individuals, groups, and organizations, and to prepare them to work as professional counselors in a variety of settings, including:

- Public and private schools
- Colleges and universities
- Mental health agencies
- Community agencies
- Private practice

A Master of Education degree with a major in School Counseling requires a minimum of 48 semester credit hours of approved coursework. A Master of Education degree with a major in Clinical Mental Health requires a minimum of 60 semester credit hours of approved coursework. Classes are offered in a convenient on-line and weekend virtual format. Students may enroll in a maximum of 9 semester credit hours during each fall and spring term, and a maximum of 6 semester credit hours in each of the two annual summer sessions. To be eligible to apply for the school counseling program, potential students must be a certified teacher with two years of teaching experience. Students may join the program at the beginning of any term.

Complete information regarding admissions, courses, and requirements may be found in the current University Catalog and on the Education Website.

### **Contact**

Ronda Hayes, MEd, CSC, LPC-Supervisor  
Counselor Education Program Coordinator

[rhayes@sulross.edu](mailto:rhayes@sulross.edu)

432.837.8170

### **Degree Plans:**

## School Counseling

### Year 1

Fall		Spring	
ED 5307	3 credit hours	ED 6308	3 credit hours
ED 5314	3 credit hours	ED 7323	3 credit hours
Total: 6 sch		Total: 6 sch	
Summer I		Summer II	
ED 6344	3 credit hours	ED 5315	3 credit hours
Total: 3 sch		Total: 3 sch	

### Year 2

Fall		Spring	
ED 7303	3 credit hours	ED 6346	3 credit hours
ED 7302	3 credit hours	ED 5313	3 credit hours
Total: 6 sch		Total: 6 sch	
Summer I		Summer II	
ED 6347	3 credit hours		
Total: 3 sch			

### Year 3

Fall		Spring	
ED 6345	3 credit hours	ED 5322	3 credit hours
ED 7315	3 credit hours	ED 7301	3 credit hours
		ED 7316	3 credit hours
Total: 6 sch		Total: 9 sch	

**Total Credit Hours Required for Master of Education, School Counseling: 48**

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## Clinical Mental Health Counselor and Licensed Professional Counselor

### Year 1

Fall		Spring	
ED 5307	3 credit hours	ED 6308	3 credit hours
ED 5314	3 credit hours	ED 7323	3 credit hours
Total: 6 sch		Total: 6 sch	
Summer I		Summer II	
ED 6344	3 credit hours	ED 5315	3 credit hours
Total: 3 sch		Total: 3 sch	

## Year 2

Fall		Spring	
ED 7323	3 credit hours	ED 7303	3 credit hours
ED 6344	3 credit hours	ED 7315	3 credit hours
Total: 6 sch		Total: 6 sch	
Summer I		Summer II	
ED 6342	3 credit hours	ED 5322	3 credit hours
Total: 3 sch		Total: 3 sch	

## Year 3

Fall		Spring	
ED 6345	3 credit hours	ED 6341	3 credit hours
ED 7320	3 credit hours	ED 7302	3 credit hours
Total: 6 sch		Total: 6 sch	
Summer I		Summer II	
ED 7316	3 credit hours	ED 6347	3 credit hours
Total: 3 sch		Total: 3 sch	

## Year 4

Fall		Spring	
ED 7301	3 credit hours	ED 7317	3 credit hours
ED 7317	3 credit hours		
Total: 6 sch		Total: 3 sch	

**Total Credit Hours Required for Master of Education in Counseling, Clinical Mental Health: 60**

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## [M.ED., EDUCATIONAL DIAGNOSTICIAN](#)

### Overview:

The **Educational Diagnostician** program prepares students for professional certification by the State Board for Educator Certification. Educational Diagnosticians are employed in school districts, hospitals, early intervention centers and contract privately.

Educational Diagnosticians use psychometric testing and other means of evaluation to determine eligibility for special education services. Educational Diagnosticians administer individual standardized test batteries, including intelligence, vocational, achievement, language, and behavioral tests. They also make recommend specific evidence-based interventions to develop Individual Education Plans (IEPs).

### Program Highlights

- 100% online
- Low tuition
- Intensive courses
- Accelerated 18-month completion
- Small teacher to student ratio
- Personalized Program Experience
- No GRE required
- Apply at any Time!

## Contact

Dr. Lisa Sousa

[lisa.sousa@sulross.edu](mailto:lisa.sousa@sulross.edu)

432.837.8173

## Degree Plans:

### Master of Education with Educational Diagnostician Certification

**Fall Start Date M.ED.** (Other start dates available on website)

Fall		Spring	
ED 5307	3 credit hours	ED 6308	3 credit hours
ED 5323	3 credit hours	ED 5306	3 credit hours
Total: 6 sch		Total: 6 sch	

Summer 1		Summer 2	
ED 5321	3 credit hours	ED 5325	3 credit hours
ED 5312	3 credit hours	ED 5320	3 credit hours
Total: 6 sch		Total: 6 sch	

Fall			
ED 6314	3 credit hours		
ED 7318	3 credit hours		
Total: 6 sch			

**Total Credit Hours Required for Master of Education in Special Education with Educational Diagnostician Certification: 30**

### Educational Diagnostician Certification

**Fall Start Date – Certification Only** (Other start dates available on website)

Fall		Spring	
ED 5323	3 credit hours	ED 5306	3 credit hours
ED 5312	3 credit hours	ED 5320	3 credit hours
Total: 3 sch		Total: 3 sch	

Summer 1		Summer 2	
ED 5321	3 credit hours	ED 5325	3 credit hours
Total: 3 sch		Total: 3 sch	

Fall			
ED 7318	3 credit hours		
Total: 3 sch			

**Total Credit Hours Required for Educational Diagnostician Certification Only: 21**

## **M.ED., EDUCATIONAL LEADERSHIP**

### **Overview:**

The **Master of Education, Educational Leadership Program**, at Sul Ross State University prepares teachers to take the next step in their careers by transforming them into instructional leaders on their campus. This entirely online program is one of the oldest online programs in Texas having gone entirely online over fifteen (15) years ago. The program is designed:

- To develop the leadership skills of an instructional leader who can plan, implement, and sustain effective processes and structures to support improved student achievement.
- For teachers who wish to become instructional coaches, instructional coordinators, assistant principals, and principals.

The Program offers three tracks:

### **Master of Education in Educational Leadership with the Principal as Instructional Leader Certification**

For students seeking a master's degree and principal certification

### **Master of Education-Educational Leadership without Certification**

For students seeking a master's degree only

### **Principal as Instructional Leader Certification only**

For students currently holding an approved master's degree and seeking principal certification only

The Master's in Educational Leadership with Principal as Instructional Leadership Certification and Master's in Educational Leadership without certification are both 30 semester credit hour programs. The Certification only program is 27 semester credit hours. A maximum of 12 semester credit hours from similar courses for students already holding a Master's in Educational Leadership may be accepted as transfer credits. To be eligible to apply for the two certification programs, potential students must be a certified teacher with two years of teaching experience. To be eligible for the Master's without Certification Program, potential students must be a certified teacher but the two years teaching experience is not required. Students may join the program at the beginning of the fall, spring, or summer terms.

Complete information regarding admissions, courses, and requirements may be found in the current University Catalog and on the Education website. For more information contact:

### **Alpine Program**

For more information:

432.837.8170

### **RGC Program Coordinator**

Dr. Chris Tresslar

[christopher.tresslar@sulross.edu](mailto:christopher.tresslar@sulross.edu)

830.279.3020

### **Degree Plans:**

## Master of Education in Educational Leadership

### Year 1

Semester I		Semester II	
ED 5332	3 credit hours	ED 7304	3 credit hours
ED 5330	3 credit hours	ED 6312	3 credit hours
ED 7100	1 credit hour	ED 7101	1 credit hour
Total: 7 sch		Total: 7 sch	

### Summer Semester

Summer I		Summer II	
ED 6320	3 credit hours	ED 7309	3 credit hours
ED 5319	3 credit hours		
Total: 6 sch		Total: 3 sch	

### Year 2

Semester III			
ED 5333	3 credit hours		
ED 6315	3 credit hours		
ED 7102	1 credit hour		
Total: 7 sch			

Total Credit Hours Required for Master of Education in Educational Leadership with Certification: 30

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## Master of Education in Educational Leadership

### Year 1

Semester I		Semester II	
ED 5332	3 credit hours	ED 7304	3 credit hours
ED 5330	3 credit hours	ED 6312	3 credit hours
Total: 6 sch		Total: 6 sch	

### Summer Semester

Summer I		Summer II	
ED 6320	3 credit hours	ED 7309	3 credit hours
ED 5319	3 credit hours	ED 5302	3 credit hours
Total: 6 sch		Total: 6 sch	

### Year 2

Semester III			
ED 5333	3 credit hours		
ED 6315	3 credit hours		
Total: 6 sch			

Total Credit Hours Required for Master of Education in Educational Leadership: 30

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## Principal as Instructional Leader Certification

### Year 1

Semester I		Semester II	
ED 5332	3 credit hours	ED 7304	3 credit hours
ED 7100	3 credit hours	ED 6312	3 credit hours
		ED 7101	1 credit hour
Total: 4 sch		Total: 7 sch	

### Summer Semester

Summer I		Summer II	
ED 6320	3 credit hours	ED 7309	3 credit hours
ED 5319	3 credit hours		
Total: 6 sch		Total: 3 sch	

### Year 2

Semester III			
ED 5333	3 credit hours		
ED 6315	3 credit hours		
ED 7102	1 credit hour		
Total: 7 sch			

**Total Credit Hours Required for Principal as Instructional Leader Certification: 27**

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## M.ED., READING

### Overview:

The complete Master of Education Reading Degree program is offered online. Reading Specialists serve in many positions such as central office administrators, campus reading specialists, supervisors of campus reading programs, language arts and reading curriculum designers, and private practitioners. Our reading program addresses reading instruction, the implementation of reading instruction, reading assessment, and language acquisition. It is delivered through Blackboard. All coursework requires approval of the major adviser and must be completed within six years.

Qualifications for certification as a Texas Reading Specialist for students admitted Fall 2019-present:

- Master's degree from an accredited institution of higher education
- Valid Texas Teacher Certification
- Minimum of three years teaching experience in a TEA accredited school
- Score of 260 or higher on the TExES 151 Certify Teacher Practice Exam

Complete information regarding admissions, courses, and requirements may be found in the current University Catalog.

### **Alpine Program Coordinator**

[Dr. Jennifer Miller](#)

[jennifer.miller@sulross.edu](mailto:jennifer.miller@sulross.edu)

432.837.8013

### **RGC Program Coordinator**

[Dr. Gina Stocks](#)

[gstocks@sulross.edu](mailto:gstocks@sulross.edu)

830.279.3031

### Degree Plan:

## Master of Education in Reading

### Year 1

Semester I, Fall		Semester II, Spring	
ED/EDUC 5308	3 credit hours	ED/EDUC 5316	3 credit hours
ED/EDUC 5301	3 credit hours	ED 6318	3 credit hours
Total: 6 sch		Total: 6 sch	

### Summer Semester

Semester III, Summer I		Semester IV, Summer II	
ED/EDUC 6311	3 credit hours	ED/EDUC 6313	3 credit hours
		ED/EDUC 6308	3 credit hours
Total: 3 sch		Total: 6 sch	

### Year 2

Semester V, Fall		Semester VI, Spring	
ED/EDUC 6317	3 credit hours	ED/EDUC 7312	3 credit hours
ED/EDUC 6314	3 credit hours		
Total: 6 sch		Total: 3 sch	

**Total Credit Hours Required for Master of Education in Reading: 30**

NOTES:

Portfolio Defense and Case Study Required

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## **SUPERINTENDENT CERTIFICATION PROGRAM**

### Overview:

The **Superintendent Certification program** prepares students to be fully equipped to enter practice as a school district superintendent; to enter practice as any upper level, central office administrator in any school district; and to take and pass the State of Texas certification exam for superintendents. The superintendent certification program consists of five courses, two in the first semester and three in the second semester. The entire program can be completed in two semesters. Three of the courses provide 3 hours semester credit while the other two provide 4 hours semester credit for each. The third course in the second semester is the practicum course which counts for three hours. The specific practicum requirements are directly related to the Superintendent Standards promulgated by the Texas Education Agency and must be completed under the direct supervision of an onsite mentor who has Superintendent certification in Texas.

The structure of this certification allows students to complete certification requirements in two semesters and all course offerings are in an on-line format. There are no face-to-face classes or class meetings, with the entire program being presented in an asynchronous manner. However, during the practicum course, you will receive three site visit from the practicum university supervisor either virtually in real time or at your site of employment.

### Contact

Dr. Galen Privitt, Program Coordinator  
email: [gprivitt@sulross.edu](mailto:gprivitt@sulross.edu)

Phone: 432-837-8002 or 903-229-9529

## Degree Plan:

### Superintendent Certification Program

Requirements include that the student take the first two listed courses in the first semester; in the second semester, the student will take the first two listed courses AND the third course. Additional requirements for students in the second semester are outlined in the Superintendent Program Handbook and the syllabus for the Internship class which is posted on Blackboard within the Internship course.

Fall Semester		Spring Semester	
ED 7306	3 credit hours	ED 7321	3 credit hours
ED 7408	4 credit hours	ED 7422	4 credit hours
ED 7311	3 credit hours	ED 7311	3 credit hours
Total: 10 sch		Total: 10 sch	

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## M.S., CRIMINAL JUSTICE

### Overview:

The **Master of Science degree with a major in Criminal Justice** is offered to serve the needs of several different groups of students: (1) pre- and in-service criminal justice personnel seeking a career-enhancing education; (2) those interested in teaching or research in the profession or higher education; and (3) those interested in preparing for a doctoral degree. The degree program may be tailored to meet the needs of individual students. This program is a 36-semester credit hour (SCH) degree. In addition to general courses, there are specialized courses for those interested in law enforcement, corrections or professional field activity and research. A large number of electives are available from political science graduate courses for those interested in general public administration or political science perspectives. Graduate level electives are also available from other disciplines with the prior approval of the Graduate Coordinator. All of our graduate course offerings are web-based. Graduate programs in particular cater to the needs of the working professional, allowing 24 hour access, advanced topics and projects, and peer networking with others working in the field.

### Alpine Program Coordinator

Dr. Oguzhan Basibuyuk

[oxb18qh@sulross.edu](mailto:oxb18qh@sulross.edu)

432.837.8166

### RGC Program Coordinator

Dr. Martin Urbina

[murbina@sulross.edu](mailto:murbina@sulross.edu)

830.703.4838

### Degree Plan:

## Master of Science in Criminal Justice

### Year 1

Fall Semester		Spring Semester	
CJ 5318	3 credit hours	CJ 5334	3 credit hours
General Elective	3 credit hours	CJ 5311	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 9 sch		Total: 9 sch	

### Year 2

Fall Semester		Spring Semester	
CJ 5315	3 credit hours	CJ 5325	3 credit hours
CJ 5314	3 credit hours	General Elective	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 9 sch		Total: 9 sch	

**Total Credit Hours Required for Master of Science in Criminal Justice: 36**

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## M.S., HOMELAND SECURITY

### Overview:

The Master of Science degree with a major in Homeland Security serves the needs of students who are (1) pre- and in-service criminal justice personnel seeking a career-enhancing education; (2) those interested in teaching or research in the profession or higher education; and (3) those seeking positions in government service in the many agencies under the Homeland Security umbrella. The degree program may be tailored to meet the needs of individual students. This program is a 36-semester credit hours SCH non-thesis degree. A specialized set of courses has been designed to give the student a well-rounded education in all areas of Homeland Security including crisis management, terrorism, weapons of mass destruction, and immigration issues. A large number of electives are also available from political science graduate courses for those interested in general public administration or political science perspectives. Graduate level electives are also available from other disciplines with the prior approval of the Graduate Coordinator.

### Degree Plan:

## Master of Science in Homeland Security

### Year 1

Fall Semester		Spring Semester	
CJ 5323	3 credit hours	CJ 5334	3 credit hours
CJ 5322, 5328, 5329, 5330, 5336, 5337, 5360, 5361, 5362, 5464, or 5365	3 credit hours	CJ 5340	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 9 sch		Total: 9 sch	

## Year 2

Fall Semester		Spring Semester	
CJ 5322	3 credit hours	CJ 5327	3 credit hours
CJ 5322, 5328, 5329, 5330, 5336, 5337, 5360, 5361, 5362, 5464, or 5365	3 credit hours	CJ 5330	3 credit hours
General Elective	3 credit hours	General Elective	3 credit hours
Total: 9 sch		Total: 9 sch	

**Total Credit Hours Required for Master of Science in Criminal Justice: 36**

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## **M.S., HEALTH AND HUMAN PERFORMANCE**

### Overview:

This fully online graduate program is offered through the Department of Kinesiology and Human Performance leading to the Master of Science in Health and Human Performance (HHP) degree. The HHP program is a thirty (30) hour fast track graduate program to accommodate interested individuals with the desire to work in a health or sports setting. Courses are eight weeks with two courses recommended per eight-week session and four courses per semester. These courses must be selected with the advice and approval of the Program Coordinator. The program is concluded with a six-hour Practicum. No more than twelve (12) hours of graduate transfer work may be counted on the degree.

### Degree Plans:

#### **Master of Science in Health and Human Performance – 1 Year Track**

##### **Semester I**

1 <sup>st</sup> 8 Weeks		2 <sup>nd</sup> 8 Weeks	
KES 5316	3 credit hours	KES 5313	3 credit hours
KES 5315	3 credit hours	KES 5373	3 credit hours
Total: 6 sch		Total: 6 sch	

##### **Semester II**

1 <sup>st</sup> 8 Weeks		2 <sup>nd</sup> 8 Weeks	
KES 5307	3 credit hours	KES 5305	3 credit hours
KES 5312	3 credit hours	KES 5314	3 credit hours
Total: 6 sch		Total: 6 sch	

##### **Semester III**

1 <sup>st</sup> 8 Weeks			
COMP Exam + KES 5609	6 credit hours		
Total: 6 sch			

**Total Credit Hours Required for Master of Science in Health and Human Performance: 30**

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## Master of Science in Health and Human Performance – 2 Year Track

### Year 1

#### Semester I

1 <sup>st</sup> 8 Weeks		2 <sup>nd</sup> 8 Weeks	
KES 5316	3 credit hours	KES 5313	3 credit hours
Total: 3 sch		Total: 3 sch	

#### Semester II

1 <sup>st</sup> 8 Weeks		2 <sup>nd</sup> 8 Weeks	
KES 5312	3 credit hours	KES 5314	3 credit hours
Total: 3 sch		Total: 3 sch	

#### Semester III

1 <sup>st</sup> 8 Weeks			
KES 5315	3 credit hours	KES 5373	3 credit hours
Total: 3 sch		Total: 3 sch	

### Year 2

#### Semester IV

1 <sup>st</sup> 8 Weeks		2 <sup>nd</sup> 8 Weeks	
KES 5307	3 credit hours	KES 5305	3 credit hours
Total: 3 sch		Total: 3 sch	

#### Semester V

1 <sup>st</sup> 8 Weeks			
COMP Exam + KES 5609	6 credit hours		
Total: 6 sch			

**Total Credit Hours Required for Master of Science in Health and Human Performance: 30**

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## COLLEGE OF GRADUATE STUDIES

Greetings from Graduate Studies and welcome as you begin your graduate career.

Sul Ross State University offers a wide range of master's degrees and certifications. Class sizes are small and our faculty mentor and train you for your professional future.

Stop by the Graduate Student Center, located in BAB 104, and take advantage of the resources available to you. Our staff are eager to assist you as you begin your graduate career.

As Dean, I work with the Graduate Council to create policies and disseminate information concerning SRSU's graduate programs, admission requirements, and institutional effectiveness. In conjunction with the academic departments, the College of Graduate Studies establishes guidelines and timelines for the submission of thesis and other master projects.

Go Lobos!

Laura Payne, Ph.D.

Dean of the Graduate Studies  
Sul Ross State University

### **For additional questions contact:**

SRSU Graduate Student Center  
BAB 104  
Box C-6  
Alpine, Texas 79832

Phone: (432) 837-8524  
Fax: (432) 837-8510

### **E-Mail**

[gradcenter@sulross.edu](mailto:gradcenter@sulross.edu)

[Dr. Laura Payne](#)

Dean of Graduate Studies



## COLLEGE OF LITERATURE, ARTS AND SOCIAL SCIENCES

In the College of Literature, Arts, and Social Sciences (**LASS**), we inspire novel and mold-breaking ways of viewing the world.

Including teaching, as well as creative and research activities in the fine arts, history, social sciences, language, literature, and culture, the College works to help understand the world and shape it for the better. This is done by offering thoughtful, diverse, and challenging opportunities to understand and reshape human activities analytically, imaginatively, and creatively.

We promote growth of knowledge and leadership ability as we facilitate the learning of skills relevant to one's development as a person as well as a wide range of employers and industries.

What role do you seek in the world you will learn to create at Sul Ross State University?

**Laura Payne, Ph.D.**

**Dean of the College of Literature, Arts, and Social Sciences  
Sul Ross State University**

### **What do you want to study at Sul Ross?**

We offer 11 majors and 13 minors in the arts, humanities, and social sciences at the undergraduate level. At the graduate level we offer 6 majors in those areas of study.

### **Department of Behavioral and Social Sciences (BASS)**

Undergraduate Majors:

- [History](#)
- [Political Science](#)
- [Psychology](#)
- [Social Science](#)

Undergraduate Minors:

- [Anthropology](#)
- [History](#)
- [Mexican-American Studies](#)
- [Political Science](#)
- [Psychology](#)
- [Women's & Gender Studies](#)
- [Cultural and Diversity Studies](#) – Tentative Fall 2021

Graduate Majors:

- [History](#)
- [Political Science](#)
- [Public Administration](#)

### **Department of Fine Arts and Communication (FA&C)**

Undergraduate Majors:

- [Art](#)
- [Communication](#)
- [Music](#)
- [Theatre](#)

Undergraduate Minors:

- [Art](#)
- [Communication](#)
- Journalism
- [Music](#)
- [Professional Design and Communication](#) – Interdisciplinary with the Department of Languages and Literature
- [Theatre](#)

Graduate Major:

- [Art](#)

## Department of Languages and Literature (L&L)

Undergraduate Majors:

- [English](#)
- [Spanish](#)

Undergraduate Minors:

- [English](#)
- [Professional Design and Communication](#) – Interdisciplinary with the Department of Fine Arts and Communication
- [Spanish](#)
- [Cultural and Diversity Studies](#)—Tentative Fall 2021

Graduate Major:

- [English](#)

## Additional Undergraduate Major in the College:

[General Studies](#)

## Additional Graduate Major in the College:

[Liberal Arts](#) – Directed by the Dean of Graduate Studies

## [M.A., HISTORY](#)

### Overview:

The Master of Arts degree in History offers education beyond formal classroom learning and writing papers. Students on the way to becoming a professional historian are encouraged to join and take on responsibility in professional organizations, present research within and outside of the department, and take part in conferences. Graduate students choose either a thesis option or a non-thesis option.

### Degree Plans:

#### [Master of Arts in History, Non-Thesis Track](#)

##### Year 1

Semester I		Semester II	
HIST 5301	3 credit hours	HIST 5303	3 credit hours
HIST 5310	3 credit hours	HIST 5309	3 credit hours
HIST 5304	3 credit hours	Minor Field	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

##### Year 2

[INDEX](#)

Semester I		Semester II	
HIST 5312	3 credit hours	HIST 5313	3 credit hours
HIST 5313	3 credit hours	HIST 5310	3 credit hours
Minor Field	3 credit hours	HIST 5302	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

**Total Credit Hours Required for Master of Arts in History, Non-Thesis track: 36**

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### Master of Arts in History, Thesis Track

#### **Year 1**

Semester I		Semester II	
HIST 5301	3 credit hours	HIST 5303	3 credit hours
HIST 5310	3 credit hours	HIST 5309	3 credit hours
HIST 5304	3 credit hours	HIST 5302	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

#### **Year 2**

Semester I		Semester II	
HIST 5312	3 credit hours	HIST 5313	3 credit hours
HIST 5313	3 credit hours	HIST 5310	3 credit hours
HIST 6301	3 credit hours	HIST 6302	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

**Total Credit Hours Required for Master of Arts in History, Thesis track: 36**

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## **M.A., POLITICAL SCIENCE**

### **Overview:**

The **Master of Arts degree in Political Science** serves the needs of students who are interested in teaching and research at the college level, who are preparing for political or administrative careers in public or governmental service, who are preparing for careers in secondary education, who are preparing for continued graduate studies, and who, as citizens, simply want to know more about public affairs.

Graduate students explore topics such as the variables that have the highest impact on voter turn-out; the effect of term limits and whether or not they produce a more diverse group of political leaders; if sanctions are an effective tool in foreign policy; how political affiliation influences social behaviors during a pandemic and much more. Students have multiple opportunities to conduct research in areas such as political theory, public administration, public policy, and institutional authority within local, state, national, and international communities.

The program is tailored to meet the needs of the individual student and allows for concentration or specialization in a specific area. For those pursuing the credentials necessary for teaching at the college level, this program allows the ability to acquire enough hours in two teaching fields.

It is possible to complete a Master of Arts degree in Political Science entirely online, allowing

maximum flexibility for students to complete coursework around work, family, and other responsibilities. Thesis and non-thesis options are available, allowing students more control of their academic careers.

The Master of Arts in Political Science degree was ranked in the top 10 of the most affordable political science graduate programs in the 2020 Online U. rankings and as a top 10 program for its flexibility in 2021 by Intelligent.com.

### Degree Plans:

Thesis students must complete 30 semester credit hours of graduate course work consisting of the following:

- Minimum eighteen semester credit hours of graduate course work in Political Science, including PS 5307.
- Thesis courses, PS 6301 -6302.

An additional six semester credit hours of course work from the following:

- HIST 5308 Seminar in European History
- HIST 5310 Seminar in American History
- GBA 5308 Problems in Business Administration
- or other non-Political Science courses from related disciplines as advised by major advisor.

### Master of Arts in Political Science, thesis option

#### Year 1

Semester I, Fall		Semester II, Spring	
PS 5307	3 credit hours	PS 5317	3 credit hours
PS Elective	3 credit hours	PS Elective	3 credit hours
		HIST 5308, 5310 or GBA 5308	3 credit hours
<b>Total: 6 sch</b>		<b>Total: 9 sch</b>	

Summer I			
PS 5313	3 credit hours		
<b>Total: 3 sch</b>			

#### Year 2

Semester I		Semester II	
PS 5311	3 credit hours	PS 6302 Thesis	3 credit hours
PS 6301 Thesis	3 credit hours	HIST 5308, 5310 or GBA 5308	3 credit hours
<b>Total: 6 sch</b>		<b>Total: 6 sch</b>	

## Master of Arts in Political Science, non-thesis option

### Year 1

Semester I, Fall		Semester II, Spring	
PS 5307	3 credit hours	PS 5317	3 credit hours
PS Elective	3 credit hours	PS Elective	3 credit hours
Elective in related discipline	3 credit hours	Elective in related discipline	3 credit hours
Total: 9 sch		Total: 9 sch	

Summer I			
PS 5313	3 credit hours	Elective in related discipline	3 credit hours
Total: 3 sch		Total: 3 sch	

### Year 2

Semester I		Semester II	
PS 5311	3 credit hours	PS Elective or related discipline	3 credit hours
Elective in related discipline	3 credit hours	PS Elective or related discipline	3 credit hours
		Comprehensive Exam	-
Total: 6 sch		Total: 6 sch	

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## MASTER OF PUBLIC ADMINISTRATION

### Overview:

Our society is constantly faced with new and challenging problems. The responsibility for coming up with innovative and effective solutions to those problems often rests with you, those in the front lines of public service—our teachers, doctors, public safety officers, and other public servants.

The mission of the Master of Public Administration program is to elevate the public sector and government service by preparing those interested in careers in public service to handle the varied and growing challenges of the modern world. Not only will you learn about the foundational theoretical approaches and processes of public administration, but you will, more importantly, learn how to conduct research and critically analyze current approaches in order to find the best solutions for society. The Master of Public Administration is designed to meet the needs of individuals currently employed in or preparing for political or administrative careers in public or governmental service. All graduate courses in Public Administration are offered online as web-delivered courses and the degree may be completed entirely online. Required courses are offered in a rotation that allows for students to complete program requirements within one calendar year.

Course work in public administration must be supported by a minimum of 9 to 12 semester credit hours of graduate course work in a related discipline. Students must pass a comprehensive oral examination of the coursework.

### Degree Plan:

## Master of Public Administration

### Year 1

Semester I, Fall		Semester II, Spring	
PS 5307	3 credit hours	PS 5303	3 credit hours
PS 5311	3 credit hours	PS 5310	3 credit hours
Elective in related discipline		Elective in related discipline	3 credit hours
Total: 6 sch		Total: 9 sch	

Summer I		Summer II	
PS 5313	3 credit hours	PS Elective	3 credit hours
Total: 3 sch		Total: 3 sch	

### Year 2

Semester I, Fall		Semester II, Spring	
PS Elective	3 credit hours	PS Elective	3 credit hours
Elective in related discipline	3 credit hours	PS Elective or related discipline	3 credit hours
		Comprehensive Exam	-
Total: 6 sch		Total: 6 sch	

**Total Credit Hours Required for Master of Public Administration: 36**

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## M.A., ART

### Overview:

The Master of Arts in Art is designed for students interested in pursuing a basic level of mastery within a specific art studio or art research field and who may be interested in teaching or research at the college level, those who are preparing themselves for the world of the professional artist, preparing for careers in secondary education, or those who are preparing for continued graduate studies. The Master of Arts degree with a major in Art may be tailored to meet the needs of the individual student by selecting an area of specialization in Studio Art, Art Education or Art History.

The M.A., in Studio Art prepares students to teach and work professionally in the field of art, community art colleges, art museums, and community-based art programs with core outcomes based on standards developed by the National Academy of Schools of Art and Design and the College Arts Association.

All M.A., candidates with a major in an Art Studio area must prepare a proposal and devote three semester credit hours to the preparation of an exhibition of work of a quality suitable for presentation to the public. All MA candidates with a major in an Art Research area must devote six semester hours of credit to research methodology (proposal) and a written thesis according to their area of specialization. The exhibition or thesis option is a requirement for the completion of the Master of Art in Art together with a philosophical statement and the successful completion of both written and oral graduate examinations. The Art Program may, at the discrimination of the student and the committee, accept toward the master's degree six semester credit hours of course work in another area.

## Degree Plans:

### Master of Arts in Art, Studio Art/ Art Education

#### Year 1

Semester I		Semester II	
ART 5304	2-4 credit hours	ART 5304	2-4 credit hours
ART 5306	3 credit hours	ART 5307	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 8-10 sch		Total: 8-10 sch	

#### Year 2

Semester I		Semester II	
ART 5301	1-4 credit hours	ART 5303	1-4 credit hours
Minor Coursework	3 credit hours	ART 5306	3 credit hours
ART 5304	2-4 credit hours	ART 5305	2-4 credit hours
Total: 6-12 sch		Total: 6-12 sch	

**Total Credit Hours Required for Master of Arts in Art: 36**

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### Master of Arts in Art, Art History

#### Year 1

Semester I		Semester II	
ART 5303/5304	2-4 credit hours	ART 5303/5304	2-4 credit hours
ART 5306	3 credit hours	ART 5307	3 credit hours
Minor Coursework	3 credit hours	Minor Coursework	3 credit hours
Total: 8-10 sch		Total: 8-10 sch	

#### Year 2

Semester I		Semester II	
ART 5301	1-4 credit hours	ART 5303	1-4 credit hours
Minor Coursework	3 credit hours	ART 5306	3 credit hours
ART 5303/5304	2-4 credit hours	ART 5305	2-4 credit hours
Total: 6-12 sch		Total: 6-12 sch	

**Total Credit Hours Required for Master of Arts in Art: 36**

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## M.A., ENGLISH

### Overview:

A **Master of Arts in English** meets the needs of students who wish to teach at the high school and community college levels; students who wish to pursue a Ph.D. in English; and students who desire to specialize in creative writing. A variety of options is available to assist students in achieving their objectives including a thesis option in literature or writing, a coursework option, and the major/minor program option.

The MA in English is an online curriculum designed to provide advanced study in literature, creative writing, theory, cultural studies, and pedagogies, among others. Our students prepare to enter teaching fields in dual-credit environments and community colleges, as well as to transition to

doctoral programs. Enjoying both asynchronous and synchronous online classroom environments, our graduates leave the program with an advanced scholarly understanding of the nuances of literature, writing, and theory. We prepare students throughout the program to tailor studies toward their ultimate post-graduate goals, be it in teaching, writing, and/or continued scholarship via assistantship opportunities, research and publication mentorships, and writing, editing, presentation, and publication experiences. Our program brings the beauty and creative inspiration found in the Chihuahua Desert and middle Rio Grande landscapes to our online student environment.

### Alpine Program Coordinator

Dr. Laura Payne  
[lbutler@sulross.edu](mailto:lbutler@sulross.edu)  
 432.837.8744

### RGC Program Coordinator

Dr. Sally Roche  
[smoreman@sulross.edu](mailto:smoreman@sulross.edu)  
 830.703.4837

### Degree Plan:

#### Master of Arts in English, non-thesis track

##### Year 1

Semester I		Semester II	
ENG 5300	3 credit hours	ENG 5302	3 credit hours
ENG 5306	3 credit hours	ENG 5306	3 credit hours
ENG 5307	3 credit hours	ENG 5307	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

##### Year 2

Semester I		Semester II	
ENG 5304	3 credit hours	ENG 5308 (or other ENG elective)	3 credit hours
ENG 5305 (or other ENG elective)	3 credit hours	ENG elective	3 credit hours
ENG elective	3 credit hours	ENG elective	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

**Total Credit Hours Required for Master of Arts in English, non-thesis track: 36**

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## **M.A., LIBERAL ARTS**

### **Overview:**

The **Master of Arts in Liberal Arts** is an individualized program designed for the graduate student who wishes to pursue interdisciplinary studies. Such a program encourages students to consider issues and problems in society, culture, literature, science, art, and/or communication. Students will develop comprehensive contexts for scholarly work and appropriate methodologies for such studies. Graduate students in Liberal Arts may earn a Master of Arts degree by selecting 33 hours of graduate courses from three disciplines (programs) with the approval of their major advisor and committee. Two of the three disciplines must be from the College of Arts and Sciences. The discipline with the greatest number of semester credit hours is required to be a discipline in the College of Arts and Sciences. In addition, students will complete LA 5101 and LA 5301 and may not be taken concurrently.

At the time of entrance into the program each student must complete a degree plan with a Liberal Arts advisor and select a committee based on the student's areas of interest. Leveling work may be required in some disciplines.

Offered in Alpine College of Graduate Studies.

### **Contact**

Liberal Arts Advisor: Laura Payne, Ph.D.

E-mail: [lbutler@sulross.edu](mailto:lbutler@sulross.edu)

### **Degree Plan:**

#### **Master of Arts in Liberal Arts**

##### **Year 1**

<b>Semester I</b>		<b>Semester II</b>	
Discipline 1 courses	3 credit hours	Discipline 1 courses	3 credit hours
Discipline 1 course	3 credit hours	Discipline 1 course	3 credit hours
Discipline 2 course	3 credit hours	Discipline 3 course	3 credit hours
<b>Total: 9 sch</b>		<b>Total: 9 sch</b>	

<b>Summer III, Summer</b>			
Discipline 2 course	3 credit hours		
Discipline 3 course	3 credit hours		
<b>Total: 6 sch</b>			

##### **Year 2**

<b>Semester I</b>		<b>Semester II</b>	
Discipline 1 course	3 credit hours	Discipline 2 course	3 credit hours
Discipline 1 course	3 credit hours	LA 5301	3 credit hours
LA 5101	1 credit hour		
<b>Total: 7 sch</b>		<b>Total: 6 sch</b>	

**Total Credit Hours Required for Master of Arts in Liberal Arts: 37**

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## **COURSE DESCRIPTIONS**

### **COURSE NUMBERING SYSTEM**

The four-digit numbering system is based on the following criteria: The level of the courses is identified by the first digit as follows: freshman, 1; sophomore, 2; junior, 3; senior, 4; and graduate, 5-7. The semester credit hour is identified by the second digit. University and/or departmental codes are identified by the last two digits. Course titles in the academic programs section of this catalog are followed by two numbers in parentheses. The first number refers to the number of lecture contact hours per week; the second refers to the number of laboratory contact hours per week. For example, (3-2) indicates three contact hours of lecture and two contact hours of laboratory each week. Lecture contact hours are the hours per week students are required to spend in contact with faculty in a lecture setting, e.g., class, conference, seminar, individual instruction, private lesson, thesis or dissertation discussion, or independent study. Laboratory contact hours are the number of hours per week that students are required to spend in contact with faculty in an experiential situation, e.g., laboratory clinical, practicum, internship, or student teaching.

### **TEXAS COMMON COURSE NUMBERING SYSTEM**

The prefix and numbers in parentheses immediately after the Sul Ross course prefix and number represent the course equivalent in the Texas Common Course Numbering System.

### **DEVELOPMENTAL EDUCATION COURSES**

Developmental courses (numbered 0100-0999; ED B100, ENG B100, MATH B100) are courses intended for students who lack the necessary skills for entering collegiate level courses. These courses are not considered in determining academic standing. Since these courses are pre-collegiate level, they shall not be used to satisfy any requirement for graduation. These courses are not used for computation of cumulative grade point average for graduation, determination of class standing, eligibility for the Dean's List, or for eligibility for graduation with honors.

### **NON-COURSE BASED OPTIONS (NCBO)**

**NCBO 0111 Tutoring (0-0).** Developmental education students enrolled in a college-level course through differentiated placement receive tutoring support.

**NCBO 0112 Academic Support (0-0).** Developmental education students enrolled in a college-level course through differentiated placement receive academic support.

### **ACCOUNTING (ACC/ACCT)**

**ACC 2301 (ACCT 2301) Principles of Accounting I (3-0).** Accounting concepts and their application in transaction analysis and financial statement preparation; analysis of financial statements; and asset and equity accounting in proprietorships, partnerships, and corporations.

**ACC 2302 (ACCT 2302) Principles of Accounting II (3-0).** Accounting concepts and their application in transaction analysis and financial statement preparation; analysis of financial statements; and asset and equity accounting in proprietorships, partnerships, and corporation. Introduction to cost behavior, budgeting, responsibility accounting, cost control, and production costing. Prerequisite: ACC 2301

**ACC 3330 Intermediate Accounting I (3-0).** Concepts, principles, and practices of accounting with emphasis on determination of income and financial position of business corporations. Prerequisites: ACC 2301 and ACC 2302

**ACC 3331 Intermediate Accounting II (3-0).** Continuation of Intermediate Accounting I. Prerequisite: ACC 3330

**ACC 3332 Cost Accounting (3-0).** The study of cost accounting fundamentals, the purpose of cost accounting—primarily product costing and planning and control; various methods of attaining these goals, such as job order costing, process costing, budgeting, standard costs, profit-cost volume relationships, analysis of variances, contribution approach, relevant costs, and inventory control. Prerequisite: ACC 2302 or ACCT2402

**ACC 3333 Financial Statement Analysis (3-0).** This course provides an integrated approach to accounting. Concepts and issues in all functional areas of accounting are presented. Topics include budget and cost control, accounting data in planning, and policy formulation. Prerequisite: ACC 2302.

**ACC 3334 Governments and Not-for-Profit Accounting (3-0).** In this course, students study the concepts and techniques of fund accounting, and financial reporting for government and not-for-profit agencies including state and local governments, universities, hospitals, and other public sector organizations. Prerequisite: ACC 2302

**ACC 4330 Principles of Taxation (3-0).** Principles of taxation with emphasis upon federal income tax as it applies to individuals. Prerequisite: ACC 2302

**ACC 4332 Advanced Accounting (3-0).** Complex financial accounting problems, including consolidated statements, partnerships and multinational accounting. (Various) Prerequisite: ACC 3331

**ACC 4333 Auditing Principles (3-0).** Principles and problems of auditing financial records with emphasis on procedures; working papers; reports; and the duties and responsibilities of the junior and senior accountants in audits. Prerequisite: ACC 3331.

**ACC 4334 Accounting Information Systems (3-0).** Use of the computer in the processing of business transactions, analysis of accounting information and in auditing. (Various) Prerequisites: ACC 3331 and 4333

**ACC 4336 Ethics for Accountants (3-0).** This course explores business ethical issues and ethical decision-making for the accounting professional. It examines a guidance system, rules, ethical expectations, and ethical pitfalls of the accounting professional.

**ACC 4350 Advanced Readings and Research in Accounting (3-0).** Selected seminar topics in accounting. Prerequisites: ACC 3330, ACC 3331.

**ACC 5307 Accounting for Management (3-0).** The study of accounting as related to problems of making business decisions. Readings, cases and problems dealing with accounting concepts; budgeting and cost control, use of accounting data in planning operation and policy formulation.

**ACCT 3312 Accounting Systems-Quickbooks (3-0).** The study of Accounting Information Systems with an emphasis on the practical use of Accounting Software (Quickbooks). A hands-on approach to the accounting cycle including the following business processes: banking, Customers and Sales; Vendors, Purchases, and Inventory; Employees and Payroll; reports and Graphs. Prerequisites: ACCT 2401, 2402 (SWTJC)

**ACCT 3332 Cost Accounting (3-0).** The study of cost accounting fundamentals, the purpose of cost accounting—primarily product costing and planning and control; various methods of attaining these goals, such as job order costing, process costing, budgeting, standard costs, profit-cost volume relationships, analysis of variances, contribution approach, relevant costs, and inventory control. Prerequisite: ACC 2302 or ACC2402

**ACCT 4330 Individual Income Taxation (3-0).** Principles of income taxation with emphasis on basic individual deductions, exemptions, and losses. Prerequisite: ACCT 2401

**ACCT 5307 Accounting for Management (3-0).** The study of accounting as related to problems of making business decisions. Readings, cases and problems dealing with accounting concepts; budgeting and cost control, use of accounting data in planning operation and policy formulation.

**ACCT 5310 Taxation Business Enterprise: Seminar in Taxation (3-0).** An investigation and analysis of a variety of taxes and their impact on strategic business decisions. The tax implication of alternate business forms such as corporations or partnerships are examined in detail.

## **AGRICULTURAL BUSINESS (AGB)**

**AGB 2302 Agricultural Economics (3-0).** Orientation to the application of economic theory to agribusiness management. Microeconomic principles pertaining to the production and marketing of agricultural products.

**AGB 3302 Agricultural Marketing (3-0).** An overview of the nature and structure of agricultural product markets in the U.S.; agricultural product prices, price determination and price discovery processes; use of commodity futures as a marketing tool.

**AGB 3304 Range Use Economics (3-0).** This course covers all facets of the economics of rangeland management, including grazing management, supplemental feeding and other inputs, balancing multiple species use, and calculating the benefits of range improvement and opportunity costs associated with rangeland use.

**AGB 3310 Special Topics (3-0).** Selected topics in the field of agricultural business. Topics selected according to student interest and need. May be repeated as topics vary.

**AGB 4301 Sustainability & Diversity in Ranch Business (3-0).** This course introduces and develops the idea of sustainability and diversity within the framework of a ranching business. Emphasis will be placed on how sustainability practices and diversity within business can mediate market risks and increase overall income and long term rangeland and economic health.

**AGB 4303 Agri-Business Management (3-0).** Agriculture production as a business. Types of legal organization for farms and ranches, as well as businesses involved in the processing, wholesaling, and retailing of agricultural products. Principles of business management applied to the agri-business with emphasis on factors affecting profits, choice of enterprises, and the efficient use natural, financial and human resources.

**AGB 4308 Natural Resource and Environmental Economics (3-0).** Topics covered will include: an overview of the modern environmental movement, economic impacts of law and regulation including planning, zoning and farm policy, the economics of pollution and recycling, private property and free market conservation with an emphasis on the economic impacts and influences on farm, ranch, and agribusiness decision making processes.

**AGB 4315 Farm and Ranch Records and Accounting (3-0).** A review of the principles of accounting as they apply to the modern farm or ranch. Fundamentals of cost and managerial accounting applied directly to agricultural production at the farm and ranch level: product costing, planning, control, standards and budgeting, and profit-cost volume relationships. This course will emphasize the use and applications of spread sheet programs. Prerequisite: ACC 2301.

## **ANIMAL SCIENCES (ANSC)**

**ANSC 1101 Freshman Seminar (1-0).** Seminar course designed to introduce students to faculty, facilities, and programs in ANRS and introduce students to study skills essential to a successful career. Offered fall and spring.

**ANSC 1419 (AGRI 1419) Introductory Animal Science (3-2).** An introduction to the contributory role of animals to human well-being, with emphasis on fundamental concepts of animal physiology, nutrition, reproduction, growth, lactation, genetics, behavior, and management. The historical and economic structure of global and domestic livestock industries is also presented. Offered fall and spring.

**ANSC 2301 Introduction to Agriculture (3-0).** Course is designed to provide an overview of the agricultural sciences related to the scientific principles and practices of food and fiber production. Also will include examples of current agricultural technologies and applications.

**ANSC 2303 Horsemanship I (1-4).** Students will learn the inherited behaviors, learned behaviors and psychological aspects of behavior modifications used in training horses. Emphasis will be placed on equine handling, grooming, basic training techniques, riding equipment, and safety. Students will learn how to perform basic groundwork and basic riding maneuvers on an assigned school or personal project horse. Fall odd years.

**ANSC 2304 Introduction to Agricultural Education (3-0).** An analysis of evolving concepts and philosophies of agricultural education programs with emphasis upon history, legislation, and principles underlying organization and practice. This course is designed to prepare students for entry or advancement in agricultural occupations and professions, job creation and entrepreneurship and agricultural literacy. Elements of this course includes: (1) explaining relationships of agricultural education to school based programs, (2) the utilization of components to the agricultural education model in promoting supervised agricultural experiences, and (3) identifying recent trends and developments in education and discussing the impact of these events on agricultural education programs.

**ANSC 2305 Meat Animal and Carcass Evaluation (2-2).** Evaluation of carcasses and wholesale cuts of beef, pork and lamb, factors influencing grades, yields and values in cattle, sheep, and swine. Offered fall.

**ANSC 2306 Companion Animal Management (3-0).** A study of the breeds, management, genetics, reproduction, nutrition and diseases of major classes of companion animals.

**ANSC 2308 Horsemanship II (1-4).** Emphasis will be placed on application of actual training young horses and teaching advanced maneuvers to older horses. Students will learn how to utilize advanced training practices and applications to enhance the training and performance of horses.

**ANSC 2311 Problems in Animal Science (3-0).** Individualized instruction in all facets of Animal Science. Course development to meet specific needs of individual students. May be repeated with approval of ANSC Chair. Offered all semesters.

**ANSC 2312 Current Issues in Ag (3-0).** This course is designed to educate students about major issues in agriculture, life sciences, and natural resource sciences and to expose students to a variety of methods used to effectively communicate, inform, and influence decisions about these issues.

**ANSC 2313 Principles of Agricultural Leadership (3-0).** A study in basic vocational education including the following essential elements including concepts and skills relating to self-awareness, academics to vocational education, study habits, productive work habits, attitudes and employability skills, consumer management, occupational awareness and career decision making and associated with diverse human relations and personality development. Vocational Education history and parliamentary procedure will also be included.

**ANSC 2401 Advanced Farrier Training (3-2).** Advanced course in Equine Foot care including: contemporary aspects of hot forging handmade shoes for all uses. It will include contemporary and evolving technologies in shoe and tool making.

**ANSC 3302 Swine Production and Management (2-2).** The course will include study and research in approved production practices for swine. Breeding, feeding, and management will constitute the body of the course. Offered alternate years, fall only.

**ANSC 3305 Horse Production and Management (3-0).** Principles of scientific horse production and application of horse management skills. Topics covered include nutrition, reproduction, health and disease, genetics and selection, and economic aspects of equine enterprises.

**ANSC 3307 Sausage Manufacturing (2-2).** The manufacturing of processed meats. Product formulation, curing, smoking, sanitation, and quality control. Prerequisite: ANSC 3406; will be offered in 8-week format.

**ANSC 3308 Agricultural Statistics (3-0).** Major emphasis is placed upon design, analysis and interpretation of agricultural and biological experimental data. Information presented in this course will include statistical concepts and models, simple tests of significance, analysis of variance, mean separation procedures, and linear regression-correlation analysis. Offered fall and spring. Prerequisite: Math 1314, 1332, 1342 or permission of instructor.

**ANSC 3309 Sheep and Goat Production and Management (2-2).** This course will include study of accepted practices in sheep and goat production and management. To be included: breeding, feeding, and management. Laboratory exercises will be an important portion of the course. Offered alternate years; offered spring only.

**ANSC 3310 Special Topics (3-0).** Selected topics in the field of Animal Science. Topic selected according to student interest and need. May be repeated as topics vary. Offered all semesters.

**ANSC 3312 Equine Exercise Physiology (3-0).** This course is designed to provide students with an understanding of the physiological and environmental factors associated with the athletic performance of horses. This course will cover adaption of the respiratory, cardiovascular, musculoskeletal, thermo-regulatory, and support systems to training and exercise. Conditioning methods and common athletic injuries will also be discussed. Offered fall only. Prerequisites: ANSC 1419, 3311 or 4310.



**ANSC 3313 Equine Lameness and Rehabilitation (3-0).** This course is designed to provide students with an understanding of the common causes of lameness in sport horses. Fundamentals and advanced principles of conformation, biomechanics, injury prevention and physical rehabilitation will be discussed. Emphasis will be placed on current research in the subject area. Offered fall only. Prerequisites: ANSC 1419, ANSC 4310 or 3311

**ANSC 3315 Applied Animal Behavior and Welfare (3-0).** Transdisciplinary study of animal behavior as it relates to the management and well-being of domestic livestock and captive animal species. Special emphasis on human-animal interactions, assessment and standards, and facility design. Prerequisite: ANSC 1419.

**ANSC 3318 Teaching Methods in Agricultural Education (2-2).** Instructional methodology course that focuses on the selection and use of teaching strategies, methods/approaches, and techniques; evaluating learning; and managing learning environments for teaching agricultural subjects in formal educational settings.

**ANSC 3319 Special Populations in Agricultural Education (3-0).** This advanced course will focus on the diverse needs of students for teaching and learning to take place. Special emphasis will be placed on the instruction of agricultural education to populations of students within economic, gender, ethnic, cultural, political and physical differences. Students will discover and use educational theory to examine strategies and plans to overcome problems in their educational occupations. Students will research both legal requirements and expectations that affect what can be done to increase student learning web offered class.

**ANSC 3320 Public Policies in Agriculture (3-0).** An analysis of evolving concepts and philosophies of agricultural and governmental programming, while applying analytical methods and critical thinking skills in assessing the role of politics in policy making. Students can interpret complex and conflicting data and arguments, evaluate alternative courses of action, and anticipate the consequences of policy choices. Students will learn how to find and interpret policy relevant information and to acquire an understanding of the limitations to what government can do about public problems.

**ANSC 3321 Curriculum and Program Planning in Agriculture (3-0).** This course is designed to help students plan, develop, and assess agricultural education curricula in accordance with current standards, and focus on principles and practices used in designing courses of instruction for effective teaching and total program development. Emphasis will be placed on providing information useful to agriculture teachers, extension agents and administrators that might improve the effectiveness of the educational system. Goals of the course include: (1) identifying potential and existing education programs in agricultural education at the middle school, junior high, secondary, post-secondary (adult) and teacher education levels and in extension education; (2) the development and testing of alternative means and methods of improving program components including improving methodological approaches, and (3) the development of curriculum and programs that foster individual and organizational change while building skills and the examination of personal values and belief.

**ANSC 3402 Beef Cattle Production and Management (3-2).** The course will be divided into the areas of history, breeding, feeding, and management of beef cattle. Range laboratory exercises will be an integral part of the course. Offered fall only.

**ANSC 3405 Special Topics (4-0).** Selected topics in the field of Animal Science. Topic selected according to student interest and need. May be repeated as topics vary. Offered all semesters.

**ANSC 3406 Meat Science (3-2).** A course designed to teach the basic physical and chemical components of meat tissues, as well as, quantitative and qualitative attributes of meat and meat products, including processing, manufacturing, distribution, and preservation principles of meat production. Students will develop technological and manipulative skills in the slaughter and cutting of meat animals and the processing of meat products. To re-introduce anatomy, muscle structure and function, chemical composition and physical characteristics of carcasses and cuts as determinants of live animal and meat quality. Students will learn the skills of carcass identification and grading to facilitate descriptions and definitions of quality and curability in meat animal products. Prerequisites: ANSC 3410 or 3311

**ANSC 3410 Anatomy & Physiology of Domestic Animals (3-0). QEP MAPPED COURSE** An Introduction to basic anatomy and physiology, focusing on domestic animals. Topics will range from cell biology through organ systems and include both anatomy and physiology within the systems and total body interaction. Students will learn to apply content from the course by working through clinical case studies focused on animal health. Labs will include animal dissection to further illustrate the principles being taught in the course. Prerequisite: ANSC 1419

**ANSC 3411 Livestock Slaughter Inspection (3-2).** The content of this course deals with federal and state regulations pertaining to livestock slaughter for human consumption. Laboratory training will be given to promote proficiency in meat inspection procedure. Offered alternate years; offered spring only.

**ANSC 3416 Livestock and Wildlife Nutritional Management (3-2).** Provide a thorough understanding of feeds and nutrients, their classifications and an introduction to how animals digest and absorb nutrients. Animal species will be discussed individually and how rations vary and are formulated depending on stage of life or production. Both computer and hand diet formulation will be practiced. Prerequisite: 1419 or NRM 2330 or instructor consent.

**ANSC 4300 Meat Technology (2-2).** This course is designed to educate students about the global product that is meat and to expose students to a variety of methods and technologies used to critically evaluate producers, manufacturers, transporters, and retailers issues and effectively communicate, inform, and influence decisions made about these issues. Additionally, this course explores the impacts of consumer issues on the meat animal industry and food supply chain. Prerequisites ANSC 3406 or 2406.

**ANSC 4302 Food and Meat Safety (3-0).** This course is designed to educate students about Food and Meat safety; food borne pathogens; hazard analysis critical control points (HACCP) and total quality management (TQM) practices. We will identify and evaluate potential human health problems from bacterial pathogens; Study the behavior of pathogenic bacteria (e.g., Escherichia coli O157:H7, non-O157 Shiga Toxin-producing E. coli, Listeria monocytogenes, Salmonella and Campylobacter) in foods. We will also study how to reduce the incidence of foodborne illness by developing procedures, techniques, and effective interventions for pathogen reduction and control throughout the food chain; Study the molecular ecology and transmission dynamics of human food borne pathogens; Probe the molecular pathogenesis of human food borne diseases. Examine animal identification and traceability systems for prevention/control of spread of foreign animal diseases, foodborne pathogen outbreaks and agricultural/food bioterrorism. Prerequisite: ANSC 2406



**ANSC 4303 Meat Fabrication (2-2).** This course is designed to educate students about the global product that is meat and to expose students to meat fabrication as part of the culinary arts will find this course informational. Meat fabrication is breaking down the body of an animal into consumer cuts and boned meat. We aim to educate students to gain a holistic concept of cooking that they could not get simply from picking up a pack of meat at the grocery store or butcher shop.

**ANSC 4304 Reproductive Physiology (3-0).** Study of anatomical and physiological process of reproduction in domestic animals and wildlife. Offered fall.

**ANSC 4305 Agricultural Genetics (3-0).** Quantitative genetic principles applied to mating and selection of domestic livestock, wildlife, and range plants. The course integrates Mendelian principles with biomedical and statistical probability techniques for proper application to breeding, selection, inbreeding, line breeding, and pedigree information for progressive animal and plant breeding. The influences of gene frequency, heritability, and genetic relationships on the gene pool of populations is integrated into this course. The course includes application of the Hardy-Weinberg law and statistical correlation and regression as applied to selection of superior genetic lines of plants and animals. Offered fall only.

**ANSC 4306 Animal Health and Diseases (3-0). QEP MAPPED COURSE** Introduction to the basic principles of epidemiology with special reference to the pathogenesis of diseases in the animal population; description of the role of the animal scientist, veterinarian and farm manager in the control of diseases.

**ANSC 4307 Ultrasonography and Reproductive Techniques (3-0).** Evaluation and application of various techniques to control and determine reproductive functions in livestock. Ultrasonography an assisted reproductive techniques to eliminate infertility and achieve pregnancy in domestic animals.

**ANSC 4308 Animal Nutrition (3-0).** Physiology and chemistry of digestion, absorption and metabolism of nutrients by animals will be discussed, including requirements, utilization, and the effects of deficiencies and toxicities. Prerequisites: ANSC 1419, CHEM 1311, 1312, 4307, or permission of instructor.

**ANSC 4309 Meat Que'Linary West Texas Barbecue (3-0).** This course is designed to educate students using surveys, demonstrations, and participating in a class celebrating the rich heritage of American Barbecue. We will explore Texas Barbecue; preparation techniques which includes types of meats, seasonings, and cooking methods with emphasis of meat in the diet and food safety, cost and availability. Emphasis will focus on regional cuisine and international methods to compare to the U.S.

**ANSC 4310 Artificial Insemination of Farm Animals (2-2).** History, importance and implications of artificial insemination; advantages and limitations of its use in farm animals. Various methods of collection are studied; evaluation of semen, dilution and storage of semen and techniques of insemination are covered. Offered summer only.

**ANSC 4311 Problems in Animal Science (3-0).** Individualized instruction in all facets of Animal Science. Course developed to meet specific needs of individual students. May be repeated with approval of ANSC Chair. Offered all semesters. Prerequisite: Approval of ANSC chair.

**ANSC 4314 Forage Production and Management (3-0).** Concept and practical aspects of forage production, with emphasis on the southern half of the United States. Forage management and forage species and a review of grazing systems for differed species of livestock will be covered in the course. The practical application of knowledge will be stressed in this course with multiple real-life case studies being covered.

**ANSC 4315 Hormones, Behavior and Diseases (3-0).** The influence of hormones on sexual and nonsexual behavior and development of diseases in domestic animals, wildlife and humans.

**ANSC 4316 Ruminant Nutrition (3-0).** Physiology and chemistry of digestion, absorption and metabolism of nutrients in ruminants; nutrient functions, requirements, utilization and the effects of nutrient deficiencies and toxicities. An emphasis will be placed on ruminant specific metabolism and the net energy system. Prerequisite: ANSC 3311 or 3410

**ANSC 4317 Senior Capstone (3-0).** This course provides senior animal science students with an opportunity to reflect upon the animal science course of study and to synthesize the material learned throughout their coursework. This course prepares students to enter the workforce.

**ANSC 5303 Special Topics (3-0).** Advanced studies in current agricultural and natural resource sciences research. Topics assigned according to the experience, interest, and needs of the individual student. Registration approval by the ANSC chair. May be repeated under different subject matter titles.

**ANSC 5304 Forage Production and Management (0-6).** Concepts and practical aspects of forage production, with emphasis on the southern half of the United States. Forage Management and forage species and a review of grazing systems for differed species of livestock will be covered in the course. The practical application of knowledge will be stressed in this course with multiple real-life case studies being covered.

**ANSC 5306 Protein and Amino Acid Metabolism (3 -0).** This course is designed to continue the nutrition education with an emphasis on biochemical pathways and metabolic control of nutrient partitioning related to protein and amino acid metabolism. Urea cycle, glutamine metabolism, methionine cycle and additional metabolic pathways will be discussed.

**ANSC 5308 Principles of Teaching Adult Learners (3-0).** This course covers a broad range of topics in the field of adult education. The purpose is to further the development of adult educators; therefore, the course focuses on theories, methods, and issues in adult education.

**ANSC 5312 Biostatistical Analysis I (2-2).** An introduction to statistical concepts and models applied to agricultural and biological systems. The course introduces the scientific method, inferential theory, data types, descriptive statistics, goodness of fit, contingency tables, the normal distribution and one- and two-sample hypothesis testing. Emphasis will be placed on data analysis and interpretation using computer statistical applications. Offered Fall.

**ANSC 5314 Advanced Endocrinology (3-0).** Structure and function of endocrine glands and how their secretions regulate biochemical reactions, integrate tissue and organ systems, and control behavior.

**ANSC 5315 Advanced Reproductive Techniques (3-0).** Detailed study of the various techniques to control and determine reproductive functions in domestic and nondomestic species. Techniques

covered will include semen collection, evaluation and freezing; super ovulation, oocyte-embryo collection, in vitro oocyte maturation, sperm capacitation, in vitro fertilization, embryo culture, embryo micromanipulation, embryo freezing and transfer; and ultrasonography.

**ANSC 5316 Project Research (1 to 9-0).** Research for thesis project. Prerequisite: Master of Science students that have been admitted to candidacy. May be repeated.

**ANSC 5317 Implementing Change (3-0).** This course examines the processes by which professional change agents influence the introduction, adoption, and diffusion of technological changes.

**ANSC 5320 Advanced Livestock Nutritional Management (3-0).** Provide a thorough understanding of feeds and nutrients, their classifications and an introduction to how animals digest and absorb nutrients. Animal species will be discussed individually and how rations vary and are formulated depending on stage of life or production. Ration balancing by hand and using computer programs will be covered in the class.

**ANSC 5321 Animal Science Business Planning (3-0).** This course lays out the basic theory of microeconomics with numerous examples from the food and agricultural industries, while the coverage of macroeconomics emphasizes real world applications rather than pure theory.

**ANSC 5322 Statistics for the Animal Sciences (3-0).** This course emphasizes statistical literacy, use of real data and technology, statistical conceptual understanding and active learning.

**ANSC 5323 Research Literature (3-0).** This course guides the student, step-by-step, from the selection of a problem, through the process of conducting authentic research, to the preparation of completed report, with practical suggestions based on a solid theoretical framework.

**ANSC 5324 Animal Physiology (3-0).** The course is designed to expand upon the basic principles of anatomy and physiology of farm animals, emphasizing ruminant and equine digestive physiology. Individual systems will be discussed as well as topics from current scientific discussions and publications.

**ANSC 5325 Agricultural Genetics and Biotechnology (3-0).** This course provides a student with solid grounding in core genetics and biotechnology concepts, as well as information on cutting-edge science and technology and their applications in real-world agriculture, medicine, and health care.

**ANSC 5326 Animal Reproduction (3-0).** Study of the anatomical, cellular and physiological mechanisms that control the endocrine and reproductive systems of domestic animals and wildlife.

**ANSC 5327 Animal Nutrition (3-0).** This course is designed to continue the nutrition education with an emphasis on biochemical pathways and metabolic control of nutrient partitioning. Glycolysis, TCA cycle, Urea cycle, Gluconeogenesis, and additional metabolic pathways will be discussed as well as nutrient metabolism and ruminant specific metabolism related to VFAs.

**ANSC 5328 Meat Production (3-0).** This course is designed to educate students about the global product that is meat and to expose students to the conversion of muscle to meat with emphasis on physical and biochemical changes. Microbiology and other related characteristics of meat and its implication in commercial meat processing. A course designed to teach the advance physical and chemical components of meat tissues, as well as, quantitative and qualitative attributes of meat and meat products, including processing, manufacturing, distribution, and preservation principles of meat production. Students will understand technological and manipulative skills in the slaughter and cutting of meat animals and the processing of meat products. To further discuss anatomy, muscle structure and function, chemical composition and physical characteristics of carcasses and cuts as determinants of live animal and meat quality.

**ANSC 5329 Animal Breeding (3-0).** Advanced topics in breeding animal selection using scenario-based techniques and animal data to optimize production systems. Breeding plans of all livestock species including rotational and terminal crosses and the use of crossbreeding advantages of heterosis and breed complementarity. Additionally, heritability estimates and economically important traits will be focused on.

**ANSC 5331 Ruminant Nutrition (3-0).** Physiology and chemistry of digestion, absorption and metabolism of nutrients in ruminants; nutrient functions, requirements, utilization and the effects of nutrient deficiencies and toxicities. An emphasis will be placed on ruminant specific metabolism and the net energy system.

**ANSC 5403 Special Topics (4-0).** Advanced studies in current agricultural and natural resource sciences research. Topics assigned according to the experience, interest, and needs of the individual student. Registration approval by the ANSC chair. May be repeated under different subject matter titles.

**ANSC 5413 Biostatistical Analysis Applications (2-4).** An advanced course in statistical concepts and models applied to agricultural and biological systems. Emphasis will be placed on data analysis and interpretation using computer statistical applications. The course applies all null hypotheses significance testing (NHST) procedures taught in ANSC 5312, first in Program SPSS, then in Program R after a thorough overview of R programming. NHST theory for these advanced scenarios will also be introduced and applied in R; Generalized Linear Models (GLMs) including Poisson regression, dichotomous variables, binomial distribution, and proportion testing and logistic regression, Generalized Linear Mixed Models (GLMMs); and circular distributions. Offered spring. Prerequisite: ANSC 5312 or permission of instructor.

**ANSC 6301 Thesis Proposal (0-6).** Satisfactory completion of this course will result in an acceptable prospectus presented to the Graduate Committee.

**ANSC 6302 Thesis Defense (0-6).** The student will enroll in this course each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made. Satisfactory completion of this course will result in the completed thesis presented to the Graduate Committee, accepted by the ANRS dean, and filed in the Office of the Executive Vice President and Provost for Academic Affairs.

## **AGRICULTURAL BUSINESS (AGB)**

**ANTH 1301 (ANTH 1301) Cultural Anthropology (3-0).** A survey of the study of cultural anthropology, including the nature of culture in space and time, human subsistence and settlement, social and political organization, ritual and religion, and linguistics. The course will include an overview of the adaptations of human populations to arid regions.

**ANTH 1302 (ANTH 1302) Introduction to Archeology (3-0).** An introduction to the history, development, techniques, and underlying principles of archeological sciences. The focus of the class is on archeological methodology and theory as practiced within a framework or interdisciplinary research, and as viewed from both scientific and humanistic perspectives.

**ANTH 2301 Archeology of Texas and Northern Mexico (3-0).** An introduction to Native American prehistory from 10,000 B.C. through early contact with Spanish entradas during the sixteenth and seventeenth centuries A.D. in Texas and north-central Mexico. The course will explore basic archeological theory, data collection, and analytical techniques used in the reconstruction of life ways of nomadic, semi-sedentary, and sedentary human populations through time.

**ANTH 2302 Environmental and Cultural Diversity (3-0).** This course examines the dynamic interplay between environment and culture among prehistoric, historic, and contemporary peoples on a global basis. Ethnographic studies are used to facilitate comparative analysis of cultures in both similar and widely differing environmental settings, from Arctic tundra to shifting sands of the Sahara. Emphasis is on the study of present-day “simple” societies, and includes evaluation of the use of analogy in reconstructing life ways of extinct cultures.

**ANTH 2303 Readings and Research (3-0).** Selected readings and research projects to be offered as individual study to meet student’s needs. May be repeated for credit.

**ANTH 3301 Laboratory Techniques in Archeology (3-0).** Provides practical experience on the conceptualization, design, and conducting of archeological projects, with emphases on techniques of laboratory analysis, data quantification, analogy, and the interpretation of findings.

**ANTH 3601 Summer Archeological Field School (0-6).** An intensive six-week summer field course that provides hands-on training for students in archeological field and analytical techniques, including site survey and recording, instrument mapping, site testing and evaluation, controlled excavation, and field laboratory techniques: Location to be announced. Prerequisite: Anthropology 2301 or consent of instructor. Field school fee: \$175 – \$1800

**ANTH 4308 Readings and Research in Anthropology (3-0).** Selected readings on research projects to be offered as individual study to meet student needs. May be repeated once for credit with departmental approval.

**ANTH 4311 Special Topics in Anthropology (3-0).** Special courses on topics not included in the regular curriculum. May be repeated for credit with departmental approval.

## **ART (ART)**

**ART 1301 (ARTS 1301) Art Appreciation (3-0).** An introductory course leading to an understanding of the Visual Arts.

**ART 1303 (ARTS 1303) Art History I (3-0).** A survey of the art and architecture of the Western World from prehistoric times through the Gothic Period.

**ART 1304 (ARTS 1304) Art History II (3-0).** A survey of the art and architecture of the Western World from the Early Renaissance to the contemporary period. Qualifies for general education credit.

**ART 1311 (ARTS 1311) Design I (2-4).** An introduction to the fundamentals of two-dimensional design.

**ART 1312 (ARTS 1312) Design II (2-4).** Three-dimensional design and color theory. (May be taken before Design I)

**ART 1316 (ARTS 1316) Drawing I (2-4).** An introduction to drawing fundamentals with stress upon observations and techniques involving various drawing media.

**ART 1317 (ARTS 1317) Drawing II (2-4).** Continuation of drawing skills and techniques as begun in Drawing I (1316) with emphasis on compositional skills. Prerequisite: ART 1316.

**ART 2304 Independent Study in Art (2-4).** Independent investigation into an art subject area: i.e. in only one area such as painting, drawing, digital art, animation, 3D graphics, sculpture, design, ceramics, printmaking, jewelry, fibers or art education. May be repeated for different subject areas.

**ART 2313 (ARTS 2313) Design Communications I (2-4).** Understanding how to use the fundamentals of design such as line, shape, color, texture, and typography to create posters, logos, and other visual needs for clients.

**ART 2316 (ARTS 2316) Painting I (2-4).** Exploring opaque painting media (oil or acrylic) with emphasis on color and composition.

**ART 2323 (ARTS 2323) Life Drawing I (3-2).** Advanced drawing class that involves drawing fundamentals in relationship to the human form with stress on observation and human anatomy. May be taken for up to nine hours of credit. Each semester of work is progressively more advanced than the previous semester. Prerequisite: ART 1316.

**ART 2326 (ARTS 2326) Sculpture I (2-4).** Exploratory studies in the principles, materials, and techniques of sculpture. (ARTS 2326)

**ART 2346 (ARTS 2346) Ceramics I (2-4).** An introduction to basic ceramic processes, including wheel throwing, hand building, glazing and firing.

**ART 2347 (ARTS 2347) Ceramics II (2-4).** A further exploration of intermediate ceramic processes, including wheel throwing, glazing and kiln firing. Prerequisite: ART 2346.

**ART 2366 (ARTS) Watercolor I (2-4).** Exploring transparent painting media (watercolor or tempera) with emphasis on methods and techniques.



**ART 3301 Art Studio Concentration (2-4).** First level of advanced investigation into a studio art subject area such as drawing and painting, ceramics, sculpture, printmaking, animation, 3D graphics, or digital art. The course may be repeated for credit up to three times in an area of specialization. Student will need to discuss their artistic background with the instructor.

**ART 3302 Printmaking (2-4).** An introduction to the basic printmaking processes including calligraphic, intaglio, stencil, and relief.

**ART 3303 Art Theory and Practice for Children and Adolescents (2-2).** This course is a survey and analysis of the theories and practices of teaching art to children and adolescents. Topics include artistic development, art programming content, philosophies, methodologies, objectives, and assessment with a survey of advanced methods related to the understanding of aesthetics achievement in the secondary art programs. This course is required for are education majors.

**ART 3304 Fused and Slumped Glass (2-4).** This course is an introduction to fused and slumped glass experienced through artistic means. Students will learn glass studio practice, safety, glass cutting techniques, kiln operation and maintenance.

**ART 3308 Contemporary Art History (3-0).** A survey of painting, sculpture, architecture, and other arts from Post-Impressionist to Contemporary Period.

**ART 3309 Crafts (2-2).** An introduction to art theories and methods governing the teaching of craft activities in the classroom. Required for Art Education majors.

**ART 3310 Special Topics (3-0).** Topics to be selected from history and literature of art, traditional and studio art, art in the general culture, techniques of teaching art in the public schools, or other topics in the field of art. (May be repeated for credit when topic varies.)

**ART 3317 Handmade Ceramic Tile (3-3).** An exploration in the designing, making and decorating of handmade ceramic tile. Students will design and create tiles using the slab method as well as the hand pressed method to create a body of original tile that can be used in table tops, counter tops or any other tile application. Prerequisite: Ceramics I, Design I or permission of the instructor.

**ART 3323 18th and 19th Century Art (3-0).** A survey of the art and architecture of the 18<sup>th</sup> and 19<sup>th</sup> centuries. This course may focus on a particular subject or topic of art of the 18<sup>th</sup> and 19<sup>th</sup> centuries, including but not limited to, the Rococo, Neoclassicism, the Art of the Academy, Romanticism, French Realism and Impressionism. May be repeated for credit as the topic varies.

**ART 4301 Advanced Studio Concentration I (2-4). QEP MAPPED COURSE** Second level of advanced investigation into a studio art subject area such as drawing and painting, ceramics, sculpture, printmaking, animation, 3D graphics, or digital art. These classes develop formal competence in the technical mastery of materials. Comprehensive compositional and formal skills, expressive characteristics in the visualization of ideas and innovative formal considerations.



**ART 4302 Advanced Studio Concentration II (2-4).** Advanced investigation into a studio art subject area; i.e., drawing and painting, ceramics, sculpture, printmaking, animation, 3D graphics, or digital art. These classes develop formal competence in the technical mastery of materials, comprehensive compositional and formal skills, expressive characteristics in the visualization of ideas and innovative formal considerations. A formal proposal for the development of a senior capstone exhibition is developed in this class before the student enters exhibition. The course may be repeated for credit two times in an area of specialization. Prerequisite: ART 4301

**ART 4303 Capstone Exhibition (2-4).** Students will complete the project proposed in the last semester of ART 4302. This course is to be taken as the final course for the Bachelor of Arts, and students may receive an I until the exhibition is completed. Prerequisite: 12 hours of studio specialization

**ART 5301 Curriculum Enrichment (1-4).** Seminar in the problems unique to university teaching problems. Students meet as a group to do peer review and professional practices and also work independently with a selected instructor in a class specific to their discipline. Prerequisite: must have passed undergraduate class in same area of specialization or permission of instructor.

**ART 5303 Individual Research Problems (1-4).** Designed for students who are prepared to do research within a visual arts specialization area. The course may be repeated for credit up to four times with number designate for area of specialization. Prerequisites: must have passed upper level undergraduate class in the same area of specialization.

**ART 5304 Graduate Art Studio I (2-4).** Designed for students who are prepared to do work in any visual arts areas of specialization. The course may be repeated for credit up to four times with letter number designate for area of specialization. Prerequisite: Must have passed upper level class in same area of specialization.

**ART 5305 Master's Exhibition (2-4).** Students will complete the project proposed in the last semester of ART 5304. This course is to be taken as the final course for the Master of Arts, and students may receive an I until the exhibition is completed. Prerequisite: 12 hours of 5304 in a studio specialization

**ART 5306 Art History (3-0).** Study of the visual arts of the world. The course may be repeated for credit where topic varies.

**ART 5307 Contemporary Art History (3-0).** A survey of the visual arts of the world with emphasis on the development of architecture, sculpture, painting and the minor arts in the Twentieth Century.

**ART 6301 Thesis Proposal (0-6).** Satisfactory completion of this class will result in an acceptable proposal for an art research thesis presented to the graduate committee. A student will normally register for this course after the second semester of graduate work in art history. The student should only enroll in this class when the committee members are available to work with them and the library or other research facilities are available for their use.

**ART 6302 Thesis Defense (0-6).** The student will enroll in this course each semester or summer term when the committee members are available to work with them and the library or other research facilities are available for their use. Satisfactory completion of this course will result in the completed thesis presented to the committee, accepted by the Dean of the College of Arts and Sciences and filed in the office of the Provost and Vice President for Academic and Student Affairs.

## **ART COMPUTER (ARTC)**

**ARTC 2331 Introduction to Animation (3-3).** This course will introduce students to traditional animation techniques by using Toon 21 Boom's Animate software and by studying notable historic examples of animation. Basic animation principles will be taught via presentations and reinforced through many practical exercises.

**ARTC 3332 Advanced Two-Dimensional Imaging (3-3).** Students will use Adobe Illustrator and Adobe Photoshop to create and manipulate digital imagery. Presentations and hands-on demonstrations will help reinforce ideas and techniques used to create digital imagery. Prerequisite: CSAT 2310 or FA 2302

**ARTC 3333 User Interface Design (3-0).** A hands-on and lecture based design course exploring human-computer interface applications such as app and website design. Note that this course focuses only on design, not programming.

**ARTC 3334 Introduction to Maya (3-3).** This course introduces students to the techniques and concepts used to create 3-dimensional graphics using Autodesk's Maya. Students will learn how to build, light, and animate 3-dimensional objects for use in gaming and animation.

**ARTC 3340 Advanced Animation (3-3).** This course is a further study of frame-by-frame animation where students continue to develop their skills through examples and projects. Prerequisite: ARTC 3334.

**ARTC 4303 Advanced Maya (3-3).** Further study of Maya to create 3-dimensional graphics. Students will refine the creation, lighting, texture, and animation of their 3-D objects. Prerequisite: ARTC 3334.

## **ASTRONOMY (ASTR)**

**ASTR 1103 (ASTR 1103) Stars and Galaxies Laboratory (0-2).** Laboratory includes instruction in the university planetarium as well as telescopic observations. Lab fee: \$8

**ASTR 1104 (ASTR 1104) Solar System Laboratory (0-2).** Laboratory includes observations of the night sky and solar objects with various university telescope systems. Lab fee: \$8

**ASTR 1303 (ASTR 1303) Stars and Galaxies (3-0).** A descriptive, non-mathematical course that deals mainly with stellar and galactic astronomy, but begins with a brief survey of the solar system. Emphasis is on the study of properties of stars, star clusters, nebulae, interstellar gas and dust, the Milky Way galaxy, and exterior galaxies.

**ASTR 1304 (ASTR 1304) Solar System (3-0).** A descriptive, non-mathematical course that deals mainly with the solar system and its components. Emphasis is on the study of the celestial sphere, the history of astronomy, motions in the heavens, and the survey of planets.

## **BIOLOGY (BIO/BIOL)**

**BIO 3300 Basic Survey of Sciences I (3-0). QEP MAPPED COURSE** A general science course designed for elementary education majors, focusing on understanding and teaching Physics and Chemistry standards, from Kindergarten level through Middle School. Standards will be presented using the scientific inquiry cycle of observing a phenomenon, asking questions, constructing explanations, planning and carrying out investigations, and engaging in argument from evidence.

**BIO 3302 Evolution (3-0).** Evolution is the central concept in biology. This course examines evolution as a science and places it in an historical context. Lectures focus on descent with modification, the nature of natural selection, the history of the earth, the information content of the fossil record, and processes responsible for diversification (speciation and extinction). Prerequisites: BIOL 3306 or BIO 3306

**BIO 3306 Genetics (3-0).** A comprehensive introduction to the four main areas of modern genetics: Mendelian genetics, cytogenetics, molecular genetics, and population genetics. The historical and philosophical basis for these areas will be dealt with using plant and animal studies. Prerequisites: BIOL 1306/1106 & BIOL 1307/1107

**BIO 3307 Animal Behavior (3-0).** The study of feeding, defense, animal orientation, instinctive behavior, learning, communication, social, and sexual behavior with emphasis on evolutionary and ecological relationships. Prerequisites: BIOL 1306/1106 & BIOL 1307/1107

**BIO 3308 Foundations of Elementary Science I (3-0).** First course in a series of two in required science content sequence for preservice elementary and middle school teachers. Topics covered will include the following TEA science competencies: History & Nature of Science; Impact of Science; Concepts & Processes; Forces & Motion; Physical & chemical Properties; Energy & Interactions; Energy Transformation & Conservation; Structure & Function of Living Things; Reproduction & the Mechanisms of Heredity. Emphasis on problem-solving as a pedagogical tool with integration of manipulative-based explorations. For elementary education majors only. Offered fall.

**BIO 3309 Foundations of Elementary Science II (3-0).** Second course in a series of two in required science content sequence for preservice elementary and middle school teachers. Topics covered will include the following TEA science competencies: Lab Processes, Equipment & Safety; Students as Learners & Science Instruction; Science Assessment; Adaptions \* Evolution; Organisms & the Environment; Structure & Function of Earth Systems; Cycles in Earth Systems; Energy in Weather & Climate; Solar System & the Universe. Emphasis on problem-solving as a pedagogical tool with integration of manipulative-based explorations. For elementary education majors only. Offered spring.

**BIO 3406 Principles of Ecology (3-2).** A study of the interrelationships of plants and animals and their environments, addressing where and how organisms live. To include, but not limited to: population growth, ecosystem function, energy flow, nutrient cycling, ecological classification, biodiversity, species interactions, adaptation, sampling and censusing techniques. Prerequisites: 1306/1106 & BIOL 1307/1107

**BIO 3407 Vertebrate Natural History (3-2).** Taxonomy, evolution, and natural history of vertebrates of the world with emphasis on North American and Texas species. Prerequisite: BIOL 1407

**BIO 4101 Biology Senior Review (1-0).** The purpose of the senior capstone is to provide students with a formal opportunity to apply the knowledge and skills acquired in the Biology curriculum to a culminating personalized learning experience. Students conduct a thorough literature review of pertinent topics in biology, analyze and summarize findings, resulting in a written and/or oral report. Required for all Biology majors. To be taken during the final long semester before graduation. Prerequisite: Completion of, or current enrollment in, all required departmental courses (e.g., Genetics and Cell Biology).

**BIO 4301 Cell Biology (3-0).** A study of the particulate morphology and basic physiology of the cell and cell organelles, including basic facts, concepts, and problems in modern cellular biology. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIO 4305 Special Topics (3-0).** A course dealing with selected and timely topics in biology such as animal behavior, animal physiology, coevolution, invasive species, conservation or many other potential subjects. May be repeated when topic varies. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIO 4403 Herpetology (3-2).** An exploration into the ecology, natural history, physiology, evolution and systematics of amphibians and reptiles with emphasis on those species found in the southwestern region of Texas. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIO 4404 Ornithology (3-2).** An exploration into the ecology, natural history, physiology, evolution and systematics of birds with emphasis on those species found in the southwestern region of Texas. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIO 4409 Mammalogy (3-2).** An exploration into the ecology, natural history, physiology, evolution, systematics, and economic relations of mammals with emphasis on those species found in the southwestern region of Texas. Museum technique and field work will be stressed. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIO 4415 Desert Ecology (3-2).** A course dealing with the biology of North American deserts, primarily the Chihuahuan Desert. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIO 5301 Biogeography (3-0).** This course investigates the spatial patterns of biological diversity and its causes, both in the present and in the past. Prerequisite: Bachelor of Science in Biology or permission of the instructor

**BIO 5303 Evolutionary Biology (3-0).** This course will focus on current theories of forces of evolutionary change, including natural selection, gene flow, founder effects and the role of evolutionary change in the origin of new species and the diversity of life. Prerequisite: Bachelor of Science in Biology or permission of the instructor.

**BIO 5305 Physiological Ecology (3-0).** Study of how interactions between vertebrate physiology and behavior shape vertebrate biology in an ecological context. Prerequisite: Bachelor of Science in Biology or permission of the instructor

**BIO 5307 Understanding the Human Body (3-0).** A course designed to increase content knowledge about the anatomy and physiology of the 11 organ systems in humans. Prerequisite: Bachelor of Science in Biology or permission of the instructor

**BIO 5309 Comparative Vertebrate Biology (3-0).** A course designed to increase content knowledge about the taxonomy, morphology, adaptations, and evolution of vertebrates. Prerequisite: Bachelor of Science in Biology or permission of the instructor

**BIO 5313 Special Topics (3-0).** A course dealing with selected and timely topics in biology such as animal behavior, animal physiology, coevolution, invasive species, conservation or many other potential subjects. Prerequisite: Bachelor of Science in Biology or permission of the instructor

**BIOL 1106 (BIOL 1106) Biology for Majors I Laboratory (0-2).** The first half of a two semester sequence including the molecular basis of life, biology and replication of the cell, transcription, translation, energy acquisition and retrieval, and reproduction. This lab will focus on cell structure and replication, the physical and chemical properties of life and energy cycles. Required for Biology Majors and Minors. Prerequisites: Biology for Majors I (BIOL 1306) lecture must be taken concurrently or previously

**BIOL 1107 (BIOL 1107) Biology for Majors II Laboratory (0-2).** The second half of a two semester sequence including foundational concepts of natural selection, evolution, and speciation, anatomy and physiology and diversity of plants and animals, and ecological and environmental principles. This lab will focus on natural selection simulation, phylogenetics, microscopy, animal and plant anatomy, and the diversity of microbes, protists, fungi, plants, invertebrates, and vertebrates. Required for Biology Majors and Minors. Prerequisites: Biology for Majors II (BIOL 1307) lecture must be taken concurrently or previously

**BIOL 1111 (BIOL 1111) General Botany Lab (0-2).** Laboratory activities will reinforce fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. Lab fee: \$8

**BIOL 1113 (BIOL 1113) General Zoology Lab (0-2).** Laboratory activities will reinforce fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. Lab fee: \$8

**BIOL 1301 Medical Terminology (3-0).** This course is intended to introduce students to the importance of the medical terminology in order to properly use it in a medical environment. This goal will be addressed through an examination of the terminology of the human body, starting with the general terms and then specializing on the various systems of the body, including the integument, muscular, skeletal, cardiovascular, digestive, endocrine, lymphatic, respiratory, reproductive, and urinary. Combined with on-line resources, students will acquire an understanding of how medical terms should be used, pronounced, and the meaning behind these terms.

**BIOL 1306 (BIOL 1306) Biology for Majors I (3-0).** The first half of a two semester sequence including the molecular basis of life, biology and replication of the cell, transcription, translation, energy acquisition and retrieval and reproduction. Required for Biology Majors and Minors.



**BIOL 1307 (BIOL 1307) Biology for Majors II (3-0).** The second half of a two semester sequence including foundational concepts of natural selection, evolution, and speciation, anatomy and physiology of plants and animals, diversity of plants and animals, and ecological and environmental principles. Required for Biology Majors and Minors. Prerequisites: Biology for Majors I (BIOL 1306/BIOL1106)

**BIOL 1311 (BIOL1311) General Botany (3-0).** A general survey of the plant kingdom which considers the fundamentals of biological facts, laws, and principles as they apply to plants. Structure and functions of the organs of representative plants will be considered.

**BIOL 1313 (BIOL 1313) General Zoology (3-0).** A general survey of the animal kingdom which considers the fundamentals of biological facts, laws, and principles as they apply to animals. The structure and functions of the organs and systems of representative animals will be covered.

**BIOL 1340 Pathophysiology (3-0).** This course builds on knowledge obtained in anatomy and physiology courses which provides information related to basic pathological processes that underlie diseases commonly found in clinical practice. The basics of each pathological process are explained and illustrated by exploration of common diseases caused by that pathological process. Introduction of selected pathophysiologic concepts across the life span will be initiated in this course with emphasis on diagnostic data related to the concept.

**BIOL 2100 Independent Study/Research (0-3).** Independent study or research of a topic in biology with supervision by a biology faculty member. This course may be repeated if topic varies. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 2101 (BIOL 2101) Anatomy & Physiology I Laboratory (0-2).** Study of the structure and function of the integumentary, skeletal, muscular and nervous systems. Also focuses on basic cellular physiology and how it applies to various systems of the body. This lab will involve inspection of prepared slides, anatomical models, and dissection of mammalian material. Course is intended for pre-nursing, pre-medical, pre-optometry, pre-veterinary students, other pre-health professionals and Biology Majors. Prerequisites: Anatomy & Physiology I (BIOL 2301) to be taken concurrently or previously; Biology for Majors I (BIOL 1306/BIOL 1106) strongly preferred.

**BIOL 2102 (BIOL 2102) Anatomy & Physiology II Laboratory (0-2).** Study of the structure and function of the cardiovascular, respiratory, digestive, urinary, immune, endocrine and reproductive systems. This lab will involve inspection of prepared slides, anatomical models, and dissection of mammalian material. Course is intended for pre-nursing, pre-medical, pre-optometry, pre-veterinary students, other pre-health professionals and Biology Majors. Prerequisites: Anatomy & Physiology I lecture and laboratory (BIOL 2301/BIOL2101) required; Anatomy & Physiology II (BIOL 2302) to be taken concurrently or previously.

**BIOL 2121 (BIOL 2121) Microbiology for Science Majors Laboratory (0-2).** Principles of microbiology, including metabolism, structure and function of microbes. This lab presents an overview of the ubiquity and diversity of microorganisms and will focus on hands-on learning of microscopy, aseptic technique, isolating, culturing and identifying bacteria. This course is designed for Biology Majors and Minors, pre-nursing, pre-dental, and pre-veterinary students. Prerequisites: Microbiology for Science Majors (BIOL 2321) lecture must be taken concurrently or previously.

**BIOL 2200 Independent Study/Research (0-6).** Independent study or research of a topic in biology with supervision by a biology faculty member. This course may be repeated if topic varies. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 2300 Independent Study/Research (0-9).** Independent study or research of a topic in biology with supervision by a biology faculty member. This course may be repeated if topic varies. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 2301 (BIOL 2301) Anatomy & Physiology I (3-0).** Study of the structure and function of the integumentary, skeletal, muscular and nervous systems. Also focuses on basic cellular physiology and how it applies to various systems of the body. Course is intended for pre-nursing, pre-medical, pre-optometry, pre-veterinary students, other pre-health professionals and Biology Majors. Prerequisites: Biology for Majors I (BIOL 1306/BIOL 1106) strongly preferred

**BIOL 2302 (BIOL 2302) Anatomy & Physiology II (3-0).** Study of the structure and function of the cardiovascular, respiratory, digestive, urinary, immune, endocrine and reproductive systems. Course is intended for pre-nursing, pre-medical, pre-optometry, pre-veterinary students, other pre-health professionals and Biology Majors. Prerequisites: Anatomy & Physiology I lecture and laboratory (BIOL 2301/BIOL2101) required

**BIOL 2320 Special Topics (3-0).** A course offering selected topics in biology. This course may be repeated if topic varies. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 2321 (BIOL 2321) Microbiology for Science Majors (3-0).** Principles of microbiology, including metabolism, structure and function, genetics and phylogeny of microbes. This course presents an overview of the ubiquity, diversity and evolution of microorganisms, microbial ecology, and medical microbiology. This course is designed for Biology Majors and Minors, pre-nursing, pre-dental, and pre-veterinary students. Prerequisites: Biology for Majors I (BIOL 1306/BIOL 1106) or Anatomy and Physiology I (BIOL 2301/BIOL 2101) required.

**BIOL 2404 (BIOL 2404) Anatomy and Physiology (3-2).** Basic structure and function of human systems, including: skeletal, muscular, cardiovascular, respiratory, nervous, digestive, and urinary systems. Laboratory emphasis on anatomy and lecture emphasis on physiology. Recommended for Kinesiology and pre-vocational nursing students. This course will not count toward credit in a Biology major or minor. Prerequisite: BIOL 1306 – Biology for Majors I Lab fee: \$8

**BIOL 2405 Plants and People (3-2).** A survey of plants and plant products that have major uses in human life. Such uses include food, fiber, medicines, religious sacraments, poisons, stimulants, inebriants, oils, perfumes, dyes, spices, and beverages. Examples from Trans-Pecos Texas will be discussed, including forages, toxic plants and invasive species. Prerequisite: BIOL 1307 – Biology for Majors II preferred Lab fee: \$8

**BIOL 2406 (BIOL 2406) Environmental Biology (3-2).** An introduction to the biological effect of the human activities on the environment. This course emphasizes water, soil, and air pollution as well as other current ecological concerns. The course serves as one of the introductory courses in environmental science. The laboratory will focus on the EPA Standards Method used in field and laboratory analysis of environmental samples. Prerequisite: BIOL 1306 – Biology for Majors I preferred. Lab fee: \$8

**BIOL 2420 Special Topics with Laboratory (3-2).** This is a course offering selected topics in biology with laboratory. It may be repeated if topic varies. Prerequisite: BIOL 1306 – Biology for Majors I. Lab fee: \$8



**BIOL 3301 Human Nutrition (3-0).** A general Science course designed for elementary education majors only, focusing on understanding and teaching Earth Sciences and Biology standards, from Kindergarten level through Middle School. Standards will be presented using the scientific inquiry cycle of observing a phenomenon, asking questions, constructing explanations, planning and carrying out investigations, and engaging in argument from evidence.

**BIOL 3302 Evolution (3-0).** Evolution is the central concept in biology. This course examines evolution as a science and places it in an historical context. Lectures focus on descent with modification, the nature of natural selection, the history of the earth, the information content of the fossil record, and processes responsible for diversification (speciation and extinction). Prerequisites: BIOL 3306 or BIO 3306

**BIOL 3303 Sciences in Cinema and Television (3-0).** A lecture course examining the scientific content or lack thereof in classic and current films. Films with a scientific theme will be viewed and the merits of the scientific content will be discussed. Students will gain an understanding and appreciation of how science is portrayed to the viewing public by the film and television industries and can be used as a persuasive tool for political maneuvering.

**BIOL 3305 Women in Science (3-0).** Explores the roles and contributions that past and present women have made within the sciences, including: chemistry, earth and physical sciences, biology, and natural resource management.

**BIOL 3306 Genetics (3-0).** A comprehensive introduction to the four main areas of modern genetics: Mendelian genetics, cytogenetics, molecular genetics, and population genetics. The historical and philosophical basis for these areas will be dealt with using plant and animal studies. Prerequisites: BIOL 1306/1106 & BIOL 1307/1107

**BIOL 3307 Animal Behavior (3-0).** The study of feeding, defense, animal orientation, instinctive behavior, learning, communication, social, and sexual behavior with emphasis on evolutionary and ecological relationships. Prerequisites: BIOL 1306/1106 & BIOL 1307/1107

**BIOL 3308 Applied Entomology (3-0).** The study of the various means of controlling and managing insect populations, from botanical and chemical pesticides, to cultural and mechanical means. Students will learn about various insect management strategies through a combination of lecture and current published literature. Prerequisites: BIOL 1306 Biology for Majors I

**BIOL 3309 History of Science (3-0).** The study of the evolution of scientific discovery over time. Topics covered will reach beyond just biology, covering physics, astronomy, chemistry, and medicine. Time periods covered begin in the ancient sciences, and move forward to the Renaissance. Scientific discoveries will be examined culture by culture, to see the multicultural influence on the development of science over time.

**BIOL 3403 Parasitology (3-2).** A study of the biology, morphology, and ecology of parasitic organisms as they relate to various host- parasite relationships and diseases in animals and man. The diagnosis, pathology, treatment and prevention of parasitism will be discussed. Post mortem examinations and treatment of animals will be performed in labs as available. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 3405 Agrostology (3-2).** The classification, phylogeny, natural history, and literature of the important range grasses of the Trans- Pecos region of Texas. Collection and field trips. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 3406 Principles of Ecology (3-2).** A study of the interrelationships of plants and animals and their environments, addressing where and how organisms live. To include, but not limited to: population growth, ecosystem function, energy flow, nutrient cycling, ecological classification, biodiversity, species interactions, adaptation, sampling and censusing techniques. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107. Lab fee: \$8

**BIOL 3408 Invertebrate Zoology (3-2).** The study of the life history, morphology, taxonomy, phylogeny, and ecology of invertebrate organisms. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 3601 General Entomology (4-4).** A comprehensive introduction to the field of entomology, including functional anatomy, physiology, behavior, ecology, and control of insects. Laboratory section emphasizes taxonomy. Collection of insects is required. Prerequisites: BIOL 1307 – Biology for Majors II. Field school fee: \$175 – \$1800

**BIOL 3602 Plant Taxonomy (4-4).** The taxonomic study of vascular plants, emphasizing the flowering plants of Trans-Pecos Texas. Included are traditional aspects of plant classification, phylogeny, herbarium techniques, collections, and field trips. Usually offered only in summer. Prerequisite: BIOL 1307 – Biology for Majors II. Field school fee: \$175 – \$1800

**BIOL 4101 Biology Senior Review (1-0).** The purpose of the senior capstone is to provide students with a formal opportunity to apply the knowledge and skills acquired in the Biology curriculum to a culminating personalized learning experience. Students conduct a thorough literature review of pertinent topics in biology, analyze and summarize findings, resulting in a written and/or oral report. Required for all Biology majors. To be taken during the final long semester before graduation. Prerequisite: Completion of, or current enrollment in, all required departmental courses (e.g., Genetics and Cell Biology).

**BIOL 4102 Individual Studies (1-0).** Individual study of selected topics in biological literature or Field Biology. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 4202 Individual Studies (2-0).** Individual study of selected topics in biological literature or Field Biology. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 4300 Individual Studies (3-0).** Independent study of selected topics in Biology. Prerequisite: BIOL 1306 – Biology for Majors I

**BIOL 4301 Cell Biology (3-0).** A study of the particulate morphology and basic physiology of the cell and cell organelles, including basic facts, concepts, and problems in modern cellular biology. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIOL 4305 Special Topics (3-0).** A course dealing with selected and timely topics in biology such as animal behavior, animal physiology, coevolution, invasive species, aquatic plants, conservation or many other potential subjects. May be repeated when topic varies. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107.

**BIOL 4307 Capstone Research (3-0).** A capstone research project – undergraduate thesis designed to culminate the undergraduate experience in the Biology program. Course is designed to have students coordinate research activities with a mentor, conduct a study, write up results in a publishable format according to the appropriate discipline, and present findings to a scientific audience. Prerequisite, if any: Biology major of Junior or Senior classification.

**BIOL 4402 Ichthyology (3-2).** The systematic, phylogeny, natural history, and economic importance of the fishes of the world with emphasis on those found in the fresh and salt waters of Texas. This course also serves as an introduction to Vertebrate Zoology. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 4403 Herpetology (3-2).** An exploration into the ecology, natural history, physiology, evolution and systematics of amphibians and reptiles with emphasis on those species found in the southwestern region of Texas. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107. Lab fee: \$8

**BIOL 4404 Ornithology (3-2).** An exploration into the ecology, natural history, physiology, evolution and systematics of birds with emphasis on those species found in the southwestern region of Texas. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107. Lab fee: \$8

**BIOL 4405 Plant Physiology (3-2).** The study of the life processes of plants and the physical and chemical phenomena of plant cells, and their relationship to the environment. Studies of photosynthesis, transportation, translocation, nitrogen fixation, and hormones will be included with emphasis on vascular plants. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 4408 Morphology of the Vascular Plants (3-2).** The study of the vascular plants, including life cycles, life histories, and consideration of evolutionary trends. Field trip. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 4409 Mammalogy (3-2).** An exploration into the ecology, natural history, physiology, evolution, systematics, and economic relations of mammals with emphasis on those species found in the southwestern region of Texas. Museum technique and field work will be stressed. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107. Lab fee: \$8

**BIOL 4410 Medical and Veterinary Entomology (3-2).** A comprehensive introduction to the insects and other arthropods of medical and veterinary importance. Lectures emphasize life-cycles, transmission of disease, and control practices. Laboratory studies emphasize taxonomy and techniques. Prerequisite: BIOL 1307 – Biology for Majors II Lab fee: \$8

**BIOL 4412 Medical/Veterinary Microbiology (3-2).** A comprehensive introduction to the microbiology of pathogenic organisms in the medical and veterinary microbiology, the immune response and pathogenesis, principles of laboratory diagnosis, bacteriology, virology, mycology, and parasitology. Laboratory will focus on specimen collection and diagnostic methods. Prerequisite: Introduction to Microbiology or consent of instructor. Lab fee: \$8

**BIOL 4413 Collections Management (3-2).** Learn the techniques and skills required to operate, curate, and manage a variety of biological collections. This will include proper handling, preservation, organization, and accessioning techniques for both zoological and botanical materials. The legal side of collection maintenance will be covered, in addition to practical applications of museums in research. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 4414 Forensic Entomology (3-2).** The study of the various insects associated with forensic investigations. Course will cover the use of insect related evidence in legal investigations, and how that evidence can be collected, analyzed, and used in a court of law. Lectures will emphasize the major aspects of forensic entomology, from calculating post mortem, the different types of data that can be obtained from insects, the effects of the environment on forensic entomology, and other aspects of the field. Laboratory studies will emphasize taxonomy and identification, as well as collection techniques. Prerequisites: BIOL 1306 Biology for Majors I

**BIOL 4420 Special Topics with Laboratory (3-2).** A course offering selected topics in biology with laboratory. This course may be repeated if topic varies. Prerequisite: BIOL 1307 – Biology for Majors II. Lab fee: \$8

**BIOL 4601 North American Desert Experience (4-4).** This field intensive course will immerse students in the fascinating study of desert ecosystems and the interactions between desert organisms and their environments. Special attention will focus on the community ecology of the four recognized deserts of the American Southwest—the Chihuahuan, Sonoran, Mohave, and Great Basin Deserts. Offered in summer sessions only. Several multi-day field trips are required. Prerequisite: BIOL 1306/1106 & BIOL 1307/1107 and either BIOL 4402, BIOL/BIO 4404, BIOL/BIO 4409, or by permission of instructor. Field school fee: \$175 – \$1800

**BIOL 4607 Special Topics Field Studies (4-4).** A course offering selected topics in Biology that consist of field work. This course may be repeated if topic varies. Prerequisite: BIOL 1307 – Biology for Majors II. Field school fee: \$175 – \$1800

**BIOL 5100 Individual Studies (1-0).** Independent study of selected topics in biology.

**BIOL 5101 Graduate Seminar (1-0).** Discussion of pertinent topics in biology, with emphasis changing depending upon instructor.

**BIOL 5200 Individual Studies (2-0).** Independent study of selected topics in biology.

**BIOL 5207 Biological Investigations (2-0).** A course covering varied topics relevant to current biological studies. May be repeated when topic varies.

**BIOL 5301 Cacti and Succulents of the Southwest (2-2).** A study of the life cycles, life histories, and environment with special attention to survival and adaption of the cacti and succulents of the Southwest and in particular those in the Trans-Pecos region.

**BIOL 5303 Non-Thesis Oral Exam and Preparation (3-0).** A short course covering all the major topics and areas of biology, in order to prepare for the final exam for the degree. Students will be expected to review and teach back material including, but not limited to, basic biological concepts such as photosynthesis, cellular respiration, transcription and translation, mitosis and meiosis, and evolution via natural selection. Current relevant topics in biology will also be incorporated into the course. Toward the end of the semester, students will take the final comprehensive exam required for completion of the degree.

**BIOL 5305 Techniques of Scientific Research (3-0).** Style and format in manuscript, proposal and thesis preparation. Materials and methods of scientific investigation and science education. Orientation to graduate level and professional studies. Required in first semester or at first opportunity thereafter.

**BIOL 5307 Special Topics (3-0).** A course dealing with selected and timely topics in biology. May be repeated when topic varies.

**BIOL 5310 Applied Entomology (3-0).** Introduction to principles and theories of insect control strategies. Includes concepts of chemical, cultural, and physical controls, and biological and integrated pest management. Prerequisite: General Entomology or equivalent.

**BIOL 5311 Evolution (3-0).** The study of the theory and current concepts of evolution, including: natural selection, gene flow, founder effect, and speciation.

**BIOL 5312 Graduate Research (0-9).** Qualified students may conduct individual research under the direction and supervision of the staff. May be repeated once when topic varies.

**BIOL 5316 Biostatistical Analysis I (2-2).** An introduction to statistical concepts and models applied to agricultural and biological systems. The course introduces the scientific method, inferential theory, data types, descriptive statistics, goodness of fit, contingency tables, the normal distribution and one- and two-sample hypothesis testing. Emphasis will be placed on data analysis and interpretation using computer statistical applications. Required for MS Thesis Plan I option. Offered Fall.

**BIOL 5317 Biostatistical Analysis II (2-2).** An advanced course in statistical concepts and models applied to agricultural and biological systems. The course will cover experimental designs, paired-sample hypotheses, multi-sample hypotheses (ANOVA), multiple comparisons, factorial and nested ANOVA, data transformations, linear regression and correlation, multiple regression and correlation, polynomial regression and the binomial distribution. Emphasis will be placed on data analysis and interpretation using computer statistical applications. Offered Spring.

**BIOL 5318 Toxic and Medicinal Plants (3-0).** A graduate-level survey of toxic and medicinal plants, including their identification & classification, clinical signs of intoxication, toxic principle, mechanism of action, and treatment (if any). Emphasis is on toxic plants of West Texas and major medicinal plants of historical significance.

**BIOL 5407 Special Topics with Laboratory (3-2).** A course dealing with selected and timely topics in biology with laboratory. This course may be repeated if topic varies. Lab fee: \$8

**BIOL 5601 Field Botany (3-6).** Studies of plants in their natural environments including aspects such as: taxonomy; morphology; ecology; biogeography; and/or phylogeny. Revolving emphasis (e.g., woody plants, monocots, or composites) and a flexible program according to demand. Offered in summer session, several field trips including multi-day. Field school fee: \$175 – \$1800

**BIOL 5602 Field Zoology (3-6).** A course devoted primarily to acquainting the student with animal life in its natural habitat. Collecting, museum techniques, systematic and ecological implications will be stressed. Field school fee: \$175 – \$1800

**BIOL 5607 Special Topics Graduate Field Studies (3-6).** A course offering selected topics in biology that consist of field work. This course may be repeated if topic varies. Field school fee: \$175 – \$1800

**BIOL 6040 Thesis Research (0-18).** The student will enroll in this course after earning credit for BIOL 6301 (Thesis Prospectus), each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made. The course is variable for 1 to 9 credit hours, and may be repeated with approval of advisor. Credit hours earned may not be applied towards the 30 or 36 hours required for the degree. Prerequisites: Master of Science students that have been admitted to candidacy, including earned credit for Thesis Prospectus.

**BIOL 6301 Thesis Prospectus (0-6).** Satisfactory completion of this course requires an acceptable prospectus presented to the Graduate Committee. The student will normally register for this class no earlier than the second semester of graduate study. The prospectus is expected to be completed promptly, as this course may not be taken more than two long semesters.

**BIOL 6302 Thesis Defense (0-6).** The student will enroll in this course at the time of the defense and after earning credit for BIOL 6301 (Thesis Prospectus). Satisfactory completion of this course will result in the completed thesis presented to the Graduate Committee, accepted by the Dean of the School, the Dean of the Graduate School, and filed in the Office of the Provost and Vice President for Academic Affairs. Prerequisite: BIOL 6301.

**BIOL 6602 Non-Thesis Preparation and Defense (4-1).** A course covering all the major topics and areas of biology, in order to prepare for the final exam for the degree. Students will be expected to review and teach back material including, but not limited to, basic biological concepts such as photosynthesis, cellular respiration, transcription and translation, mitosis and meiosis, and evolution via natural selection. Current relevant topics in biology will also be incorporated into the course. Toward the end of the semester, students will take the final comprehensive exam required for completion of the degree.

## **BUSINESS LAW (BLAW)**

**BLAW 3310 Business Law (3-0).**

A study of the legal aspects of business transactions with emphasis on the law of contracts, agency, bailments, and commercial paper.



## **CHEMISTRY (CHEM)**

### **CHEM 1111 (CHEM 1111) General Chemistry I Lab (0-2).**

This course consists of basic laboratory experiments such as recrystallization, crystal growing, redox reactions, metathesis reactions, basic organic chemistry, chromatography, and titrations to support the theoretical principles presented in CHEM 1311. This course introduces students to the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports. Prerequisite: MATH 1314 or equivalent. Corequisite: CHEM 1311. Lab fee: \$8

### **CHEM 1112 (CHEM 1112) General Chemistry II Lab (0-2).**

This course consists of laboratory experiments such as enthalpy of solutions, heat of reactions, polymerization, chemical kinetics, acid-base reactions, pH titrations, solubility products and qualitative analysis of ions to support the theoretical principles presented in CHEM 1312. Prerequisites: CHEM 1311 and CHEM 1111. Corequisite: CHEM 1312. Lab fee: \$8

### **CHEM 1311 (CHEM 1311) General Chemistry I (3-0).**

Students will study matter, atomic theory, atomic structure, concept of moles, chemical units of concentration, concept of balanced chemical reaction equation, chemical bonding, and kinetic molecular theory of gases, periodic table of the elements, chemical bonding, drawing Lewis structures, molecular geometry and hybridization of atomic orbitals. Prerequisite: MATH 1314 or equivalent. Advanced placement in CHEM 1311 may be given on successful completion of advanced placement examination.

### **CHEM 1312 (CHEM 1312) General Chemistry II (3-0).**

Students will study colligative properties of solutions, chemical kinetics, chemical equilibrium, acid-base systems including the concept of pH, thermodynamics, energy relationships in chemistry reactions, detailed redox reactions and electrochemistry. Prerequisite: CHEM 1311 and CHEM 1111.

### **CHEM 2401 (CHEM 2401) Analytical Chemistry I (2-4).**

This course includes chemical equilibria, acid-base equilibria, buffers, solubility equilibria, and volumetric methods of analysis. Prerequisite: CHEM 1312 and CHEM 1112. Lab fee: \$8

### **CHEM 2402 Inorganic Chemistry I (3-3).**

This course involves an in depth study of atomic structure, crystalline solid state, wave mechanical principles, chemical bonds, comparison of valence bond and molecular bond theories, and inorganic nomenclature. Prerequisite: CHEM 1312 and 1112. Lab fee: \$8

### **CHEM 3407 Organic Chemistry I (3-3).**

This course is a thorough study of the chemistry of aliphatic and aromatic hydrocarbons and their derivatives. Special emphasis on nomenclature, stereochemistry, reaction mechanisms and fundamental principles of organic chemistry. Nuclear magnetic spectroscopy and mass spectroscopy will be introduced. Prerequisites: CHEM 1312 and CHEM 1112 or permission of instructor. Lab fee: \$8

### **CHEM 3408 Organic Chemistry II (3-3).**

The study of aromatic heterocyclic and unsaturated compounds. The chemistry of aldehydes, ketones, ethers, alcohols, carboxylic acids, amines and carbonyl reactions will be discussed in detail. Prerequisite: CHEM 3407. Lab fee: \$8



**CHEM 3409 Inorganic Chemistry II (3-3).**

Students will undertake an in depth study of organometallic chemistry, chemistry of main group elements and coordination compounds. Prerequisite: CHEM 2402. Lab fee: \$8

**CHEM 4300 Undergraduate Research (3-0).**

Individual research or studies on topics of general interest encouraged. May be repeated once for credit. (On demand)

**CHEM 4301 Biochemistry I (3-0).**

Students will study the structure and function of amino acids, proteins, carbohydrates, lipids, nucleotides and nucleic acids. This course also introduces biological membranes, membrane transport, enzyme kinetics, enzyme regulation, DNA replication, transcription and RNA translation. Prerequisite: CHEM 3407.

**CHEM 4302 Biochemistry II (3-0).**

Students will study major metabolic pathways of the cell: glycolysis, pentose phosphate pathway, gluconeogenesis, glycogen metabolism, citric acid cycle, electron transport, oxidative phosphorylation, photosynthesis, lipid, amino acid and nucleotide metabolism. Students will gain a greater understanding of the chemistry of key enzymes and coenzymes, genetic diseases related to metabolism and the mechanisms of enzyme regulation. Recombinant DNA and other genetic methods will also be included. Prerequisite: CHEM 4301

**CHEM 4311 Special Topics (3-0).**

A course covering various topics in Chemistry. May be repeated for credit when topic varies.

**CHEM 4406 Physical Chemistry I (3-3).**

Students will undertake an in-depth study of gaseous systems, thermodynamics, phase equilibria, colligative properties of solutions, and surface chemistry. Prerequisite: CHEM 2401, PHYS 2326 and PHYS 2126. Lab fee: \$8

**CHEM 4407 Physical Chemistry II (3-3).**

Students will undertake an in-depth study of statistical thermodynamics, molecular reaction dynamics, reaction kinetics, electrochemistry, and homogenous and heterogeneous equilibrium. Prerequisite: CHEM 4406. Lab fee: \$8

## **COMMUNICATION (COMM)**

**COMM 1307 (COMM 1307) Introduction to Mass Communication (3-0).** A survey and analysis of the history, regulations, scope, social implications, and problems of electronic mass media, including radio, television and news media.

**COMM 1310 Fundamentals of Communication (3-0).** Introductory communication course focusing on oral communication theory and skills needed by game and communication designers. Course emphasizes team work utilizing the SCRUM technique, interviewing, concept pitching and oral reports that would be found in the gaming and communication design industries.

**COMM 1315 (SPCH 1315) Public Speaking (3-0).** This course is designed to develop effective skills in public speaking, critical thinking, research, writing, and conscientious listening. Topics will include cultural conventions of speech, perceptions of others, verbal and nonverbal messages, and techniques of informative and persuasive speech presentation. Students will learn how to research, outline, and deliver short, informal presentations as well as longer speeches.

**COMM 1318 (SPCH 1318) Interpersonal Communication (3-0).** An introductory course designed to raise student awareness of the complexity and power of the communication process in daily life; to provide students with personally relevant concepts of interpersonal communication; and to help students develop their interpersonal communication skills. Prerequisite: COMM 1311

**COMM 1320 (SPCH 1321) Business and Professional Communication (3-0).** This course focuses on multiple modes of communication in business, government, industrial, and not-for-profit or service organizations ranging from routine messages, memos, and email to letters and professional presentations. Course highlights persuasion as a key component of all business and professional messages. It will include an analysis of the organizational structures of the workplace as well as job-oriented interviewing from the standpoint of the employer and employees. Meets oral communication requirement.

**COMM 1325 Introduction to Film Studies (3-0).** This course focuses on viewing films as literature and promotes understanding the 'story within the story'. It serves as an introductory course in film theory and criticism with some global cinema perspectives.

**COMM 1330 Introduction to Strategic Communication (3-0).** This course will explore the history of public relations and strategic communications in American society with particular emphasis on print media, broadcasting, advertising, and the internet. Basic theories, concepts, and approaches to strategic communication will be introduced, as well as discussions of the professional and ethical demands on practitioners.

**COMM 1335 Introduction to Communication Studies (3-0).** An introductory survey of the discipline of communication studies and its major fields. Course will cover a broad range of communication concepts and their application, such as communication in the workplace, effectively using social media, and improving interpersonal relationships. New and prospective majors will be exposed to the four emphasis areas of the program and students will also be exposed to the career opportunities associated with communication studies.

**COMM 2306 Basic Video Production (3-1).** Theory and practice of video production and television station operation. Lab practice in studio operations, scriptwriting, fundamental production skills (cameras, microphone, lighting, editing, etc.), studio and field assignments. Includes one-hour production lab.

**COMM 2307 (COMM 2303) Basic Radio (3-1).** Theory and practice of audio production and radio station operation. Lab practice in studio operations, scriptwriting, fundamental production skills (microphone, recording, editing, etc.), studio and field assignments. Includes one-hour production lab.

**COMM 2308 Web Page Design (1-2).** A computer based course in which students learn to design, construct, and evaluate web pages. Will include the use of web page software.

**COMM 2309 Communication and Sport (3-0).** This course surveys several fields within the discipline of communication studies as they approach sport as a context. The course includes

discussions of sport across a wide range of topics including gender, crisis communication, parent-child interactions, race and ethnicity, performing identity, commodification, sport fan cultures, and more. Prerequisite: COMM 1311

**COMM 2333 (SPCH 2333) Discussion & Small Group Communication (3-0).** Emphasis on effective group interaction in task-oriented situations. Course will focus on elements of small group structures and communication styles which influence the problem-solving process. Includes small group participation and analysis of group communication.

**COMM 2335 Visual Communication (2-1).** This course is an introduction to visual communication using perceptual, physiological, psychological, cultural and semiotic concepts. The course focuses on visual awareness and processing as key elements in effective communication. This course studies the principles, theories, and language of visual communication, emphasizing the evaluation and use of images, both mediated and face-to-face. Prerequisite: ENG 1301

**COMM 3302 Broadcast News Gathering (3-1).** Theory and practice of electronic journalism. Lab practice in writing and editing new copy, studio and field operations, reporting, preparation of newscasts and stories, studio and field assignments. Includes one-hour production lab.

**COMM 3303 Radio Workshop (1-4).** Application of basic audio skills in radio station setting. Students will produce individual and group projects/productions. Emphasis will be placed on the creative use of the audio medium. Prerequisite: Communication 2307 or instructor's permission. Course may be repeated for credit but not more than once for credit toward Communication major or minor.

**COMM 3304 Critical Reasoning (3-0).** This course is designed to provide an introduction to ideas about rationality and criticism. Through the study of the practical reasoning process, students will learn how to articulate the stages through which actual arguments and discussions go. Class discussion and exercise assignments are used to explore the human transaction known as reasoning.

**COMM 3305 Mass Communication and Culture (3-0).** This course is designed to provide an introduction to the history and theories of mass communication for students majoring in communication and as a general education for students from other disciplines who seek to understand the processes and impact of mass communication. The history and cultural impact of individual media examined will include, print media, film, television, radio and news media.

**COMM 3307 Studies in Film (3-0).** Students will be exposed to classic methods of film analysis (e.g. historical, content, psychological, genre studies, liturgical, and cultural, et al.). Utilizing a combination of full length films and "film on film," students will gain an understanding of film and related mass media. Course may be repeated for credit when film topic changes (e.g. Women in Film; Minorities in Film; Family in Film; et al.).

**COMM 3308 Video Workshop (1-4).** This course is designed for students interested in applying basic television knowledge and skills to the production of individual and group video projects and productions. Emphasis will be placed on creative use of the video medium. Prerequisite: Communication 2306 or instructor's permission. Course may be repeated for credit but not more than once for credit toward Communication major or minor.

**COMM 3309 Family Communication (3-0).** The family unit is studied from a communication perspective, considering in-depth the communication processes within the family as well as the extent to which they affect and are affected by the interdependence of family members.

**COMM 3311 Gender Communication (3-0).** This course is designed to teach students how gender is socially constructed and sustained in cultural life. Students will be encouraged to expand their communication skills by utilizing styles historically associated with both genders, rather than a single gendered form of speech.

**COMM 3312 Advanced Web Page Workshop (0-3).** This course is designed for students interested in applying basic web page design knowledge and skills to the construction of individual and group projects. Emphasis will be placed on creative web page design and construction. Course meets university computer competency requirement. Prerequisite: COMM 2308 or instructor's permission. Course may be repeated for credit but not more than once for credit toward Communication major or minor.

**COMM 3313 Advanced Video Production (3-1).** Continued study of camera, lighting and sound techniques. Pre-production and post-production elements also included. Course will focus on producing program content to be aired on campus television station. Prerequisite: Communication 2306.

**COMM 3315 Organizational Communication (3-0).** This course provides an examination and exploration of applications of communication theories within the framework of an organization. Attention will be given to strategies for diagnosing communication problems and affecting change in communication behaviors through an analysis of organizational communication theories and methods and a study of organizational culture and communication patterns.

**COMM 3320 Principles of Public Relations (3-0).** A study of the principles and practices in the field of public relations with special emphasis on practical case study experiences. Prerequisite: CSAT 2323 Writing for Digital Media or COMM 1330 Intro to Strategic Communication

**COMM 4301 Persuasion (3-0).** This course focuses on our dual roles as producers and consumers of persuasive messages. Students will examine persuasion in a variety of texts and contexts, as well as examine persuasive elements in human interaction and behavior. Topics covered include characteristics such as expertise, trustworthiness, and likeability; the use of emotions such as fear and humor; and the sequencing of messages for maximum impact. The course explores how psychological theories about consistency, conformity, and reciprocity help us understand what is persuasive.

**COMM 4302 Communication Theory and Research (3-0). QEP MAPPED COURSE** This course covers a broad exploration of communication theory and research practices. The course introduces various theories of communication and research methods in and across communication contexts. Emphasis is placed on understanding human communication as a symbolic process that creates, maintains, and alters personal, social, and cultural identities.

**COMM 4303 Studies in Speech (3-0).** Directed individual study and practice in a selected area of speech. May be repeated for credit when topic varies.

**COMM 4304 Special Topics (3-0).** A course dealing with topics in speech communications. May be repeated for credit when topic varies.

**COMM 4305 Relational Communication (3-0).** This course examines social scientific research and theory on the role of communication in developing and maintaining interpersonal relationships. Nature of interpersonal communication, relationship change processes, interpersonal control through communication and personal communication networks.

**COMM 4307 Intercultural Communication (3-0).** An examination of the interpersonal dimensions of intercultural communication as it occurs in a variety of contexts. Topics include: international cultures, co-cultures, cultural contexts, verbal processes, nonverbal interaction, and ethical considerations for the future.

**COMM 4310 Senior Capstone (0-3).** The Senior Capstone is the culminating course in the Communication major sequence. Each Capstone is implemented by students with the help and encouragement of an academic advisor. Capstone experiences allow each student to demonstrate the capacity to bring information, skills, and ideas acquired from the major to bear on one significant project. It is aimed at providing students with the opportunity to integrate the knowledge and skills they have acquired as communication majors as well as provide experiences for students to exhibit competent communication skills learned during their program of study in order to prepare for a career in communication.

**COMM 4315 Public Relations Campaigns (3-0).** A comprehensive study of case-method and campaign planning as they pertain to strategic communications in a modern society. Students learn the professional approach to the practice of strategic communication that includes all media print, electronic, Social Networking, and broadcast/radio and how to evaluate its creative strategy and media selection. Prerequisite: CSAT 2323

**COMM 5304 Speech Communication Workshop (1-4).** Advanced study and analysis of speech communication performance areas. Course may be repeated for credit.

**COMM 5305 Individual Study in Speech Communication (3-0).** Individually guided research in speech communication. May be repeated for credit when topic varies.

**COMM 5307 Public Relations (3-0).** Graduate Public Relations is designed to acquaint public administrators and other professionals with the terms, theory and procedures associated with modern public relations efforts. Special emphasis will be placed on practical applications of PR techniques, including organizational analysis, resource preparation, and crisis management.

**COMM 5308 Nonverbal Communication (3-0).** The course is designated to provide student with an in-depth examination of the major theories, principles, and latest research findings regarding nonverbal communication and its role in the total communication process. Through assigned readings, class discussions, and research projects, this course will examine how different nonverbal communication codes function in interaction to influence the management of conversation, the impressions formed in interaction, the development and maintenance of relationships, and the process of social influence

**COMM 5309 Organizational Communication (3-0).** This course provides the student with frameworks for thinking about how and why communication occurs at different levels of analysis in organizations, and how to recognize, analyze and improve different communication problems. Through assigned readings, class discussion, and research projects, this course will examine the nature of organizations communication; classical or organizational structure theories; behavioral and systems theories; sense-making theories; organizational climate and cultures and; information flow and communication networks.

**COMM 5310 Internet and Society (3-0).** Special courses on topics not included in the regular curriculum. May be repeated for credit with departmental approval.

**COMM 5311 Small Group Communication (3-0).** The aim of this course is to study the nature and dynamics of small groups focusing on communication research and theory as applied to the process of small group decision-making.

**COMM 5312 Oral Communication Course Development (3-0).** A course designed to prepare students to teach the basic communication course in higher education and other professional environments. The course covers course design, course evaluation, methodologies for skill development, and related topics. Provides theoretical and experiential knowledge about communication goals/objectives, teacher/student communication needs & expectations, reinforcement & feedback, climate & influence, and teacher/student communicator style, characteristics, and behavior.

**COMM 5313 Mass Communication Theory and Research (3-0).** This course is designed to explore the research and theory that attempt to explain the effect of mass communication on individuals and society. The course will primarily concentrate on the mass media of the last two centuries, considering how they have been shaped by society and how they have affected society by reviewing relevant theory and research.

## **COMPUTER INFORMATION SYSTEMS (CIS)**

**CIS 3323 Human and Computer Interaction (3-0).** A course designed to introduce the student to the dynamic process of human- computer interactions. Key elements will focus on user interface, ease of use, speed, comfort level, and software design strategies.

**CIS 3370 Systems Analysis and Design (3-0).** Focuses on the overview of a systems development life cycles. Emphasis is on current system analysis, data flows, data structures, file design, input and output designs and program specifications. Discussion

## **COMPUTER SCIENCE (CS)**

**CS 1309 (COSC 1336) Computer Science I (2-2).** This course is a disciplined approach to problem-solving with structured techniques and representation of algorithms using pseudo-code and graphical tools. There will be discussions of methods for testing, evaluation, and documentation. Topics include data types; control structures; functions, structures, arrays, and file input/output; the mechanics of running, testing and debugging programs; introduction to programming; and introduction to the historical and social context of computing. Prerequisite: Students may concurrently enroll in Math 1314.



**CS 1320 (COSC 1337) Computer Science II (2-2).** Students are introduced to the fundamental concepts of object-oriented programming, including concepts and techniques of object-oriented programming. This course introduces students to objects, classes, constructors, methods, object inheritance, and polymorphism from a practical and hands-on approach. Prerequisite: CS 1309.

**CS 2306 Special Topics (3-0).** Discussion of selected topics in computer science suitable for lower division students. The course may be repeated with different topics. Offered when needed. Prerequisite: Permission of the instructor.

**CS 2315 (COSC 2336) Data Structures (2-2).** This course is a further application of programming techniques. Topics include Abstract Data Types (ADTs), linear data structures (arrays, stacks, queues, and lists), and non-linear data structures, including graphs, trees, heaps, has tables, dictionaries, and maps. Students will also be introduced to recursive algorithms and graph traversal techniques. Prerequisite: CS 1320.

**CS 3101 Departmental Seminar (1-0).** A forum for the presentation and discussion of results from various disciplines relating to Computer Science and Mathematics. Presentations will be made by visitors, faculty, and students. Students enrolled for credit in the departmental seminar will be expected to make at least one oral presentation during the semester. The course may be repeated during different semesters. (This course is a cross-listing of MATH 3101). Offered fall and spring. Prerequisite: Upper division standing.

**CS 3302 Computer Aided Instruction (2-2).** This course will cover the fundamental concepts of parallel programming, including GPUs to maximize performance of modern computer systems. It will include parallel programming models, GPU programming with CUDA, and cluster computer with MPI and other parallel environments. Prerequisite: Permission of the instructor.

**CS 3306 Special Topics (3-0).** Discussion of selected topics in computer science suitably for upper division students. The course may be repeated with different topics. Offered when needed. Prerequisite: Permission of the instructor.

**CS 3310 Computer Communications (3-0).** Course covers network systems, topology, media, the theoretical network, real-world networks, and configuration of networks. Offered fall even years. Prerequisite: CS 1320

**CS 3316 Operating Systems (3-0).** This course examines the important problems in operating system design and implementation. Operating systems provide an established, convenient, and efficient interface between user programs and the bare hardware of the computer on which they run. The operating system is responsible for sharing resources (e.g. disks, networks, and processors), providing common services needed by many different programs (e.g. file services, the ability to start or stop processes, and access to the printer), and protecting individual programs from interfering with one another. Prerequisites: CS 2315

**CS 3320 Object-Oriented Programming (3-0).** In this course, students are introduced to concepts and techniques of more advanced object-oriented programming and provides additional exposure to using basic objects, classes, methods, inheritance, and polymorphism. Students will be introduced to property types, and method overloading. Students are also taught to appropriately use static classes, methods, and types when instance objects can be avoided. A brief comparison of objected-oriented languages such as C++, Smalltalk and CLOS is included. Prerequisite: CS 2315.



**CS 3331 Advanced Database Systems (3-0).** Study of the concepts of database management systems. Topics include file structures, access methods, database modeling and design, structured query language (SQL), and high level language interfaces to database systems. Offered spring even years. Prerequisite: CS 2315

**CS 3360 LINUX (3-0).** This course provides students with an understanding of the roles of Linux Server functions, the services provided by the server system, from basic to advanced operations involved in system security administration. It includes secure configuration of a system server, password policies, updates, patches, backups, port configuration and security scans. This course also includes virtualization of a Linux server. Prerequisites: CS 1309

**CS 4306 Individual Studies (3-0).** Investigation of special topics in Computer Science, conducted on an individual basis. The course may be repeated for different topics. Offered when needed. Prerequisite: Permission of the instructor.

**CS 4311 Senior Capstone II (3-0).** Continuation of Senior Capstone I Students complete a collaborative programming project and present a working product and business plan. Prerequisites: CS 4310

**CS 4320 Software Engineering (2-2).** This course emphasizes the software life cycle and the tools and models that have been developed to build large systems. Planning, estimating, and managing project development are discussed. Both the structured and the object-oriented paradigms will be covered. Offered fall even years. Prerequisite: CS 2315 or permission of the instructor.

**CS 4340 Computer Architecture (2-2).** Topics include combinational logic circuits and design sequential circuits, registers and counters, memory and programmable logic devices, register transfers and data paths, and sequencing and control. Offered spring odd years. Prerequisites: CS 2315

**CS 4390 Senior Project (0-6).** This is a capstone course in which the student is required to complete a project demonstrating command of a significant body of computer science. Includes oral defense of a paper written in ACM style and an exit examination designed to show mastery of all computer science courses completed. This course is required of all senior Computer Science majors. Offered when needed. Prerequisite: Permission of instructor.

**CS 5301 Special Topics in Computer Science (3-0).** Selected topics in Computer Science. The course may be repeated for different topics. Offered when needed. Prerequisite: Permission of instructor.

**CS 5302 Topics in Software Engineering (3-0).** This course compasses different methods and techniques in software engineering, developing the software life cycle and implementation of business-related software needs. The course may be repeated for different topics. Offered when needed. Prerequisite: Permission of instructor.

**CS 5303 Independent Studies (3-0).** Independent study of selected topics in Computer Science. The course may be repeated for different topics. Offered when needed. Prerequisite: Permission of instructor.

## **COMPUTER SCIENCE ART TECHNOLOGY (CSAT)**

**CSAT 2103 Individual Studies (1-0).** In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor.

**CSAT 2108 Web Development Programming (1-0).** A class covering client/server programming in various operating systems, including JAVA script, ASP, PHP, and others.

**CSAT 2110 Computer Graphics Programming (1-0).** Introduction to graphics systems, rasterizing, clipping, transformation, modeling, hidden surface removal, illumination, and shading.

**CSAT 2112 Animation Programming (1-0).** This course covers basic animation Programming techniques using high-level languages.

**CSAT 2303 Individual Studies (3-0).** In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor.

**CSAT 2306 Basic Television Technology (3-0).** Introductory course dedicated to basic television principles as related to game technology and communication design. Including, but not limited to camera, sound, lights, story board, and basic production elements to be used with green screen technology.

**CSAT 2307 Introduction to Audio (2-2).** Students learn the fundamentals of the physics of sound and basic recording and editing techniques.

**CSAT 2308 Web Page Development (3-0).** Layout and design of web pages, including structuring the page with proper alignment, consistency and site navigation; visual appeal of color and concepts for choosing color schemes that best represent the purpose of the website; and consideration of copyright law as applied to web page technology.

**CSAT 2309 Introduction to Game Design (3-0).** Students will study a range of game genres in order to understand the fundamentals of game design and what makes a game interesting, addictive, and fun. Game ideas will be developed using paper prototyping and, later in the course, digitally prototyped using game-creation software.

**CSAT 2310 Introduction to Digital Imaging (1-2).** This course covers digital imaging techniques including Photoshop and Illustrator. The course will focus on digital image editing, digital painting and illustration.

**CSAT 2312 Introduction to Animation (2-2).** This course will introduce students to traditional animation techniques using Toon Boom's Animate software and by studying notable historic examples of animation. Basic animation principles will be taught via presentations and reinforced through many practical exercises.

**CSAT 2315 Introduction to Game Programming (3-0).** A course designed to introduce students to programming languages and techniques used in the computer gaming industry. This course serves as the foundation for all other courses in the Gaming Technology concentration. Prerequisite: CS 1320

**CSAT 2316 Design Communication I (2-4).** A basic course in layout and production design for computer, online and information technology applications, including webpages., Human Computer Interface (HCI) design, e-publishing and information communication design. This course will focus on the art direction and aesthetics of layout design for computer applications. Students will be introduced to Photoshop, Illustrator, InDesign and other related programs.

**CSAT 2317 Layout Design Programming (3-0).** This course will support the technical/programming needed for CS 2316. Various programs such as Photoshop, Illustrator, and InDesign will be explored and applied for use in web pages, human-computer interfaces, and e-publishing.

**CSAT 2323 Writing for Digital Media (3-0).** The main focus of the course is the transition of invention and composition to digitally communicated formats emphasizing best practices for design, composition, and usability in the creation and implementation of digital content. Prerequisite: ENG 1302

**CSAT 2360 Mobile Program Android/MACi05 (3-0).** This class will address programming principles to be applied in Android and MAC iOS operating systems. Prerequisite: CS 1320

**CSAT 3103 Individual Studies (1-0).** In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor.

**CSAT 3121 Branding and Identity Design Development (1-0).** This course will address the developing process of branding and identity considering current market trends and its impact in society.

**CSAT 3130 Animation Programming (1-0).** A laboratory course in which students apply techniques learned in CSAT 3330 using software available in the Technology Learning Center. Concurrent enrollment: CSAT 3330

**CSAT 3160 User Interface Design (1-0).** Design related to interactive displays, interfaces, and environments for controlling a variety of computer applications including games and communication, and other programs including human-computer interface applications.

**CSAT 3301 Acting for Animation (2-2).** An Advanced study of animation techniques and approaches focused on motivation, expression, and empathy. Prerequisite: THEA 1351

**CSAT 3303 Individual Studies (3-0).** In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor.

**CSAT 3310 Art History for the Designer (3-0).** This course is a survey of the visual arts of the world tailored specifically to the needs of designers. It will cover all regions and periods of the visual arts and focus on how students can utilize historical styles for their own design work. Emphasis will be placed on how to replicate authentic and historical styles for a variety of design purposes, including gaming, print, costume, theatre, and communication design applications. Prerequisite: CSAT 2310 or FA 2302

**CSAT 3311 History of Communication Design (3-0).** This course introduces the history of visual communication, including text and image. Lectures, slides, and discussions focus on the work of important practitioners in the field and on the historical and cultural significance of design, technology, and innovation

**CSAT 3312 Advanced Webpage Design (3-0).** An advanced course in webpage and information technology design. This course will cover advanced XHTML, CSS, and interactive webpage design applications. The course will focus on art direction, layout, design, aesthetics and art production for webpages and related applications. Prerequisite: CSAT 2308

**CSAT 3316 Advanced Publication Design (3-0).** This course covers advanced methods for layout, photo, and art direction for pre- press, print, and electronic publishing. The course focuses on managing art direction and production for print and electronic publishing.

**CSAT 3320 Gaming and Screenwriting (2-2).** A class exploring how to simulate movement and life using 2-dimensional and 3- dimensional means. Students will study selected examples from history of animation and create their own short pieces in a variety of software. Prerequisites: CSAT 2315 or permission of instructor.

**CSAT 3321 Branding and Identity Design (3-0).** This course explores methods for designing effective logos, creating marketing materials, and establishing advertising programs using computer technology.

**CSAT 3330 Introduction to Maya (2-2).** This course introduces students to the techniques and concepts used to create 3-dimensional graphics using Autodesk's Maya. Students will learn how to build light and animate 3-dimensional objects for use in gaming and animation.

**CSAT 3333 User Interface Design (1-2).** User Interface Design is a course that explores how humans and machines interact with one another using the language of graphic design. Historic and current examples will be shown in class and discussed, and students will apply this knowledge to their own UI projects by working with prototyping software such as Adobe XD and Adobe Photoshop.

**CSAT 3340 Advanced Animation (2-2).** Further study of frame-by frame animation continue to develop their animation skilled through examples and projects.

**CSAT 3342 Advanced Audio Production (2-2).** Students record, edit, and mix audio for video game production. Includes techniques for voice talent. Prerequisite: CSAT 2307

**CSAT 3350 Advanced Two-Dimensional Imaging (3-0).** A course in advanced digital imaging, including creation of original digital matte paintings, illustration and photo manipulation for print, gaming and art applications. Students will work in a variety of industry standard programs including Photoshop and Illustrator. Prerequisite: CSAT 2310

**CSAT 3360 User Interface Programming (3-0).** Programming related to interactive displays, interfaces, and environments for controlling a variety of computer applications including games and communication, and other programs including human- computer interface applications. Prerequisite: CS 2315

**CSAT 3370 Game Producing (2-2).** An overview of managing the game production process, including business practices, team management, marketing, scheduling, budgeting, and contracts.

**CSAT 3380 Motion Capture (2-2).** Covers the basics of directing and capturing 3D data for use in character design and movement in videogames.

**CSAT 4301 Voice-Over Techniques (2-2).** An advanced approach to vocal production and voice-over performance utilizing audio recording equipment. Prerequisite: THEA 1351

**CSAT 4302 Advanced Maya (3-0).** This course is the further study of Maya to create 3-dimensional graphics. Students will refine the creation, lightning, texturing, and animation of their 3-d objects. Prerequisite: CSAT 3330

**CSAT 4310 Senior Capstone (3-0).** The Senior Capstone is the culminating course in the CSAT concentrations sequence. Each capstone is implemented by students with the help and encouragement of an academic advisor. Capstone experiences allow each student to demonstrate the capacity to bring information, skills, and ideas acquired from the major to bear on one significant project. It is aimed at providing students with the opportunity to integrate the knowledge and skills they have acquired as Computer Science majors as well as provide experiences for students to exhibit competent Computer Science skills within their concentration learned during their program of study in order to prepare for a career in Computer Science Applied Technology.

**CSAT 4311 Capstone II (2-2).** Continuation of Senior Capstone. Students complete a collaborative video game project and present a working product and business plan. Prerequisite: CSAT 4310

## **COMPUTER SCIENCE CYBERSECURITY (CSST)**

**CSST 1302 Introduction to Digital Forensics (3-0).** This course provides students with a basic understanding of the acquisition and investigation of evidence from devices capable of strong digital data. This course includes the role of technology in investigating and providing evidence for computer-based crime.

**CSST 1370 Cyber Ethics (3-0).** This course focuses on computer science programming ethics and management ethics with consideration for others. Students are expected to meet the learning objective of the course through a wide range of activities to include reading, viewing, researching, programing and completing lab access assignments as well as participation in collaborative projects and a community interaction project.

**CSST 2303 Individual Studies (3-0).** Investigation of special topics in Computer Science Cyber Security, conducted on an individual basis. The course may be repeated with different topics. Prerequisite: Permission of instructor.

**CSST 2306 Special Topics (3-0).** This course is a discussion of selected topics in cyber security suitable for lower-division students. This course may be repeated with different topics and offered when needed. Prerequisite: Permission of the instructor.

**CSST 2372 Fundamental Security Design and Information Assurance (3-0)** This course provides students with the fundamentals of information assurance and common security architectures with a discussion of policy, legal, ethics, and compliance. It addresses risks, security models, access controls, and legal relationships to systems such as DMZs, proxy servers, cascading, dependencies and secure network design. It also addresses HIPAA, FERPPA, the Computer Security Act, Sarbanes-Oxley, privacy, payment cards, etc. as well as State, U.S and International standards.

**CSST 2374 Cyber Threats & Defenses (3-0).** This course provides students with a basic awareness of the threats that may be present in the cyber realm and the defenses used to mitigate and defend against them. It addresses adversaries, types of attacks, network security, and vulnerabilities.

**CSST 3306 Special Topics (3-0).** This course is a discussion of selected topics in cyber security suitable for upper-division students. This course may be repeated with different topics and offered when needed. Prerequisite: Permission of the instructor.

**CSST 3322 Secure Programing Practices (3-0).** This course provides students with an understanding of the characteristics of secure programs and the ability to implement programs that are free from vulnerabilities. It addresses robust programming, defensive programming, and programming flaws. Prerequisite CS 1320 (may be concurrent).

**CSST 3340 Advanced Administration and Virtualization Security (3-0).** This course provides students with an understanding of the roles of Windows Server functions, the services provided by the server system, from basic to advanced operations involved in system security administration by utilizing virtualization technologies. It includes secure configuration of a system server, password policies, updates, patches, backups, port configuration and security scans. Prerequisite: CSST 2372

**CSST 3382 Cyber Security Planning and Management (3-0).** This course provides students with the ability to develop plans and processes for a holistic approach to cyber security for an organization. It addresses CBK, operational and tactical strategic plans and management, and making cyber security a strategy. Prerequisite: CSST 2372

**CSST 4372 Intrusion Detection/ Prevention Systems (3-0).** This course provides students with knowledge and skills related to detecting and analyzing vulnerabilities and threats and taking steps to mitigate associated risks. It addresses deep packet inspection, log file analysis, cross log comparison and analysis, host or network based intrusion detection, honeynets and honeypots. Prerequisite: CS3310

**CSST 4374 Network Defense (3-0.)** This course provides students with knowledge of the methods of analyzing and mitigating threats coming from inside or outside the network. It addresses network protocols, security devices, security services, configuration, and packet capture and analysis. Prerequisite: CSST 3310



## **CRIMINAL JUSTICE (CJ/CRIM)**

**CJ 1301 (CRIJ 1301) Introduction to Criminal Justice (3-0).** History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; police prosecution and defense; trial process; corrections. (Required for CJ)

**CJ 1302 Introduction to Homeland Security (3-0).** This course will introduce students to the organization, structure and function of Homeland Security at the federal, state, and local levels as well as in the civilian world. Constitutional issues and special criminal processing will also be discussed. (Required for HS)

**CJ 1306 Court Systems and Practices (3-0).** The student will be introduced to topics related to the functioning of the courts and judiciary system including pre-trial services, right to counsel, grand juries, adjudication processes, rules of evidence, and post-trial appeals. Prerequisite: CJ 1310

**CJ 1307 (CRIJ 1307) Crime in America (3-0).** American crime problems in historical perspective; social and public policy factors affecting crime; impact of crime and trends; social characteristics of specific crimes; prevention of crimes.

**CJ 1310 Fundamentals of Criminal Law (3-0).** The student will be introduced to concepts of criminal law including the nature of law, historical development, major definitions, classification and elements of crime and criminal responsibility. Prerequisite: CJ 1301

**CJ 1313 (CRIJ 1313) Juvenile Justice System (3-0).** Study of the juvenile justice system and juvenile crime and delinquency. Theories of delinquency.

**CJ 2302 Basic Skills for Criminal Justice (3-0).** Thinking skills such as critical thinking, legal reasoning, and social-scientific thinking. Basics of criminal justice library research including Internet and data sources. Criminal justice communication skills including report and paper writing and testifying. Ethics and Professionalism.

**CJ 2313 (CRIJ 2313) Correctional Systems and Practices (3-0).** Corrections in the criminal justice system; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.

**CJ 2321 Special Topics in Criminal Justice (3-0).** Study of selected issues in criminal justice. May be repeated when topic varies.

**CJ 2323 (CRIJ 2323) Aspects of Law Enforcement (3-0).** Police authority; responsibilities; constitutional restraints; laws of arrest, search and seizure; police liability. (Required for CJ)

**CJ 2328 (CRIJ 2328) Police Systems and Practices (3-0).** The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police community interaction; current and future issues



**CJ 2350 Current Issues in Criminal Justice (3-0).** Students will explore the crucial incidents and issues within the criminal justice system that drive changes to the system. Within an ever-changing society, members of the public and members of the criminal justice system are sometimes in conflict requiring adaptation and evolution of the system. Students will examine the dynamics of police operations involving the use of deadly force, high speed pursuits, civil disobedience and unrest, natural disasters, and homeland security. Course may be repeated as topic changes. (Required for HS)

**CJ 2351 Hate Crimes (3-0).** This course will cover issues and current research on the causes, controls, and controversies surrounding hate crimes. Students will explore issues that foster hate crimes while learning how these criminal acts impact them.

**CJ 2353 Crimes Against Children (3-0).** This course is designed to give the student a basic knowledge of the issue surrounding child abuse and neglect.

**CJ 2360 Introduction to Cybercrime (3-0).** Students will explore the history and current state of computer-related crime. Beginning with an exploration of the development of ARPANET and progressing to the interweb and social media, ethical and criminal violations at home and in the workplace. Students will discuss current federal and state laws regarding cybercrime and identify crimes. An introduction to investigative methods and security protocols are also studied.

**CJ 2362 Cybercrime Investigation (3-0).** Students will analyze criminal acts that can be committed using a computer or the Internet, including narcotics and human trafficking, arms and weapons smuggling, and pornography distribution. The students will explore how those acts can be successfully investigated and prosecuted. Legal aspects of search and seizure, and proper procedures for handling digital evidence vis-à-vis the rules of evidence. An overview of the dark web will be included. Prerequisite: CJ 1301 or CJ 1302.

**CJ 3101 Independent Study (1-0).** Independent research of a selected topic in the Criminal Justice or Homeland Security field. Prerequisite: Permission of instructor.

**CJ 3201 Independent Study (2-0).** Independent research of a selected topic in the Criminal Justice or Homeland Security field. Prerequisite: Permission of instructor.

**CJ 3302 Victimology (3-0).** Provides an in-depth study of factors that affect victims of crime. Specific crimes are studied and remedies explored; victim precipitation, self-help and prevention of victimization, victimization surveys and other data sources; history of victims' rights and the victims' rights movement and victim services.

**CJ 3303 Crime and Justice in the Movies (3-0).** Examination of the interrelationships between cinema, reality, and public opinion. Examination of stereotypes and assumptions shown in cinema as compared to fact. Study of professional, ethical, and historical issues in criminal justice as reflected in movies May be repeated when topic varies.

**CJ 3304 Wildlife Law Enforcement (3-0).** Application of investigative and evidentiary procedures to wildlife law enforcement; legal basis for wildlife laws; federal and state wildlife laws; role of wildlife law enforcement in wildlife management.

**CJ 3306 Community Corrections (3-0).** This course will focus on community corrections in the criminal justice system as an alternative to institutionalization. Students will examine the treatment

and rehabilitation concepts; probation and parole techniques; statutory and case law; case management; agency organization and administration.

**CJ 3307 Organized Crime (3-0).** Analysis of crime problems of an organized nature; economic impact upon society; laws regulating organized crime; investigation techniques.

**CJ 3311 Women and Crime (3-0).** This course is designed to give the student a basic knowledge of the issues surrounding women and their interaction with the criminal justice system. Topics covered will include women as victims of crime, as perpetrators of crime, and as workers within the system.

**CJ 3312 Criminal Investigation (3-0).** Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation, photography.

**CJ 3316 Domestic Violence (3-0).** This course is designed to give the student a basic knowledge of the issues surrounding victims and perpetrators of domestic violence. Topics covered will include victim and perpetrator characteristics, explanations for the violence, and explanations for the victim's behavior. Criminal justice responses to domestic violence situations both currently and historically will also be covered.

**CJ 3317 White Collar Crime (3-0).** This course is designed to familiarize the student with the special crimes that qualify as white collar crime. By the end of the course the student will be able to distinguish white collar offenses from other types of crimes. Additionally, students will be familiar with the criminal justice system's contemporary responses to white collar crimes.

**CJ 3320 Emergency Management (3-0).** This course covers risk management and disaster management theory, risk assessment, protection of critical infrastructure, Incident Command Systems, FEMA strategies, and other efforts to prevent and mitigate terrorist attacks, natural disasters, and other large scale events. The role of all levels of government, military, and citizenry will be examined.

**CJ 3321 Human Trafficking (3-0).** This course is designed to give the student a basic knowledge of the issues surrounding human trafficking, including organization, finance, legislation, and regional perspectives.

**CJ 3322 Cybercrime in the 21<sup>st</sup> Century (3-0).** Students will examine the developments and changes on the criminal justice system as a result of technology advancements and the introduction of computer-related crime. Discussions will include how criminals profit from technology, cybercrimes against persons, property, and institutions, and how criminal justices (law enforcement, prosecutors, courts, and corrections) have evolved to address cybercrime. Prerequisite: CJ 1301 or CJ 1302.

**CJ 3340 Criminal Justice Ethics (3-0).** An Analysis of ethical dilemmas in the criminal justice system. An exploration into situational ethics relating to practices in Criminal Justice system. This course will address many ethical scenarios encountered by law enforcement, prosecutors, court officers, and corrections staff in the performance of their duties. Students will develop an understanding of the moral and ethical issues as well as how these dilemmas are resolved.

**CJ 3341 Research Methods for Criminal Justice (3-1).** This course provides an introduction to criminal justice research methods. Students will learn how to evaluate current and conduct contemporary research in the field of criminal justice. The course introduces students to terminology and tools of the scientific method. Several data collection techniques available to criminal justice

researchers are explored and evaluated Students will learn how to evaluate academic research products in terms if their contribution to the fields of criminal justice, as well as to how to develop their own research problems. (Required for CJ and HS)

**CJ 3362 Advanced Cybercrime Investigations (3-0).** This course examines advanced investigation techniques in cybercrime cases, including internet frauds and schemes, issues in ecommerce, and threats to the national infrastructure. Cyber security policies, legal issues, and advanced investigative strategies, as well as the implications of investigations on a national and global scale will also be evaluated. Prerequisites: CJ 1301 or CJ 1302 and CJ 2362.

**CJ 3363 Police Academy I (3-0).** First of 4-part credit for Police Academy. Prerequisite: concurrent enrollment in the SRSU Police Academy and enrollment in 3364, 3365, 3366

**CJ 3364 Police Academy II (3-0).** Second of 4-part credit for Police Academy. Prerequisite: concurrent enrollment in the SRSU Police Academy and enrollment in 3363, 3365, 3366

**CJ 3365 Police Academy III (3-0).** Third of 4-part credit for Police Academy. Prerequisite: concurrent enrollment in the SRSU Police Academy and enrollment in 3363, 3364, 3366

**CJ 3366 Police Academy IV (3-0).** Fourth of 4-part credit for Police Academy. Prerequisite: concurrent enrollment in the SRSU Police Academy and enrollment in 3363, 3364, 3365

**CJ 4302 Seminar in Special Problems in Criminal Justice (3-0).** Exploration and analysis of contemporary problems related to police, courts or corrections. May be repeated for credit when topics vary.

**CJ 4303 Death Penalty (3-0).** This class is designed to examine the moral, legal, social and political aspects surrounding the death penalty issues. We will focus on the history of capital punishment both domestic and abroad. Issues of deterrence as well as how problems of discrimination are actively addressed. This course will utilize past legal and criminological research to argue both for and against the death penalty in America. This course is not designed to reinforce a student's current belief-rather to challenge and broaden their understanding of a complicated and divisive criminal/political issue.

**CJ 4304 Criminology (3-0).** Study of factors that contribute to crime; criminological theories; criminal typologies; crime trends; and criminal deviance.

**CJ 4306 Gangs (3-0).** The Gangs class is designed to introduce and guide students in the understanding of the advent and expansion of criminal gangs. Topics and discussion will focus on the history, organization, identification, and criminological theories surrounding both "street" and "prison" gangs. Emphasis will be placed on the spread of prison gangs in Texas prisons and their influence on Texas prison policy. Street gangs will be studied as an artifact of the "Drug War".

**CJ 4307 Internship (3-0).** This course is designed to give students the opportunity to apply classroom theory to actual practice. Internship may be repeated twice for credit at different agencies. It is the student's responsibility to find a suitable agency in which to intern. Students must have a 3.0 GPA and must complete a minimum of 45 hours of supervised work time. (No person may obtain internship credit for full or part time paid employment.) Prerequisite: Criminal Justice Majors only: Junior or Senior standing and permission of the Department Chair.

**CJ 4308 Terrorism (3-0).** This class is specifically designed to introduce students to the threat of terrorism both domestic and international. We will discuss the implications of all aspects of terrorism on U.S. society. Students will have an opportunity to research and present to the class specific topics of interest. We will address the religious, sociological, criminal and legal issues of the police, prosecutors, and courts. Additional focus will be on the application of "The Patriot Act" as it impacts U.S. Freedoms.

**CJ 4309 Seminar in Criminal Justice (3-0).** A seminar course addressing various aspects of the criminal justice system; topics are subject to change with each semester.

**CJ 4310 Deviant Subcultures (3-0).** This course examines the roots, structures, habits, and sociological implications of deviant subcultures. The most obvious example of a deviant subculture is criminal gangs, either street gangs or prison gangs.

**CJ 4311 Sexual Predators (3-0).** This course examines the roots, structures, habits and sociological implications of sexual predators. The most obvious example of sexual predators is the violent sexual serial killer.

**CJ 4312 Punishment (3-0).** In this course, we will review the public policy concerning the death penalty and punishment. We will further look into issues that may or may not affect the use of the death penalty within the various states.

**CJ 4313 Juvenile Delinquency and Law (3-0).** This course will focus on the nature and extent of juvenile deviant behavior; deviancy theories; juvenile statutory and case law; judicial processes; policies and police practices related to juvenile justice.

**CJ 4315 Serial Killers (3-0).** This class examines Serial Killers worldwide. Students will be exposed to numerous highly publicized Serial Killers, as well as many that are not so well known. This class will examine the root causes of these criminals and their impact on society.

**CJ 4318 Advanced Homeland Security (3-0).** This course will explore the creation and evolution of the Department of Homeland Security. Additional focus will be on the War on Terror, Weapons of Mass Destruction, new technologies and the role of civilian organizations within Homeland Security.

**CJ 4319 School Violence (3-0).** This class is designed to familiarize students with the sociological and legal issues concerning violence in schools. The subject is not limited to the United States.

**CJ 4320 Forensic Ballistics: Handguns (3-0).** This course is mainly a firearms examination course. Students will learn the historical evolution Handguns and their relationship to changes in the American society. The identification of and differences between all forms Handguns will be emphasized. This course will spend considerable time covering the usage and investigation of the criminal application of Handguns in crime, as well as, the tactical applications employed by law enforcement. The course includes considerable “hands-on” time with actual firearms.

**CJ 4321 Forensic Ballistics: Long Guns (3-0).** This course is mainly a firearms examination course. Students will learn the historical evolution of both Rifles and Shotguns and their relationship to changes in American society. The identification of and differences between all forms of “long guns” will be emphasized. This course will spend considerable time covering the usage and investigation of the criminal application of “long guns” in crime, as well as, the tactical applications employed by law enforcement. The course includes considerable “hands-on” time with actual firearms.

**CJ 4322 Topics in Homeland Security (3-0).** This course covers current and emerging issues in the area of Homeland Security. Topics may include programs, emerging technologies, and legal trends in both the domestic arena and on the global stage.

**CJ 4323 Transnational Crime (3-0).** This course is designed to introduce the student to the study of criminal organizations and their crimes on the global stage. Focus is particularly on those organizations and crimes that cross international boundaries. Areas of study include organized crime, trafficking in drugs, humans and weapons, piracy, and other crime groups and individual criminals. Global efforts and prevention, interdiction and punishment will also be covered. A particular focus will be on placing these issues in the context of Homeland Security and the war on terror.

**CJ 4324 Immigration Law and Policy (3-0).** This course will focus on the history and development of immigration patterns and policies in the United States. Emphasis will be placed on policy issues as related to the work of Criminal Justice practitioners, particularly in the post-9/11 world. Students will also be expected to analyze policy impact on various groups of immigrants.

**CJ 4330 Law Enforcement Administration (3-0).** Students will explore a comprehensive overview of practices within law enforcement administration. The history of law enforcement administration, the evolution of professional policing, as well as current issues and trends will be addressed. Emphasis will be places on issues related to human resource administration and the leadership skills required to successfully manage a law enforcement agency.

**CJ 4331 Legal Issues in Criminal Justice (3-0).** This course will be an advanced study of the various constitutional and other legal issues within all areas of criminal justice. Specific focus will be given to Texas laws, and US Supreme Court decisions affecting law enforcement or corrections. Prerequisite: CJ 1301 or CJ 1302. (Required for HS)

**CJ 4332 Constitutional Issues in Corrections (3-0).** In the course, students will explore the origins of correctional systems, and how these systems and correctional philosophies have evolved over time. Students will also study the First, Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendment rights and the theories behind those rights, as they relate to convicted prisoners and pretrial detainees. The impact of court decisions on prisons and jails. Liability and immunity of correctional personnel.

**CJ 4333 Community Policing (3-0).** Students will analyze ideas and ideals of Community Policing. Students will evaluate topics such as race, gender, economics, status, rural vs. urban, and other sensitive topics.



**CJ 4334 Police Corruption (3-0).** The class is designed to familiarize students with the sociological and legal issues concerning police corruption. Discussion will include specific “critical issues” such as, police militarization, the Police subculture, use of force, and the volatile political aspects of this issue.

**CJ 4335 Drug Identification and Enforcement (3-0).** Lectures, demonstrations, and discussions that address all aspects of drug law, identification and analysis with an emphasis on those related to law enforcement. Illicit drugs are examined for their societal impact.

**CJ 4336 Prison Gangs (3-0).** This course will focus on prison gangs, their origins and their evolution and growth within the prison system. The course will examine present-day prison gang activity in and out of the prison system and the impact of prison gangs on crime and the criminal justice system in the “free world.” By the end of the course, students will be able to understand and identify various prison gangs and have a detailed insight on the games criminals play.

**CJ 4337 Forensic Science (3-0).** The science of fingerprints and DNA is examined; a study of criminalistics and the techniques employed in the recovery, classification, and identification of crime scene evidence; the analysis and interpretation of physical evidence.

**CJ 4350 Independent Study (3-0).** The student will pursue an independent research or experiential learning project chosen by the student in consultation and approval of the instructor. Prerequisite: Approval of the instructor

**CJ 4363 Introduction of Criminal Profiling (3-0).** Students will explore the fundamental profiling. Discussions will include the definition of profiling, analysis of both the psychological basis and practical applications of criminal profiling, its uses, and historical applications in theory and practice. Students will explore the relationship between profiling and its application in crime and crime scene analysis, forensic science, and geographic profiling. Overview of applicable behavior-based criminal theories will be included. Prerequisite: CJ 130 or CJ 1302.

**CJ 4365 Cyber Warfare (3-0).** This course is an overview of cyber warfare including discussions on its strategy and impacts. Students will evaluate the use of cyber warfare by the military, terrorist, and criminal organizations. Students will examine computer network benefits and vulnerabilities, potential weaponry, and risk mitigation. Prerequisite: CJ 1301 or CJ 1302 and CJ 2360.

**CJ 4367 Cybercrime Policy and Law (3-0).** In this course, students will examine the impact of emerging technology on criminal justice policy, as well as the legal implications of changing criminal behaviors in the area of cybercrime. Particular attention will be paid to privacy issues, responses to various cybercrimes, and transnational issues such as cyber espionage and human trafficking. Prerequisite: CJ 2360.

**CJ 4368 Multiculturalism in the Criminal Justice System (3-0).** Understanding, communicating and working with persons from different cultures; basic human relations skills needed by those working in the criminal justice system; women in the criminal justice system; equal protection of the law and anti-discrimination, civil rights, sexual harassment and related laws; criminal justice ethics. (Required)

**CJ 5301 Overview and Administration of the Criminal Justice System (3-0).** An advanced and detailed overview of the criminal justice system and its administration. This course will take a systematic perspective of our system of police, courts, and corrections. Focus will be placed on how

the system, as a system, reacts to changes in legislation and social mood. Some emphasis will be placed on the legislative and political process surrounding U.S. criminal justice efforts.

**CJ 5305 White Collar Crime (3-0).** This course will cover topics relating to white collar crimes across America. Topics will cover both historical and contemporary perspectives as well as corporate and individual level offenses.

**CJ 5306 Drug Abuse (3-0).** The focus of this course is on drug use, misuse and abuse in America. Topics covered include history of drug use, laws concerning use and abuse, illicit and prescription drug abuse, drug control approaches and other relevant topics.

**CJ 5308 Special Populations in Criminal Justice (3-0).** This course will explore issues related to minorities at all levels of the system from three perspectives: employees, victims, and offenders. At the end of the course, the student should have developed a knowledge of and appreciation for the complexity of the effect of the criminal justice system on the lives of minorities in this country.

**CJ 5310 Capital Punishment (3-0).** In this course, we will review the public policy concerning the death penalty. We will further look into issues that may or may not affect the application of the death penalty within the various states. Both the history of the death penalty and the future application or abolition of the death penalty will be addressed.

**CJ 5311 Advanced Law Enforcement Administration (3-0).** Management issues in modern police agencies including hiring, retention, training, dismissal, human relations and cultural sensitivity. Communication, management styles, policy development, effectiveness, problem-solving and community policing are also covered.

**CJ 5313 Seminar in Policing (3-0).** This advanced level course will focus on the history and development of modern professional policing. Emphasis will be placed on the evolving role of police in a democracy as well as the trends toward community oriented policing styles.

**CJ 5314 Seminar in Corrections (3-0).** A course on the evolution of corrections. Theories of punishment as well as correctional management techniques will be addressed. This course will go beyond the concepts of institution corrections and will explore modern correctional alternatives and special topics relevant to corrections.

**CJ 5315 Seminar in Courts and Judiciary (3-0).** A Specialized course, which will focus on the theories of American justice. Attention will be paid to the structure of the U.S. justice system. A portion of the course will cover the role of each judicial element Federal, State and Local Courts. Students should expect some exposure to case briefs and legal research. (Required for CJ Masters)

**CJ 5316 Women and Crime (3-0).** This course will cover topics relating to women and their interaction with the various components of the criminal justice system as victims, offenders, and employees. Each of these three categories of women will be covered in the context of police, courts, and corrections. Additionally, issues relating to the rights women have in American society will be covered from a historical and contemporary perspective.

**CJ 5317 Juvenile Delinquency (3-0).** This course will focus on the nature and extent of delinquent behavior, theories of delinquency and their implications for intervention, cultural and social factors related to delinquency, as well as the philosophy and functioning of the juvenile justice



system. Emphasis will be placed on school related delinquency, the role of the media in creating delinquency panics, and the differences between males and females.

**CJ 5318 Seminar in Criminal Justice Theory (3-0).** An advanced study of theories used in Criminal Justice to explain crime and deviance. This course will require students to explain criminal and deviant behavior and apply their theoretical understanding to policy issues. (Required for CJ Masters)

**CJ 5319 Use of Force in Criminal Justice (3-0).** Study of the use of and legal rules and concepts involved in the use of force by criminal justice personnel. The course will include both legal and conceptual dimensions of the issue. Among topics to be covered are force continuums, non-lethal force, verbal judo, and alternatives to using force.

**CJ 5321 Domestic Violence (3-0).** This course will cover topics relating to domestic violence including spousal abuse, other types of family abuse, and caretaker abuse. Discussion will include possible explanations for the abuse, reasons why the victims stay, and intervention issues.

**CJ 5322 Immigration Issues (3-0).** This course will focus on the history and development of immigration patterns and policies in the United States. Emphasis will be placed on policy issues as related to the work of Criminal Justice practitioners, particularly in the post 9-11 world. Students will also be expected to analyze policy impact on various groups of immigrants.

**CJ 5323 Homeland Security (3-0).** This course will explore the various aspects of the government entity – Homeland Security. Discussion will focus on defining the role for this agency, government restructuring, legal basis for actions and the various divisions within the agency. Also, special projects undertaken in support of the agency's mission will be discussed with emphasis on the effects these will have on the various levels of government and the civilian population. (Required for HS Masters)

**CJ 5324 Social Deviance (3-0).** This course focuses on the concept of deviance, deviant behaviors, and explanations of such behaviors. Although criminal behavior is considered a form of deviance, there are plenty of legal and quasi-legal behaviors that also fall under this category. In the course, we will discuss a variety of behaviors considered deviant, such as smoking, drinking, drug use and sexual activity.

**CJ 5325 Graduate Seminar in CJ (3-0).** The student will explore legal issues, ethics, and application of criminological theories in policy making and research methods in the field of criminal justice. Historical issues and emerging trends will also be examined. This course is the capstone course for the Criminal Justice Master's program. Prerequisite: Minimum 27 hours completed towards the CJ master's degree. (Required for CJ Masters)

**CJ 5326 Victimology (3-0).** This course is designed to give the student a basic knowledge of the issues surrounding criminal victimization. Topics covered will include types of victims, reactions to victims by society and the criminal justice system, and the victim rights movement.

**CJ 5327 Graduate Seminar in Homeland Security (3-0).** The student will explore government restructuring, policy making, and research methods in the field of Homeland Security. The role of both government and non-government actors in Homeland Security will be examined. Historical issues and emerging trends will also be analyzed. The course is the capstone course for the Homeland Security Master's program. Prerequisite: Minimum 27 hours completed towards the CJ master's degree. (Required for HS Masters)

**CJ 5328 Seminar on Transnational Crimes (3-0).** This course is designed to introduce the student to the study of criminal organizations and their crimes on the global stage. Focus is particularly on those organizations and crimes that cross international boundaries. Areas of study include organized crime, trafficking in drugs, humans and weapons, piracy, and other crimes group s and individual criminals. Global efforts and prevention, interdiction and punishment will also be covered. A particular focus will be on placing these issues in the context of Homeland Security and the war on terror.

**CJ 5329 Seminar in Emergency Management and Disaster Preparedness (3-0).** This course covers risk management and disaster management theory, risk assessment, protection of critical infrastructure, Incident Command Systems, FEMA strategies and other efforts to prevent and mitigate terrorist attacks, natural disasters and other large-scale events. The role of all levels of government, military and citizenry will be examined.

**CJ 5330 Emerging Issues in Homeland Security (3-0).** This course covers current and emerging issues in the area of Homeland Security. Topics may include programs, emerging technologies, and legal trends in both the domestic arena and on the global stage.

**CJ 5331 Topics in Criminal Justice (3-0).** Intensive study of selected issues in Criminal Justice. May be repeated when topic varies.

**CJ 5333 Internship (0-3).** Supervised work experience in an approved criminal justice agency. Designed to allow the student to synthesize theory and practice. It is the student's responsibility to find a suitable agency at which to intern. To be eligible the student must have a minimum GPA of 3.5. A minimum of 45 supervised hours will be required. A student's compensated employment may not be utilized as an internship. Prerequisite: Permission of the Graduate Coordinator.

**CJ 5334 Methods of Social Research (3-0).** An introduction to research methods within the social sciences and the major contemporary approaches to it. (Required for CJ and HS Masters)

**CJ 5335 Human Trafficking (3-0).** This course is designed to give the student a basic knowledge of the issues surrounding human trafficking. Topics covered will include the rise of human trafficking, the financial side of human trafficking, legislation and regional perspectives on human trafficking as well as women and children as sex slaves.

**CJ 5336 Seminar on Domestic Terrorism (3-0).** This class is specifically designed to introduce students to the threat of domestic terrorism. We will discuss the implications of all aspects of such terrorism on U.S. society and on the world at large. We will address the root causes of such behavior and the international response to incidents and actors. Additional focus will be on the application of "The Patriot Act" as it impacts U.S. freedoms.

**CJ 5337 Seminar on International Terrorism (3-0).** This class is specifically designed to introduce students to the global threat of international terrorism. We will discuss the implications of all aspects of such terrorism on U.S. society. We will address the root causes of such behavior and the criminal justice response to incidents and actors. Additional focus will be on the Department of Homeland Security and its anti-terrorism programs and policies.

**CJ 5338 Cybersecurity (3-0).** This course introduces students to the wide range of modern communication technologies. Use of these technologies by government and business entities for intelligence gathering, their limitations, and vulnerabilities are introduced to the students. An overview of the history of computer hacking is covered. Additionally, a brief overview of law and policy concerning cyber communications are discussed beginning with the National Security Act of 1947.

**CJ 5339 Ethical Issues in the Criminal Justice System (3-0).** Students will examine ethical issues related to criminal justice administration. The origin and effect of ethical standards as well as ethical leadership will be addressed. Emphasis on the role of ethical decision making in policy making and the establishment of agency values, as well as the value paradigm of community policing will be explored.

**CJ 5340 Policy Making in Criminal Justice (3-0).** Students will explore a comprehensive overview of policy making within law enforcement including the history of law enforcement administration, the evolution of professional policing, and current issues and trends. (Required for HS Masters)

**CJ 5341 Criminal Sexual Behavior (3-0).** Students will evaluate the nature and etiology of sex crimes and avenues by which the criminal justice system addresses these crimes and criminals. Law and policies related to sex offender control and registration, and best practices regarding treatment and therapies for various types of sex offenders will be discussed.

**CJ 5342 Women in Policing (3-0).** This course will examine the role of women in law enforcement positions across the United States including historical and contemporary perspectives on women in policing. The experience of women of color will be emphasized.

**CJ 5343 Crimes Against Children (3-0).** This course focuses on, child maltreatment, neglect and abuse (physical, sexual, psychological). Students will discuss extreme forms of abuse, such as child sexual trafficking and forced prostitution. Students will also study those who commit these crimes and intervention and prevention strategies.

**CJ 5350 Independent Study (3-0).** The student will pursue an independent research or experiential learning project chosen by the student in consultation and approval of the instructor. Prerequisite: Approval of the instructor

**CJ 5360 Seminar in Cybercrime (3-0).** This course discusses how perpetrators use high-technical means in order to commit a diverse range of criminal activities. These include attacks against computer data and systems, identity theft, and distribution of child sexual abuse images, internet fraud, the penetration of online financial services, as well as the deployment of viruses, Botnets, and various email scams such as phishing. Methods of mitigation and prevention are addressed.

**CJ 5361 Seminar in Criminal Profiling (3-0).** Students will examine the dynamics of individual criminal acts utilizing inductive and deductive methodology to profile criminal behavior, offender characteristics, crime scene investigation, evidence collection, and case linkage of specific categories of crime. Topical areas in this seminar will include cybercrime, serial crime, stalking, and other criminal behaviors and acts related to technology grounded crimes.

**CJ 5362 Criminology of Cybercrime (3-0).** This course will discuss various types of criminal conduct associated with computers and the Internet. Specific emphasis will be placed on, and will assess, criminological theories of crime as they relate to cybercrime and cyber terrorism.

**CJ 5363 Seminar in Cybercrime Law and Policy (3-0).** This course addresses issues related to how emerging technologies challenge existing legal paradigms; how countries regulate criminality across political boundaries; what the new paradigm means for individual rights and privacy; and how law enforcement is evolving to meet the demands of the modern world. This course includes an in-depth analysis of case law and various statutes related to cyber intrusions, data theft, and crimes against persons.

**CJ 5364 Seminar in Cyber Warfare (3-0).** This course explores an in-depth analysis of the policy, doctrine, and strategy of conducting warfare at the national and international level. This course will examine cyber terrorism, cyber espionage, and other attack paradigms, as well as an examination of defense strategies to repel attacks.

**CJ 5365 Seminar in Cybercrime Investigations (3-0).** This course is a graduate level seminar in the investigation of cybercrimes, with a particular emphasis on Internet fraud schemes, e-Commerce, and dark web related criminal activity. The course also discusses legal issues, investigative techniques and strategies, and implications of investigations based on jurisdictional limitations.

**CRIM 3300 History of Criminal Justice (3-0).** A survey of criminal justice history; a study relating to the developments in American law, police practice and penology in Western civilization. Major American and European theories of criminal justice are studied.

**CRIM 3302 Victimology (3-0).** Provides an in-depth study of factors that affect victims of crime. Specific crimes are studied and remedies explored; victim precipitation, self-help and prevention of victimization, victimization surveys and other data sources; history of victims' rights and the victims' rights movement and victim services.

**CRIM 3304 Law & Society (3-0).** An analysis of the American criminal justice system; an overview of the history, philosophy, and contemporary functions of the separate institutions which contribute to the process; the police, courts, corrections, and juvenile justice systems will be examined for their contributions, assumptions, and interrelations.

**CRIM 3305 Substantive Law (3-0).** A study of the philosophical foundations of American law; a survey of applied criminal law with an emphasis on the most common criminal offenses; an examination of the Texas Penal Code.

**CRIM 3306 Community Corrections (3-0).** This course will focus on community corrections in the criminal justice system as an alternative to institutionalization. Students will examine the treatment and rehabilitation concepts; probation and parole techniques; statutory and case law; case management; agency organization and administration.

**CRIM 3308 Law of Evidence (3-0).** An examination of the rules of evidence and the procedures for obtaining it with special emphasis on application in criminal court.

**CRIM 3312 Criminal Investigation (3-0).** Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation, photography.

**CRIM 3316 Domestic Violence (3-0).** This course is designed to give the student a basic knowledge of the issues surrounding victims and perpetrators of domestic violence. Topics covered will include victim and perpetrator characteristics explanations for the violence and explanations for the victim's behavior. Criminal justice responses to domestic violence situations both currently and historically will also be covered.

**CRIM 3340 Criminal Justice Ethics (3-0).** An Analysis of ethical dilemmas in the criminal justice system. An exploration into situational ethics relating to practices in Criminal Justice system. This course will address many ethical scenarios encountered by law enforcement, prosecutors, court officers, and corrections staff in the performance of their duties. Students will develop an understanding of the moral and ethical issues as well as how these dilemmas are resolved.

**CRIM 3341 Research Methods for Criminal Justice (3-1).** This course provides as introduction to criminal justice research methods. Students will learn how to evaluate current and conduct contemporary research in the field of criminal justice. The course introduces students to terminology and tools of the scientific method. Several data collection techniques available to criminal justice researchers are explored and evaluated Students will learn how to evaluate academic research products in terms if their contribution to the fields of criminal justice as well as to how to develop their own research problems. (Required for CJ and HS)

**CRIM 4300 American Corrections (3-0).** An overview of state and federal correctional systems; methods of treatment of offenders and humanistic approach to corrections, institutional and community sanctions, and correctional administration is studied.

**CRIM 4302 Constitutional Law (3-0).** An analysis of the role of the U.S. Supreme Court and the appellate courts in protecting individual rights and civil liberties with a focus on litigation involving provisions of the Bill of Rights.

**CRIM 4304 Criminology (3-0).** Study of factors that contribute to crime; criminological theories; criminal typologies; crime trends; and criminal deviance.

**CRIM 4305 Procedural Law (3-0).** A study of criminal procedure and the procedural rules for the judicial enforcement of criminal law; a survey of due process; and an examination of the Texas Code of Criminal Procedure.

**CRIM 4306 Individual Research (3-0).** Research projects to be offered as individual study under the supervision and guidance of the instructor. Permission is required from the instructor and/or Department Chair before enrolling.

**CRIM 4307 Internship (3-0).** The course has been designed to give students the opportunity to apply classroom theory to actual practice. Students who qualify are assigned to work at a federal, state, or local agency in the criminal justice arena while attending a weekly seminar on campus. Internships may be repeated for additional credit at a different agency.

**CRIM 4309 Seminar in Criminal Justice (3-0).** A seminar course addressing various aspects of the criminal justice system; topics are subject to change with each semester.

**CRIM 4310 American Courts (3-0).** A survey of the Dynamics of the state and federal judicial system; the interrelated relationship of the judge, jury, prosecutor, and defense; judicial theory, and an in-depth study of the criminal case within the court.

**CRIM 4313 Juvenile Delinquency and Law (3-0).** This course will focus on the nature and extent of juvenile deviant behavior; deviancy theories; juvenile statutory and case law; judicial processes; policies and police practices related to juvenile justice.

**CRIM 4324 Immigration Law and Policy (3-0).** This course will focus on the history and development of immigration patterns and policies in the United States. Emphasis will be placed on policy issues as related to the work of Criminal Justice practitioners, particularly in the post-9/11 world. Students will also be expected to analyze policy impact on various groups of immigrants.

**CRIM 4330 Law Enforcement Administration (3-0).** Students will explore a comprehensive overview of practices within law enforcement administration. The history of law enforcement administration, the evolution of professional policing, as well as current issues and trends will be addressed. Emphasis will be placed on issues related to human resource administration and the leadership skills required to successfully manage a law enforcement agency.

**CRIM 4332 Constitutional Issues in Corrections (3-0).** In the course, students will explore the origins of correctional systems, and how these systems and correctional philosophies have evolved over time. Students will also study the First, Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendment rights and the theories behind those rights, as they relate to convicted prisoners and pretrial detainees. The impact of court decisions on prisons and jails. Liability and immunity of correctional personnel.

**CRIM 4335 Drug Identification and Enforcement (3-0).** Lectures, demonstrations, and discussions that address all aspects of drug law, identification and analysis with an emphasis on those related to law enforcement. Illicit drugs are examined for their societal impact.

**CRIM 4337 Forensic Science (3-0).** The science of fingerprints and DNA is examined; a study of criminalistics and the techniques employed in the recovery, classification, and identification of crime scene evidence; the analysis and interpretation of physical evidence.

**CRIM 4368 Multiculturalism in the Criminal Justice System (3-0).** Understanding, communicating and working with persons from different cultures; basic human relations skills needed by those working in the criminal justice system; women in the criminal justice system; equal protection of the law and anti-discrimination, civil rights, sexual harassment and related laws; criminal justice ethics.



## **ECONOMICS (ECO/ECON)**

**ECO 2301 (ECON 2301) Principles of Macroeconomics (3-0).** An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy.

**ECO 2302 (ECON 2302) Principles of Microeconomics (3-0).** Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

**ECO 3300 Monetary Theory and Banking (3-0).** Course explores the structure of financial markets, money and its components, the banking system, the Federal Reserve System and the role of monetary policy.

**ECO 4303 Current Economic Financial Problems (3-0).** Examination and analysis of the more important and more pressing economic problems of the nation and world.

**ECO 4304 International Economics & Finance (3-0).**

**ECO 4305 Advanced Readings and Research in Economics and Finance (3-0).** Selected topics in economics and/or finance to be offered as a seminar or individual study.

**ECO 5301 Comparative Economic Thought-Free Enterprise (3-0).** Survey of the four influential schools of economic thought – Austrian, Keynesian, Monetarist, and Marxist. Emphasis on the development of capitalist theory and free markets as these influenced the economy of the United States. Original works will be reviewed and discussed in the context of recent events.

**ECO 5303 Managerial Economics (3-0).** Economic analysis applied to business problems including cost and revenue measurement, profit planning, and market structure. Special emphasis is placed on optimizing techniques, basic econometrics, and business forecasting.

**ECO 5304 Research and Readings in Economics (3-0).** Class directed reading or research in a particular field of economics. The course may be repeated for credit when the topic varies.

**ECO 5305 Monetary Economics (3-0).** A study of the financial services industry, banking and financial regulations, money, and central banking. Emphasis on monetary theory and policy.

**ECON 3301 Intermediate Economics (3-0).** A macro-micro survey that examines supply, demand, and price theory, including aggregated demand, aggregate supply, macroeconomic instability, unemployment and inflation. Fiscal and monetary policy, money and banking, taxes, deficits, and the national debt are also examined. Includes a survey of contemporary microeconomic problems and includes consumer behavior, elasticity, production and costs, and a thorough examination of market structures and pricing and production policies.

**ECON 4304 International Economics (3-0).** Trade among nations, trends in United States exports and imports, foreign exchange and balance of payments and economic aid to foreign countries are covered. Prerequisite: ECON 2301 (SWTJC)



**ECON 4305 Advanced Readings and Research in Economics (3-0).** Selected topics in economics to be offered as a seminar in individual study to meet student needs. May be repeated once for credit with departmental approval. Prerequisite: ECON 2301 (SWTJC)

**ECON 4306 Comparative Economics (3-0).** A comprehensive study of the organization, operation, and performance of selected economic systems, economic issues, and alternative economic policies among different countries. Prerequisite: ECON 2301 (SWTJC)

**ECON 5301 History of Economic Thought (3-0).** A survey of economic thought and economic thinkers from medieval times to the present day. Emphasis is placed on Pre-Classical, Classical, Keynesian, and Twentieth- Century paradigms.

**ECON 5302 Seminar in Economic Affairs (3-0).** Selected topics in economics appropriate to graduate study and may include free enterprise economics; global economics; economics of social issues and development of economic thought. May be repeated for graduate credit when course topic changes.

**ECON 5303 Managerial Economics (3-0).** Economic analysis applied to business problems including cost and revenue measurement, profit planning, and market structure. Special emphasis is placed on optimizing techniques, basic econometrics, and business forecasting.

## **EDUCATION (ED/EDUC)**

**Educational certification programs are being revised. It is important to check with an advisor in the major field each semester for updated information.**

**ED B100 BASE Reading Review (0-0).** This course is a six-hour review of ED 0200 BASE Reading Skills.

**ED 0200 BASE Reading Skills (2-0).** This course is designed for students whose score on an approved assessment instrument does not meet the minimum developmental education requirement. In the course, students will develop basic reading skills. Topics included in this course are building vocabulary, defining context clues; identifying main and supporting ideas; identifying author's purpose and tone. Credit in this course cannot be used to satisfy requirements for any degree.

**ED 0300 Reading Skills (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the reading portion of the assessment. In this course, students will develop reading and study skills. Topics included in this course are defining vocabulary in context; identifying stated, implied main ideas and central point; identifying details that support and differentiate between fact or fiction; identifying author's purpose and tone; determining points and support of a critical argument. This course will emphasize correction of reading problems identified through diagnosis. Credit in this course cannot be used to satisfy requirements for any degree. Students must earn a grade of C or better to progress to any intensive reading course.

**ED 2303 Trends in Education (3-0).** This course explores the transformative power of education in a democratic society. The goal is to develop a clear understanding of current trends and issues in education for all citizens and those interested in a teaching career.

**ED 3300 Principles of Education (3-0).** A course for teachers that includes the legal and ethical aspects of teaching, and the recognition of and response to signs of abuse and neglect in children; structure, organization, and management of the American school system, with emphasis on the state and local structure in Texas. Prerequisite: Completion of Blocks I and II.

**ED 3301 Curriculum and Instruction for Classroom Teachers (1-2).** A course designed for the classroom teacher with emphasis on appropriate curriculum and instruction for the classroom. This course will provide companion theory and practice to ED 3303 with field work. Includes 10 hours of field experience. Prerequisite: Completion of Block I.

**ED 3302 Developmental and Learning Theories (3-0).** An integrated study of correct developmental and learning theories pertaining to human physical, cognitive, emotional and cultural development. Includes 10 hours of field experience. Prerequisite: Admitted to Block I.

**ED 3303 Methods and Materials for the Classroom Teacher (1-2).** A course designed for the classroom teacher with an emphasis on practical, hands-on techniques, classroom management and field experience. Prerequisite: Completion of Block I

**ED 3304 Human Growth & Development (3-0).**

**ED 3307 Technology in the Instructional Setting (3-0). Education Specialization.** This course prepares teachers to plan, organize, deliver, and evaluate instruction that incorporates the effective use of current technology. Includes 20 hours of field experience.

**ED 3308 Language Acquisition and Emergent Literacy (3-0). Education Specialization.** A course in language acquisition in children. Developmentally appropriate activities, diversity, and individual learning styles found in the educational setting are discussed as they facilitate language in young children. All theories and activities are presented as they ultimately contribute to an integrated curriculum. This course supports competencies within the Evaluative measure as identified by the State of Texas for Teaching Certification. In addition, this course utilizes the competencies presented for Early Childhood-6<sup>th</sup> Grade as identified by the State of Texas.

**ED 3309 Early Childhood: The Young Child (3-0).** A study of the growth and development of infancy and early childhood with detailed case studies of a kindergarten age child.

**ED 3312 Fine Arts in the Classroom (3-0).** Course is designed to introduce students to the principles of art, music, and theatre that can be related to the expressive and developmental needs of children in the Early Childhood-Sixth grade classroom. Students will learn basic techniques, activities, and strategies for integrating art, music, and theatre into the EC-6 curriculum.

**ED 3314 Language Arts/Social Studies Methods (3-0). QEP MAPPED COURSE** A study of the methods and strategies in teaching language arts and social studies in the elementary grades, including vocabulary, comprehension and comprehension development, composition grammar, and handwriting. Classroom management, instructional materials, curricula, and measurement analysis and response best practices are presented. Activities focus on development of lesson plans, instructional materials, visual aids, and assessment of student progress. This course supports competencies within the Evaluative measure as identified by the State of Texas for Teaching Certification. In addition, this course utilizes the competencies prescribed for Early Childhood-6<sup>th</sup> grade as identified by the State of Texas. Prerequisite: ED/EDUC 4308 and ED/EDUC 3308

**ED 4306 Survey of Exceptional Children (3-0). Education Specialization.** A survey of exceptional children involving categorical identification, learning characteristics, instructional intervention, and adjustment needs.

**ED 4307 English/Language Arts in the Classroom (3-0).** This is a course in methods and strategies in teaching English/Language Arts curriculum in the public schools. Topics include but are not limited to the essential elements of listening, speaking, reading, writing (composition, handwriting conventions, and spelling), language (English grammar and usage) curricula, instructional materials, assessment and evaluation.

**ED 4308 The Teaching of Reading (3-0).** Intensive study of the foundations of reading readiness, beginning reading, remedial reading, reading assessment, reading devices, and the use of audio-visual aids in reading instruction. Topics presented in this course will provide an understanding of reading pedagogy, best practices for reading assessment, and foundational skills for reading development. This course serves as a foundation to the reading component and is encouraged to be taken as the first course of the reading component.

**ED 4310 Social Studies in the Classroom (3-0).** This is a course in methods and strategies in teaching social studies curriculum in the public schools. Topics include, but are not limited to, citizenship, historical knowledge, political systems, socioeconomic systems, historical inquiry, curricula, instructional materials, and assessment and evaluation.

**ED 4313 Reading Comprehension and Enrichment (3-0). Education Specialization.** An intense course for the development and teaching of phonics, vocabulary, structural analysis, context clues to enhance comprehension for all readers. This course will prepare Candidates to provide multisensory instruction and culturally responsive intervention in the following reading areas: vocabulary development, critical-analytical reading, research based strategies, and metacognition approaches to assist with understanding literacy texts and informational texts. This course supports competencies within the Evaluative measure as identified by the State of Texas for Teaching Certification. In addition, this course utilizes the competencies prescribed for Early Childhood-6<sup>th</sup> grade as identified by the State of Texas. Prerequisite: ED/EDUC 4308 and ED/EDUC 3308

**ED 4314 Reading Skills for Content Subjects (3-0). QEP MAPPED COURSE** Methods and materials for teaching skills needed for locating, interpreting, and organizing reading materials used in science, social studies, math and the other content subjects. Includes interpretation of graphic aids, skimming and scanning. Includes 10 hours of field experience. Prerequisite: Admission to Teacher Education

**ED 4315 Reading Diagnosis and Remediation (3-0).** Assessment, diagnostic, and remediation techniques to use in the classroom to determine how to best assist candidates with reading assessment and identify reading problems. This course supports competencies within the Evaluative measure as identified by the State of Texas for Teaching Certification. In addition, this course utilizes the competencies prescribed for Early Childhood-6<sup>th</sup> grade as identified by the State of Texas.

**ED 4317 Diverse Populations in the Regular Classroom (3-0).** Instructional strategies addressing diversity in the regular classroom, with emphasis upon students with cultural differences, limited English proficiency, educational disabilities, and/or gifts and talents. Prerequisites: Approval of the Director of Teacher Education; Completion of Blocks I and II.

**ED 4322 Classroom Management (3-0).** This course presents practical methods for creating a positive learning environment working with behavior problems and dealing with a range of challenges in the K-12 classroom. An online format that provides discussion opportunities during student teaching. Prerequisite: Approval of Coordinator of Field Experiences; completion of Blocks I and II.

**ED 4327 Readings and Research (3-0). Education Specialization.** A course taught on an individual basis wherein special topics are studied. Course content varies according to needs of the student.

**ED 4399 Special Topics (3-0). Education Specialization.** A course covering various topics in the field of education. May be repeated for credit when topic varies. Prerequisite: Approval of advisor.

**ED 4601 Student Teaching in the Elementary School (0-6).** The course serves as a capstone experience for teacher candidates enrolled in the teacher education program. Students are required to work within their placement campuses and fulfill the responsibilities and obligations outlined in the student teaching handbook. Students are expected to serve in a teaching and leadership role in public school classroom(s) under the supervision of an experienced cooperating teacher and university supervisor. Prerequisite: Approval of the Director of Teacher Education. Student Teaching fee: \$125

**ED 4602 Student Teaching in the Middle School (0-6).** The course serves as a capstone experience for teacher candidates enrolled in the teacher education program. Students are required to work within their placement campuses and fulfill the responsibilities and obligations outlined in the student teaching handbook. Students are expected to serve in a teaching and leadership role in the public school classroom(s) under the supervision of an experienced cooperating teacher and university supervisor. Prerequisite: Approval of the Director of Teacher Education. Student Teaching fee: \$125

**ED 4603 Student Teaching: All-level Certification (0-6).** The course serves as a capstone experience for teacher candidates enrolled in the teacher education program. Students are required to work within their placement campuses and fulfill the responsibilities and obligations outlined in the student teaching handbook. Students are expected to serve in a teaching and leadership role in a public school classroom(s) under the supervision of an experienced cooperating teacher and university supervisor. Prerequisite: Approval of the Director of Teacher Education. Student Teaching fee: \$125

**ED 4605 Student Teaching in the Secondary School (0-6).** The course serves as a capstone experience for teacher candidates enrolled in the teacher education program. Students are required to work within their placement campuses and fulfill the responsibilities and obligations outlined in the student teaching handbook. Students are expected to serve in a teaching and leadership role in a public school classroom(s) under the supervision of an experienced cooperating teacher and university supervisor. Prerequisite: Approval of the Director of Teacher Education. Student Teaching fee: \$125

**ED 5100 Pedagogy of Mathematics for the English Language Learner (1-0).** This course is for teachers of mathematics and introduces basic concepts associated with the effective teaching of mathematics to English language learners (ELL) on the Math STAAR objectives. Three areas covered are: best practices for ELL (Spanish), mathematics vocabulary, and dual language problem solving.

**ED 5300 Internship in Teaching I (0-3).** Required for post-baccalaureate certification candidates seeking to satisfy the teaching requirement by teaching full-time as a teacher of record in an accredited school, jointly supervised by University faculty and school district personnel. This is the first semester of the Internship. Prerequisite: Must be accepted in the Post-Baccalaureate Initial Certification Program. Internship/Practicum fee: \$300

**ED 5301 Internship in Teaching II (0-3).** Required for post-baccalaureate certification candidates seeking to satisfy the teaching requirement by teaching full-time as a teacher of record in an accredited school, jointly supervised by University faculty and school district personnel. This is the second semester of the Internship. Prerequisite: ED 5300. ED 5301 must be taken the next consecutive long semester after successful completion of ED 5300; must be accepted in the Post-Baccalaureate Initial Certification Program. Internship/Practicum fee: \$300

**ED 5302 The Principalship (3-0).** A course designed especially for elementary and secondary school principals in which the role, scope and function of the principalship is thoroughly studied.

**ED 5305 Technology in the Educational Setting (3-0).** This course will focus on technology for content-area instruction, instructional software, multimedia presentations, telecommunications, data organization, and student projects. Issues regarding equity, copyright law and fair use will be included.

**ED 5306 Assessment of Individual Intelligence (3-0).** Required for educational diagnostician certification. Students will administer, score, and interpret major assessment instruments used to determine eligibility and services provided through special education. Legal requirements and ethical practices will be stressed. Prerequisite: ED 5323.

**ED 5307 Graduate Research (3-0).** A course designed to broaden the perspectives of graduate students and to introduce them to the techniques of research and the various fields of graduate work offered on this campus. Must be completed in first 12 sch.

**ED 5308 Foundations of Literacy (3-0).** This course is designed to follow the development of the reader from early childhood to the adult reader perspective. This course investigates best practices as they relate to reading theories and research so that candidates can explain, compare, contrast, apply and critique literacy education practices through professional collaboration. This course also examines instructional techniques regarding oral language, phonological and phonemic awareness, print awareness, word identification, fluency, comprehension, vocabulary, written language, assessment, instruction addressing individual needs and topics associated with exceptional students. This class is designed to provide students with a foundation of knowledge about teaching literacy, reading and writing, as an interactive process focusing on extracting meaning from print.

**ED 5309 Introduction to School Administration (3-0).** An overview of school administration that includes roles functions and duties of those who administer and supervise in the schools. Policy development planning goal setting program evaluation and accreditation standards are also included.

**ED 5310 Organization and Structure of the Public School Curriculum (3-0).** A course designed for post-baccalaureate students pursuing teacher certification. Emphasis will be upon developmental appropriate curriculum design, qualitative and quantitative evaluation, and classroom organization.



**ED 5311 Improvement of Instruction in the Public School (3-0).** A course designed for post-baccalaureate students pursuing teacher certification. Emphasis will be upon learner-centered practices in specific academic areas, and effective teaching behaviors for diverse learners.

**ED 5312 Advanced Survey, Exceptional Children (3-0).** A survey of exceptional children involving categorical identification, terminology, advocacy litigation, legislation at the national and state levels, and state guidelines, involving special populations.

**ED 5313 Career Development and Life Planning (3-0).** A study of career development theory; systems of career awareness, exploration, preparation, and growth, and their application to career counseling, career guidance, career decision making, life planning, and career education. Prerequisite: ED 7302.

**ED 5314 Personality and Counseling Theory (3-0).** A study of human personality dynamics as related to counseling theory and practice, emphasis on modern humanistic and phenomenological theories as they apply to counseling and developmental guidance. Must be taken within the first 12 hours.

**ED 5315 Assessment in Counseling (3-0).** An introduction to testing and assessment for use in counseling individuals and groups, including: basic psychometric theories and approaches to appraisal; psychometric statistics; factors influencing appraisals, data and information gathering; and use of appraisal results in the helping process. Also addresses test selection, test administration, and the dynamics of test interpretation. Prerequisite: ED 5314

**ED 5316 Multicultural Perspectives in Education (3-0).** This course is designed to examine theoretical and practical issues of diversity. Multicultural perspectives such as culture, race, gender, ethnicity, language, exceptionality, class, age, differentiated lifestyles, religion and socio-economic levels will be critically examined to develop awareness and sensitivity to the rich diversity of all students in American public schools.

**ED 5317 History, Philosophy, and Trends in Education (3-0).** This course is a survey of the historical, philosophical and contemporary landscape of schools in the United States. Emphasis is placed on enduring debates about the purposes of education in a democratic society.

**ED 5318 Management and Development of Human Resources (3-0).** A comprehensive study of the human resource function in public schools. Included are job analyses, staffing needs, recruitment, selection, placement, induction, evaluation, appraisal, and development of school personnel at all levels.

**ED 5319 School Law (3-0).** A study of general laws applying to all states concerning education, and in-depth study of cases and decisions affecting current education.

**ED 5320 Assessment in Multi-Tiered Systems of Support (3-0).** Explain assessment and student support within a continuum of services and settings in schools and communities. Procedures for student screening, pre-referral, including Response to Intervention (RtI): Referral: and eligibility will be of focus.

**ED 5321 Foundations of Special Education Law (3-0).** A course designed to provide an understanding of the laws governing the area of special education, focusing on current law as such as IDEA, Section 504, and ADA, as well as the legal aspects of the development and implementation of IEPs and IFSPs. Previous cases impacting special education will be examined.

**ED 5322 Behavior Management (3-0).** An in-depth look at classical and operant conditioning principles from the standpoint of human application, from the classroom to the home, from private practice to institutional placements. Actual behavior modification project included. Prerequisite: Approval of instructor.

**ED 5323 Appraisal of Educational Disabilities (3-0).** Required for educational diagnostician certification. Students will administer, score, and interpret major academic achievement tests used to identify educational disabilities, and design appropriate instruction and services. Students will examine current trends in programs designed for early identification and intervention of possible educational disabilities. Factors involved in multicultural assessment will be addressed. Prerequisite: Instructor's approval.

**ED 5324 Advanced Educational Psychology (3-0).** An advanced study in the sets of circumstances that are present when human learning occurs, including the conditions that govern learning beyond the traditionally studied prototypes of response conditioning and association.

**ED 5325 Evidence Based Interventions for Exceptional Learning (3-0).** Develop research-based interventions in academics and behavior for the students with high incidence disabilities. Functional behavior assessment and a behavior plan will be developed in addition to academic interventions.

**ED 5327 Readings and Research (3-0).** A course taught on an individual basis wherein special topics are studied. Course content varies according to needs of the student. Prerequisite: Approval of advisor and instructor.

**ED 5327 Readings & Research (3-0).** A course taught on an individual basis wherein special topics are studied. Course content varies according to needs of the student. Prerequisite: Approval of advisor and instructor.

**ED 5332 Educational Research I (8-0).** A course designed to broaden the perspectives of education graduate students and to introduce them to the techniques of educational research that promote data-driven decision-making on their campuses. Must be completed in first 6 sch.

**ED 5333 Educational Research II (8-0).** An advanced course designed for education graduate students to apply the techniques of educational research that promote data-driven decision-making on their campuses by completing a statistically-sound data-driven educational research project on an identified need of their school campus related to student achievement.

**ED 5350 Nature of Gifted and Talented Students (3-0).** Introduction to the intellectual, social, and emotional characteristics of gifted and talented individuals with emphasis on educational needs. Includes varied concepts of giftedness and research findings on creativity.



**ED 5351 Curriculum for Gifted and Talented Students (3-0).** Methods and materials to meet the needs of gifted, talented, and creative students. Individual assessment, curriculum modification, instructional materials, and classroom organization will be covered. Includes theories and models of creativity and high-level thinking.

**ED 5352 Social/Emotional Development of the Gifted and Talented (3-0).** Affective growth and potential adjustment problems of gifted students. Emphasis on self-concept, career concerns, peer relationships, and family interactions.

**ED 5353 Program Planning for Gifted and Talented Students (3-0).** Instruments and procedures for identification of gifted, talented and creative students. Program models and evaluation and implementation of programs are also covered.

**ED 5360 Professional Roles and Responsibilities (3-0).** A course that provides an understanding of the roles and responsibilities of teaching that includes knowledge of legal and ethical issues and requirements for teachers; professional knowledge and skills needed for communicating and collaborating with professional colleagues, the community, and families; and the importance of family involvement in children's education. A course designed to meet the needs of those seeking initial teacher certification through the PBICP alternative certification route.

**ED 5361 Teaching Diverse Learners (3-0).** A course that provides the understanding of the diverse nature of learners encountered in EC-12 classrooms; includes an in-depth look at how the teacher creates a classroom environment of respect and rapport that fosters a positive climate for learning, equity, and excellence for all learners. Topics include: Special education students, at-risk students, gifted and talented students, emotional and physical impairments, and cultural diversity. A course designed to meet the needs of those seeking initial teacher certification through the PBICP alternative certification route.

**ED 5627 Clinical Teaching in the Post Baccalaureate Program (0-6).** The course serves as a capstone experience for teacher candidates enrolled in teacher education program. Students are required to work within their placement campuses and fulfill the responsibilities and obligations outlined in the student teaching handbook. Students are expected to serve in a teaching and leadership role in a public school classroom(s) under the supervision of an experienced cooperating teacher and university supervisor. Internship/Practicum fee: \$300

**ED 6304 Organization and Theory in Administration (3-0).** Current trends, issues and problems in the elementary and secondary schools involving the planning, organizing, administering and evaluating the total school system.

**ED 6305 Curriculum Instruction and Assessment (3-0).** A course which introduces education graduate students to public school curriculum and its adoption process in Texas; Instruction and how to improve it to positively impact student achievement; and assessment and how to measure student success. Students will be introduced to the topics among others of the change process horizontal and vertical alignment scope and sequence and rigor.

**ED 6308 Advanced Human Growth and Development (3-0).** A study of the life span human development from conception to death, encompassing physical, social and emotional theories of development. Including an emphasis on childhood and adolescence, and the implications for effective academic and interpersonal experiences.

**ED 6311 Emergent Literacy and Language Development (3-0).** This advanced course is a requirement for the Master of Education Language and Literacy program. It is designed to provide students with an understanding of the components of reading and the strength and needs of individual students. This course will demonstrate how young children become literate, how language is acquired, and how competence in oral language supports the development of reading and writing. Attention will also be given to the critical role adults play in fostering the literacy development of young children.

**ED 6313 Teaching Reading in the Content Areas (3-0).** This course investigates best practices as they relate to reading theories and research so that professionals can explain, compare, contrast, develop and critique literacy education practices. The purpose of the course is to learn the most effective ways of helping students with reading comprehension, writing, speaking, listening, viewing and researching across disciplines in K-12. This class is designed to provide students with a foundation of knowledge about the language of each discipline through the interactive process focusing on extracting meaning from print and all mediums.

**ED 6314 Diagnosis and Correction of Reading Disabilities (3-0).** This course is designed to identify and address the symptoms and causes of reading difficulties and disabilities. Methods of assessment and diagnosis will be addressed through course readings and discussions and will be applied in field opportunities. Intervention and remediation techniques will also be addressed throughout the course. Assessment techniques which can be applied in the classroom with individual students or groups of students will be examined.

**ED 6316 Seminar in Counseling (3-0).** Issues and topics in counseling; may be repeated twice if course content varies.

**ED 6317 Organization and Supervision of Reading Programs (3-0).** The intention of this course is to prepare reading specialists, reading teachers, leaders and school administrators to develop a research-based philosophy of reading, design and implement a school-wide reading program, evaluate existing reading programs, and lead in faculty development. Students enrolled in this course must possess a strong understanding of the reading/writing process or administration background. The course is intended for graduate students seeking certification in administration or in becoming a reading specialist.

**ED 6318 Literacy Through Literature (3-0).** This course is a requirement for the Master of Education Language and Literacy degree and the Reading Specialist Certification program. It focuses on using literature in the elementary, middle school, and secondary classroom to teach the skills necessary for independent reading. Children's and young adult literature is explored and understood through different genres and cultures integrating universal design through current technology applications and informative evaluation criteria.

**ED 6324 School Support Services (3-0).** A study of the management of school services for which a chief administrator of an educational unit is responsible. Course content includes attendance accounting physical plant and facilities construction and maintenance human resources nutrition and transportation. Students will create a Professional Development Plan that addresses a need identified on their campus by data. If the student is seeking Certification this course must be taken with ED 7101.

**ED 6341 Psychopathology (3-0).** This course examines existing concepts of mental illness and offers a healthier, client-freeing approach. Presentations on medications, stress and the immune

system, mental status exam, and cases exemplifying diverse responses to human suffering are included. Prerequisite: Advisor Approval

**ED 6342 Addictive Disorder (3-0).** This course introduces counseling students to the field of addictions, including history, basic pharmacology, conceptualizations of addictions, assessment, models of treatment, prevention, and family and societal issues. Addictions counseling will overview but is not limited to process addictions, such as gambling, sexual, and eating, as well as chemical addictions, such as alcohol or drug. Prerequisite: Advisor Approval

**ED 6343 Mental Health Assessment (3-0).** Presentation of and exposure to major psychological tests used in a psychological report. Referral questions, psychological report writing, ethical issues, and examinations of actual clinical data round out the course. Prerequisites: Permission of instructor

**ED 6344 Counseling in a Multicultural Society (3-0).** Designed to help students develop knowledge, skills, and attitudes needed to provide effective counseling in a multicultural and pluralistic society. Issues addressed include awareness of one's own worldview and that of others; racism, stereotyping, and discrimination; demographic community, and family characteristics of various minority groups; and the application of theory, technique, and ethics to multicultural counseling.

**ED 6345 Family Counseling (3-0).** A survey of the field of family counseling, examining history, theories, and practice. Includes discussion of ethical, legal, and other professional issues related to family counseling. Prerequisite: ED 5314 and ED 7303

**ED 6346 Ethical and Legal Issues in Counseling (3-0).** A course to familiarize students with ethical and legal practice in the field of counseling; included are standards of ethical practice and their application to the various areas of counseling, ethical decision- making, major ethical and legal issues, and ethical responses to unethical behavior. Prerequisite: ED 5314.

**ED 6347 Introduction to Play Therapy (3-0).** This course will explore the history and essential principles and elements of play therapy, as well as theories, techniques, modalities and application of play therapy. Skills are developed through experiential activities, case studies, and video presentations. Prerequisite: Advisor Approval

**ED 6355 Instructional Leadership: Planning Implementation and Monitoring of the Instructional Program (3-0).** A course which examines the improvement process of curriculum instruction and assessment to positively impact student achievement. Students will create a campus improvement plan to address an identified problem on their campus. If a student is seeking Certification this course must be taken with ED 7102.

**ED 6371 History & Principles of Career & Applied Technology Education (3-0).** A course in the history, development, and operation of career technology education programs, including the impact and implications of state and federal legislation and regulation.

**ED 6373 Career and Technology Student Identification, Placement, and Follow-up (3-0).** A course designed to develop counselor competencies in the identification, placement, and follow-up of students who may participate in career and technology education programs. Emphasis is placed on involvement at the appropriate grade levels as an alternative or in addition to college preparation for career entry and advancement.

**ED 6375 Foundations of Educational Technology (3-0).** This course provides the students with an overview of the historical, theoretical, and philosophical foundations of educational technology. Current trends and research, emerging technology, and critical issues will be examined and the student will have the opportunity to apply newly acquired technological knowledge and skills to a variety of educational environments. Prerequisites: must be completed in first 6 sch of coursework

**ED 6376 Inquiry-Based Research Methods (3-0).** This course will examine methods and approaches to graduate level research, including qualitative, quantitative, and mixed-method inquiry. Special attention will be given to inquiry-based approaches and social constructivist learning theories, as well as the ethical research of human subjects. Prerequisites: must be completed within first 12 sch

**ED 6377 Instructional Design (3-0).** This course will provide students with insight into the theories and process that guide effective instructional design. A systems-approach to designing instruction will be examined, along with methods to evaluate instructional methods.

**ED 6378 Integration of Technology into the Curriculum (3-0).** This course will examine the advantages and challenges of effectively integrating technology into the curriculum in an effort to promote student motivation, engagement, and learning. Technologies assisting school personnel in assessment, evaluation, record-keeping, and data collection will be examined as well.

**ED 6379 Implementation of ED Tech Programs in the Educational Setting (3-0).** Students in this course will examine best-practices for the implementation of educational technology programs in the educational environment through the development of specific goals and a strategic plan. Although educational settings will be emphasized, strategies can be applied to a variety of settings and occupations.

**ED 6380 Special Topics in Educational Technology (3-0).** This special topics course provides the student with an opportunity to examine the role of educational technology in a variety of settings, through a case-study type approach. Emphasis will be placed on project/problem-based learning and critical analysis. Prerequisite: Advisor Approval

**ED 6381 Critical Issues in Educational Technology (3-0).** Students will examine their role as the agent of change and how that role affects and influences the diffusion of technology and the delivery of its services. Probable sociological, financial, and educational implications of the application of change will be examined, as well as approaches to reduce the occurrence of undesirable consequences.

**ED 6382 Basic Applications of Media and Technology (3-0).** This course will identify available technologies used to enhance instructional design and delivery. Concentration will be placed on the utilization of multimedia, print materials, audiovisual, computer and web-based technologies, and media conversion for educational and instructional purposes.

**ED 6383 Educational Technology Capstone with Portfolio Development (3-0).** This course is reserved for students enrolled in the final semester of the Educational Technology graduate program.

Students will utilize an electronic portfolio to present an approved topic of research and/or review of program for peer and faculty committee presentation. Prerequisite: Advisor Approval

**ED 6389 Special Populations and Programs (3-0).** A study of the needs of multicultural and special student populations and the state and federal programs that currently serve them in public schools.

**ED 7100 Practicum I for Certification (0-3).** A course required for certification which provides a minimum of 50 clock hours of field experience in the principalship in a T.E.A. accredited public, private, or parochial school. Students will create and implement a collaborative team to study a problem relating to student achievement on their campus. Students will serve in a leadership role as part of this committee. Students will prepare a report that details the change process and a video of themselves conducting one of this committee's meetings. This course must be taken with ED 7304. Prerequisites: ED 5330 and ED 5332. Internship/Practicum fee: \$300

**ED 7101 Practicum II for Certification (0-3).** A Course required for certification which provides a minimum of 50 clock hours of field experience in the principalship in a T.E.A. accredited public, private, or parochial school. Students will create and implement a professional development plan to address a problem relating to student achievement on their campus. Students will serve in a leadership role in conducting the professional development and in the change process. Students will create a plan that highlights the professional development, its implementation and monitoring and report on its success. This course must be taken with ED 6320. Prerequisites: ED 5330, ED 5332, ED 5333, ED 7304, ED 6312. Internship/Practicum fee: \$300

**ED 7102 Practicum III for Certification (0-3).** A course required for certification which provides a minimum of 60 clock hours of field experience in the principalship in a T.E.A. accredited public, private, or parochial school. Students will create and implement a campus improvement plan and work with the CIP Committee to address a problem relating to student achievement on their campus. Students will serve in a leadership role in the entire change process including creating the plan, and implementing and monitoring it. This course must be taken with ED 6315. Prerequisites: ED 5330, ED 5332, ED 5333, ED 7304, ED 6312. Internship/Practicum fee: \$300

**ED 7211 Practicum in Superintendency I (2-0).** This course provides a conduit for students enrolled in the fall semester of the superintendent certification program to gain the required clock hours of superintendent practicum for the fall courses in the superintendent certification program. This course will serve the purpose of a single depository for students who are working on their assistant/deputy school superintendent in a public school in Texas. Prerequisite: Full admission to the Superintendent Certification Program. Internship/Practicum fee: \$300

**ED 7212 Practicum in Superintendency II (2-0).** This course provides a conduit for students enrolled in the spring semester of the superintendent certification program to gain the required clock hours of superintendent practicum for the spring courses in the superintendent certification program. This course will serve the purpose of a single depository for students who are working on their assistant/deputy school superintendent in a public school in Texas. Prerequisite: Full admission to the Superintendent Certification Program. Internship/Practicum fee: \$300



**ED 7300 Advanced Applications of Media Technology (3-0).** This course explores the uses of multimedia in the classroom and extends the teachers skill base in the development of advanced multimedia examples to support and enhance the curricula. Throughout the course, students will gain experience in still and motion digital editing, audio and animation production. Prerequisite: ED 5320 & ED 6307

**ED 7301 Clinical Practice in Counseling (3-0).** This course provides a conceptualization of the counseling process and clinical interviewing; emphasizes development of the counseling skills necessary to function appropriately as an entry-level counselor in a variety of settings, including crisis counseling, school counseling, agency counseling, and private counseling. Training is done through role-play, coaching, and experiential activities. It includes presentation of case studies applicable to current issues, multicultural concerns, legal decisions, critical incident response and ethics in the field. Prerequisites: Must be taken last semester of coursework. Completion of a minimum of 42 semester hours of counseling coursework.

**ED 7302 Management of Guidance, Counseling, and Human Services Programs (3-0).** A professional orientation course covering program development, organization, management and accountability; professional organizations; codes of ethics; legal aspects of practice; standards of preparation; and position functions. Prerequisite: ED 5314 and ED 5307

**ED 7303 Techniques of Counseling (3-0).** The initial course in the sequence of counseling practice courses which applies knowledge of ethical practice, counseling theory, and human development to the process of therapeutic change and growth; emphasis is on basic counseling skills and various techniques in individual practice and crisis intervention. Prerequisite: ED 5314.

**ED 7304 Educational Leadership for Principals (8-0).** A critical examination of the theory and practice of leadership. The behaviors skills attributes beliefs and attitudes for leadership will be researched and investigated. Special attention will be placed on the change process to improve campuses and the development of professional learning communities. Students will develop a plan to create a PLC or Leadership Committee to study a problem on their campus identified by data. Must be taken with ED 5333. If student is seeking certification this course must be taken with ED 7100.

**ED 7305 Workshop in Education (3-0).** A special topics course in which the course content varies according to the instructor's course design. May be repeated when the course content varies.

**ED 7306 Superintendent Leadership (3-0).** This course will provide a comprehensive overview of the leadership aspects of the school superintendency. This would include dealing with the board, the public, the school community and all stakeholders within the district and how to view the big picture of being the CEO of a school district, including keeping all entities fully informed on a continuing basis, long range planning on all levels, leading and managing campus-based planning committees and district- planning committees, curriculum development and management, and all else pertaining to school district leadership. Prerequisite: Full admission to the Superintendent Certification Program

**ED 7307 Advanced Seminar in Administration (3-0).** A course designed especially for preparing administrators for the superintendency; emphasis on decision-making modes and leadership change strategies.

**ED 7308 The Superintendency (3-0).** This course is an introduction to school superintendency which would provide a broad overview of what a practicing superintendent is required to do so as well as the legal implications of the position. Additionally, the expectations of the Sul Ross State University Superintendency Certification program of study would be clearly delineated. Additionally, 75 clock hours of internship with a practicing superintendent in which the students will be exposed to the daily routine of the superintendent will be required. Prerequisite: Full admission to the Superintendent Certification Program

**ED 7311:1 and 7311:11 Superintendent Internship (0-3) and (0-3).** A course which provides the student with a minimum of 300 clock hours of reality experiences in the superintendency in a T.E.A. accredited public, private, or parochial school; students work with a superintendent, assistant superintendent, or business manager in the conduction of everyday central office administrative duties. Prerequisite: Approval of advisor and have completed the mid-management/principal certification program. Clock hours must be accumulated during two consecutive semesters. 7311:1 is required for enrollment in 7311 II. Internship/Practicum fee: \$300

**ED 7312 Practicum in Reading (0-3).** This course is the capstone course for the Master of Education Reading Specialist Program. It consists of a 160-hour, 15-week field experience designed to allow the reading specialist candidate opportunities to put into practice the knowledge gained throughout the program. All of the Reading Standards and Competencies will be demonstrated by the reading specialist candidate through working with students and colleagues. The candidate will be supervised by university faculty and an onsite reading specialist while administering and interpreting diagnostic assessments, planning and conducting intervention programs, and documenting the reading development of students.

**ED 7313 Practicum in School Administration – Non-Certification (0-3).** A course which provides reality experiences in the principalship in a T.E.A. accredited public, private, or parochial school; students spend a minimum of 160 clock hours working with a principal and/or assistant principal in the conduction of everyday administrative duties. Prerequisite: Approval of advisor and completion of a minimum of 24-27 semester hours of principal preparation coursework. Must be taken in last semester. Advisor Approval Required. Internship/Practicum fee: \$300

**ED 7315 Group Processes in Guidance and Counseling (3-0).** A course which explores numerous theoretical models, exposes students to various techniques and principles, and includes class presentations, role play and opportunity for “hands on,” experiential involvement in a group. Prerequisite: ED 5314 and 7303.

**ED 7316 Practicum in Counseling (0-3).** A course that provides reality field experiences in guidance and counseling in an appropriate school or agency setting; students spend between 100-160 clock hours under supervision in the conduction of counseling and guidance activities with 40-100 of these hours being direct client hours. Prerequisite: Approval of advisor and completion of a minimum of 42 semester hours of counseling coursework. Practicum fee: \$300

**ED 7317 Internship in Counseling (0-3).** This advanced fieldwork experience will provide students with university and clinical-site supervised practice in counseling in university affiliated services and community settings. Students must accumulate 600 total clock hours of counseling experience, with at least 240 hours of direct client contact. Internship will take a minimum of 2 long semesters to complete. Prerequisite: Completion of ED 7316, completion of a minimum of 51 semester hours of counseling course work and approval of advisor. Practicum fee: \$300



**ED 7318 Practicum in Special Education (0-3).** A course which provides field experience in special education in a T.E.A. accredited public, private, or parochial school or identified agency. Students spend a minimum of 160 clock hours under supervision of designated mentor and university faculty. Prerequisite: Instructor's approval. Internship/Practicum fee: \$300

**ED 7320 Professional Issues and Ethics in Counseling (3-0).** This course familiarizes students with professional, legal, and ethical issues facing clinical mental health counselors. The focus will be an overview of business, family law and professional practice, the study of current board rules, and records management. Students will demonstrate knowledge of and ability to apply the Texas State Board of Examiners of Professional Counselors Statutes/Law and Rules/Regulations. Prerequisite: Advisor Approval

**ED 7321 Superintendent/School Board Relations (3-0).** This course would provide a comprehensive view of the legal ramifications a practicing superintendent faces both on a daily basis and long range and would specifically focus on how this affects the working relationship with the Board of Trustees. This would include dealing with the Board of Trustees on/with the following: policy matters, working with human resources, learning to keep abreast of impending and new enacted legislation and working with the board and school community to develop long range predictions as to how possible future legislation and proposed legislation will affect the school community. Prerequisite: Full admission to the Superintendent Certification Program

**ED 7322 Superintendent Finance Issues (3-0).** This course would provide a comprehensive view of all things financial with which the practicing school superintendent must deal on both a daily basis and as an aspect of long range planning, including budgeting, fiscal growth, facilities planning and the politics of each aspect of finance. Prerequisite: Full admission to the Superintendent Certification Program

**ED 7323 Emotional Intelligence (3-0).** This course explores numerous theoretical models of emotional intelligence, examines the skill sets necessary to strengthen interpersonal and intrapersonal relationships, exposes the counseling student to transpersonal theories and techniques that are intended to improve the counselor outlook to prevent compassion burnout. Students will also complete individual assessments to gain baseline information on Personal Values, Individual Emotional Intelligence, and the student's Quality of Motivation.

**EDUC 3300 Foundations of American Public Schools (3-0).** This course provides an overview of the historical, philosophical, cultural, sociological, and political underpinnings of the American education system. The evolution of education, the role of cultural diversity in education, curriculum and assessment, legal case studies, education standards (TEKS), Educator's Code of Ethics and issues and trends in education are explored. Participants will review local, state, and national policy, Legislation, and regulations pertaining to PreK-12 education. Participants will reflect upon how these concepts drive instructional practices in today's challenging classroom environment. Must be taken during the first semester or first six hours.

**EDUC 3301 Math/Science Methods for the Elementary Teacher (3-0).** A study and implementation of pedagogical models and curriculum design for teaching science and math utilizing technology for elementary children. The role of standards based from the Texas Essential Knowledge and Skills (TEKS) will be applied incorporating various forms of inquiry and direct instruction. This content specific course will develop the art and science of responsive teaching to the needs and interests of all learners. Must be admitted to the Teacher Education Program.

**EDUC 3302 Educational Psychology (3-0).** A researched based study of teaching-learning procedures includes the role and methods of assessment and evaluation of student achievement with theories of human growth and development. The course includes the role of educational ethics and the role of the educator. In addition, knowledge of the legal information requirements for the education of the needs of special populations, including multicultural, gifted, and talented students. Must be admitted to the Teacher Education Program.

**EDUC 3303 EC-8 Methods and Classroom Management Education (3-0).** Various educational settings and programs are described with an emphasis on implementation including research on Developmentally Appropriate Practice. Classroom and behavioral management will be presented from the perspective of its implementation in the education setting based on current research. In addition, the planning aspect of classroom management will provide the use of TEKS, Texas Pre-Kindergarten Guidelines and Competencies provided by Texas Educational Agency. Instruction contains adaptations and laws and procedures for the inclusion of exceptional, multicultural, and special needs students. Must be admitted to the Teacher Education Program.

**EDUC 3304 Educational Child Growth and Development (3-0).** A course in the theories of normal child growth and development and biological factors in the development of children as it pertains in the educational setting. Theories will include language development, cognitive, emotional and personality development. Further, content addresses the influence of diverse socio/cultural factors and learning styles. This course supports competencies within evaluative measures as identified by the State of Texas for Teacher Certification. Must be admitted to the Teacher Education Program.

**EDUC 3305 Teaching Strategies and Curriculum Management in Secondary School (3-0).** An examination of instructional strategies, for subjects taught in the secondary school, utilizing the Texas essential Knowledge and Skills (TEKS). Instruction focuses on content organization and lesson planning to assess and improve student learning. Must be admitted to the Teacher Education Program.

**EDUC 3308 EC-6 Educational Language Acquisition and Emergent Literacy (3-0).** This course addresses language acquisition in children and the critical analysis of curricular components in Early Childhood Education through 8<sup>th</sup> grade. Developmentally appropriate activities, diversity, and individual learning styles found in the educational setting are discussed as they facilitate language and lead to literacy development in children. All theories and activities are presented as they ultimately contribute to an integrated curriculum representing multiple content areas. This course also incorporates opportunities for data-driven and performance assessment practice based on TEKS instruction and the Texas Pre-kindergarten Guidelines. This course supports competencies within the evaluative measure as identified by the State of Texas for Teaching Certification. In addition, this course utilizes the competencies prescribed for Early Childhood-8<sup>th</sup> grade as identified by the State of Texas. This course, along with ED/EDUC 4308, serve as a foundation for the reading requirement. It is strongly encouraged that students take both simultaneously. These courses serve as a pre-requisite for subsequent reading courses. Must be admitted to the Teacher Education Program.

**EDUC 3309 EC-6 Early Childhood Methods and Classroom Management Education (3-0).** The course addresses early childhood from infancy through fourth grade. Various early childhood settings and programs are described from their inception to present educational application. Developmentally appropriate practice is presented as it affects both the student and the teacher in the educational setting. Students will be presented with the role of the early childhood teacher and the importance of lifelong learning as it pertains to early childhood methods and classroom management in schools. In addition, this course serves as a prerequisite to taking the Teacher Certification Instrument as defined by the State of Texas.

**EDUC 3310 EC-6 Early Childhood Curriculum (3-0).** This course is designed to provide pre-service teachers with a critical analysis of the curricular components in the early childhood through sixth grade setting, (EC-6). Curricular contents will be evaluated and discussed in order to enable the future educator to exhibit mastery of the competencies of the evaluative measure as identified by the State of Texas. Further, the students will evaluate and develop strategies to implement instructional strategies as prescribed by the State of Texas components for the education of young children in the K-6th grade setting.

**EDUC 3312 Fine Arts in the Classroom (3-0).** Course is designed to introduce students to the principles of art, music, and theatre that can be related to the expressive and developmental needs of children in the Early Childhood-Sixth grade classroom. Students will learn basic techniques, activities, and strategies for integrating art, music, and theatre into the EC-6 curriculum.

**EDUC 3328 Foundations of Bilingual Education (3-0).** A survey of the research, philosophy and the legal requirements of bilingual education. The process of second language development. Also, a review and analysis of the differences of various bilingual programs. Must be admitted to the Teacher Education Program.

**EDUC 3329 Methodology of Second Language Teaching (3-0).** Application of the principles of applied linguistics to the teaching of a second language. Review of the different methods and techniques used to teach the bilingual child. This course also investigates the impact of psychology and linguistics on language learning/acquisition.

**EDUC 4300 Internship in Teaching (3-0).** A course designed for post-baccalaureate certification candidates to satisfy student teaching requirements by being employed as the teacher of record in an accredited school, jointly supervised by the University and school personnel. Must meet requirements for eligibility to student teach. Offered during the fall term only.

**EDUC 4301 Internship in Teaching II (3-0).** A course designed for post- baccalaureate certification candidates to satisfy student teaching requirements by being employed by a school district as the teacher of record in an accredited school. The Intern will be jointly supervised by the University and school personnel. Offered during spring term only.

**EDUC 4307 Teaching Language Arts in the Elementary School (3-0). QEP MAPPED COURSE A** study of the methods and strategies in teaching language arts in the elementary grades. A focus on vocabulary, comprehension, and comprehension development, composition, grammar, and handwriting as it relates to grade level TEKS and guidelines will be covered. Classroom management, instructional materials, curricula and best practice of analysis and response are presented. Activities focus on development of lesson plans, instructional materials, visual aids and assessment of student progress. Opportunities for data-driven and performance-based practices are presented. Prerequisites: ED/EDUC 4308 and ED/EDUC 3308

**EDUC 4308 The Teaching of Reading (3-0).** This course focuses on reading pedagogy from a theoretical perspective. It includes a study of the foundations of reading readiness, beginning reading, remedial reading, reading assessment, reading devices and the use of audiovisual aids in reading instruction. Topics presented in this course will provide an understanding of reading pedagogy, best practices for reading assessment and foundational skills for reading development. Opportunities for data-driven and performance-based practices are presented. This course, along with ED/EDUC 3308, serve as a foundation for the reading requirement. It is strongly encouraged that students take both simultaneously. These courses serve as a prerequisite for subsequent reading courses.

**EDUC 4312 Methods and Classroom Management in Secondary Schools (3-0).** An overview of classroom management strategies for subjects taught in the secondary school with emphasis on an inclusive environment. Instruction focuses on the design of learning settings that foster collaboration, supportive interjections, and physical accessibility for all students. Must be admitted to the Teacher Education Program.

**EDUC 4313 Comprehension, Phonics and Enrichment (3-0).** An intensive examination of the development and teaching of phonics, word identification, vocabulary, and structural analysis related to the development of reading comprehension for all readers. His course will prepare candidates to provide multisensory instruction and culturally responsive intervention in the following areas: vocabulary development, critical-analytical reading, research-based strategies, and metacognitive approaches to assist with understanding varied texts. This course supports competencies within the evaluative measure as identified by the State of Texas for Teaching Certification. In addition, this course utilizes the competencies prescribed for Early Childhood-6<sup>th</sup> grade as identified by the State of Texas. Prerequisites: ED/EDUC 4308 and ED/EDUC 3308

**EDUC 4314 Reading Skills for Content Subjects (3-0).** This course will address methods and materials for teaching skills needed for locating, interpreting, and organizing information used in science, social studies, math, and other content subjects from elementary through secondary classrooms. Course topics include text selection, use of tradebooks, comprehension strategies, and inquiry-based approaches. This course also provides for the State of Texas Required training in identifying characteristics of and strategies for teaching students with dyslexia. Additionally, this course will present the nature and impact of new literacies on content teaching and provide candidates with practice in digital literacy skills. Must be admitted to the Teacher Education Program.

**EDUC 4315 Assessment and Remediation Techniques of Reading Problems (3-0).** This course will focus on assessment diagnostic and remediation techniques. Data-driven and performance-based learning practices will provide candidates with application of reading assessment measures and opportunities for identification of reading problems to include Dyslexia and English Language Proficiency standard instruction. This course supports competencies within the evaluative measure as identified by the State of Texas for Teaching Certification. In addition this course utilizes the competencies prescribed for Early Childhood-6<sup>th</sup> grade as identified by the State of Texas. Prerequisites: ED/EDUC 4308 and ED/EDUC 3308

**EDUC 4320 Diverse Populations (3-0).** The course explores the complexities of equity in the classroom related to children with exceptional needs, ranging from Special Education to Gifted and Talented. Best practices related to teaching children with special needs are identified. Meanwhile, dilemmas related to sociocultural and economic factors that impact learning in a diverse society are stressed. Data-driven practices for programming educational inclusion are emphasized. Must be admitted to the Teacher Education Program.

**EDUC 4327 Readings and Research (3-0).** A course taught on an individual basis wherein special topics are studied. Course content varies according to needs of the student.

**EDUC 4328 Teaching Spanish Language Arts in the Bilingual Classroom (3-0).** A study of methods and techniques for teaching Spanish reading and language arts to the bilingual child. Special attention will be given to the diagnosis of reading competence to insure successful transition into English reading. Fifty percent of the class may be taught in Spanish.

**EDUC 4329 Teaching Content Areas in the Bilingual Classroom (3-0).** An overview of methods and techniques for teaching social studies, science and mathematics in Spanish to the bilingual child. Attention will be given to principles of time and treatment, instructional planning, and classroom management strategies. Fifty percent of the class may be taught in Spanish.

**EDUC 4601 Student Teaching in the Elementary School 4-8 (6-0).** Includes a minimum of twelve weeks of teaching practice in an accredited elementary school in grades 4-8 under supervision of a public school classroom teacher. Must meet departmental approval to student teach. Course fee: \$125

**EDUC 4605 Student Teaching in the Secondary School (6-0).** Includes a minimum of twelve weeks of teaching practice in an accredited secondary school under supervision. Where the student has two teaching fields, a minimum of six weeks teaching in each field will be included. Must meet departmental approval to student teach. Course fee: \$125

**EDUC 4607 Student Teaching in Early Childhood through Sixth Grade, EC-6 (6-0).** Includes a minimum of six weeks of teaching practice in an accredited elementary and six weeks of teaching practice in an accredited early childhood program under supervision of a public school classroom teacher. Must meet departmental approval to student teach. Course fee: \$125

**EDUC 5301 Research Methodology (3-0).** An introduction to social science research. The student will demonstrate competency in reading and interpreting research and will use the APA style and format. Demonstrated competency in research design will be shown through written products and presentations. Must be taken within first 12 hours of graduate coursework. No substitutions for this course without written permission from the Education Department Chair.



**EDUC 5302 The Principalship (3-0).** A course designed especially for elementary and secondary school principals in which the role, scope and function of the principalship is thoroughly studied. Must be admitted to the Instructional Leadership Program.

**EDUC 5307 Graduate Research (3-0).** A course designed to broaden the perspectives of graduate students and to introduce them to the techniques of research. Course taken during the first 12 hours of graduate coursework.

**EDUC 5308 Foundations of Literacy (3-0).** This course is designed to follow the development of the reader from early childhood to the adult reader perspective. This course investigates best practices as they relate to reading theories and research so that candidates can explain, compare, contrast, apply and critique literacy education practices through professional collaboration. This course also examines instructional techniques regarding oral language, phonological and phonemic awareness, print awareness, word identification, fluency, comprehension, vocabulary, written language, assessment, instruction, addressing individual needs, and topics associated with exceptional students. This class is designed to provide students with a foundation of knowledge about teaching literacy, reading and writing, as an interactive process focusing on extracting meaning from print.

**EDUC 5309 Introduction to School Administration (3-0).** An overview of school administration that includes roles functions and duties of those who administer and supervise in the schools. Policy development planning goal setting program evaluation and accreditation standards are also included.

**EDUC 5313 Career Counseling (3-0).** This course will study human career development across the life span, historical concepts and foundations, career decision-making processes, career counseling techniques for diverse and multicultural populations, systems of career information, and the application of these to career counseling in school and community settings.

**EDUC 5314 Personality and Counseling Theories (3-0).** A study of traditional and contemporary theories of personality as they relate to the process and practice of counseling in a pluralistic society.

**EDUC 5315 Standardized Assessment Principles (3-0).** A course which studies the basic principles of standardizing testing, the planning, implementation and coordination of testing programs.

**EDUC 5316 The Multicultural Perspectives in Education (3-0).** This course is designed to examine theoretical and practical issues of diversity. Multiculturalism perspectives such as culture, race, gender, ethnicity, language, exceptionality, class, age, differentiated lifestyles, religion and socio-economic levels will be critically examined to develop awareness and sensitivity to the rich diversity of all students in American public schools.

**EDUC 5318 Personnel Problems (3-0).** A comprehensive study of the human resource function in public schools. Included are job analyses, staffing needs, recruitment, selection, placement, induction, evaluation, appraisal, and development of school personnel at all levels. Must be admitted to the Instructional Leadership program.

**EDUC 5319 School Law (3-0).** A study of general laws applying to all states concerning education; an in-depth study of cases and decisions affecting current education.

**EDUC 5327 Readings and Research (3-0).** A course taught on an individual basis wherein special topics are studied. Course content varies according to needs of the student.

**EDUC 5328 Bilingual Education: Principles and Curriculum (3-0).** A survey of the psychology and philosophy of bilingual education. Methods and materials used in teaching the bilingual child. The course will also include the historical and legal aspects of bilingual education.

**EDUC 5329 Methodology of Second Language Teaching (3-0).** Methods of second language teaching. Emphasis on language acquisition and development.

**EDUC 5330 Literacy Through Literature (3-0).** A course that focuses on using literature in the elementary, junior high, and secondary classroom to teach and support the skills necessary for increasing engagement, attitudes toward literacy, and independent reading. Children's and young adult literature is explored and understood through different genres and cultures, integrating universal design through current technology applications and informative evaluation criteria. Prerequisites: EDUC 5308

**EDUC 5332 Educational Research I (3-0).** A course designed to broaden the perspectives of education graduate students and to introduce them to the techniques of educational research that promote data-driven decision-making on their campuses. Must be completed in first 6 sch.

**EDUC 5333 Educational Research II (3-0).** An advanced course designed for education graduate students to apply the techniques of educational research that promote data-driven decision-making on their campuses by completing a statistically-sound data-driven educational research project on an identified need of their school campus related to student achievement.

**EDUC 5336 Advancing Educational Leadership (3-0).** An investigation of the processes and procedures used to evaluate instructional personnel in the public schools. Special attention is given to knowledge of curriculum and instruction, data gathering and analysis, setting goals, conducting effective conferences, team-building skills and conflict resolution skills, and developing mentoring and coaching skills. One of two courses required to do teacher appraisals in Texas public schools.

**EDUC 5338 Texas Teacher Evaluation & Support System (3-0).** An investigation of the T-TESS Training required for appraisers and developed for the Texas Education Agency. Included in the content are statutory requirements, historical development, domains, critical indicators, and distinguished quality. One of two courses required to do teacher appraisals in Texas public schools. Prerequisite: EDUC 5336

**EDUC 6304 Organization and Theory in School Administration (3-0).** Current trends, issues and problems in the elementary and secondary schools involving the planning, organizing, administering and evaluating the total school system. Must be admitted to the Instructional Leadership Program.

**EDUC 6305 Curriculum Instruction and Assessment (3-0).** A course which introduces education graduate students to public school curriculum and its adoption process in Texas; Instruction and how to improve it to positively impact student achievement; and assessment and how to measure student success. Students will be introduced to the topics among others of the change process horizontal and vertical alignment scope and sequence and rigor.

**EDUC 6307 School Public Relations (3-0).** A course designed to acquaint the school administrator and the teacher with the techniques of dealing with all stakeholders in such a way as to allow an intelligent understanding of the aims, the scope, the achievements and the problems of an educational program. A course that provides an understanding of the roles and responsibilities of



administration that includes knowledge of legal and ethical issues and requirements for principals and school staff; professional knowledge and skills needed for communicating and collaborating with professional colleagues, the community, the families; and the importance of family involvement in children's education. Must be admitted to the Instructional Leadership Program

**EDUC 6308 Advanced Human Growth and Development (3-0).** A study of the life span human development from conception to death, encompassing physical, social and emotional theories of development. Including an emphasis on childhood and adolescence, and the implications for effective academic and interpersonal experiences.

**EDUC 6309 Human Growth & Development w/Emphasis on Adult Learning Pedagogy (3-0).** A study of human development from adolescence through adult with learning theory application for different modes of pedagogical delivery.

**EDUC 6310 Advanced Early Childhood Curriculum (3-0).** An advanced study of curriculum development as it pertains to early childhood classrooms.

**EDUC 6311 Emergent Literacy & Language Development in Early Childhood (3-0).** This advanced course is a requirement for the Master of Education Reading Specialist program. It is designed to provide students with an understanding of the components of reading and the strength and needs of individual students. This course will demonstrate how young children become literate, how language is acquired, and how competence in oral language supports the development of reading and writing. Attention will also be given to the critical role adults play in fostering the literacy development of young children.

**EDUC 6312 Advanced Studies in Early Childhood Methods and Classroom Management (3-0).** An advanced study of the growth and development of infancy and early childhood with emphasis on developmentally appropriate methods and materials for early literacy development and programs.

**EDUC 6313 Teaching Reading in the Content Area (3-0).** This course investigates best practices as they relate to reading theories and research so that professionals can explain, compare, contrast, develop and critique literacy education practices. The purpose of the course is to learn the most effective ways of helping students with reading comprehension, writing, speaking, listening, viewing and researching across disciplines in K-12. This class is designed to provide students with a foundation of knowledge about the language of each discipline through the interactive process focusing on extracting meaning from print and all mediums.

**EDUC 6314 Diagnosis and Remediation of Reading Disabilities (3-0).** This course is designed to identify and address the symptoms and causes of reading difficulties and disabilities. Methods of assessment and diagnosis will be addressed through course readings and discussions, and will be applied in field opportunities. Intervention and remediation techniques will also be addressed throughout the course. Assessment techniques which can be applied in the classroom with individual students or groups of students will be examined.

**EDUC 6315 Curriculum Theory and Development (3-0).** A course which introduces education graduate students to public school curriculum and its adoption process in Texas; Instruction and how to improve it to positively impact student achievement; and assessment and how to measure student success. Students will be introduced to the topics, among others, of the change process, horizontal and vertical alignment, scope and sequence, and rigor. Instructor Approval Required.

**EDUC 6316 Seminar in Counseling (3-0).** This course will address a variety of special issues and topics in counseling. Students may enroll in more than one seminar if the topics are different. Prerequisite: Permission of instructor.

**EDUC 6317 Organization and Supervision of Reading Programs (3-0).** The intention of this course is to prepare reading specialists, reading teachers, and school administrators to develop a research-based philosophy of reading, design and implement a school-wide reading program, evaluate existing reading programs, and lead in faculty development. Candidates enrolled in this course must possess a strong understanding of the reading/writing process or administration background. The course is intended for graduate candidates seeking certification in administration or in becoming a reading specialist.

**EDUC 6318 Multiculturalism and Diversity in Counseling (3-0).** This course is based on the premise that all counseling is cross-cultural, occurring in a context influenced by institutional and societal biases and norms, and is a culture-bound profession. Course content will focus on examining one's own assumptions, values, biases and worldview perspectives; constructing an understanding of the worldview perspectives of culturally different students, clients; and developing culturally appropriate intervention strategies and techniques.

**EDUC 6319 Psychopathology (3-0).** This course will investigate abnormal behavior as defined by the Diagnostic and Statistical Manual of Mental Disorders. Prerequisites: Student must have earned a grade of B or higher in EDUC 5314, EDUC 6322 and have permission of the instructor.

**EDUC 6321 Techniques of Counseling I (3-0).** An experiential course in professional counseling practice designed to develop communication and conceptualization skills essential to an effective and culturally relevant counseling relationship. Prerequisite: Student must have earned a grade of B or higher in EDUC 5314 and have Instructor Approval. This course is taken concurrently with Group Counseling (EDUC 7315).

**EDUC 6322 Techniques of Counseling II (3-0).** An advanced experiential course in which students are required to demonstrate proficiency in counseling concepts, skills, and techniques that are sensitive to human diversity, with a major emphasis on students developing insight into their own theoretical orientations. Prerequisite: Student must have earned a grade of B or higher in EDUC 6321 and Instructor Approval.

**EDUC 6323 Marriage and Family Counseling (3-0).** The general purpose of this course is to familiarize students with the stages of family development, family dynamics, and techniques of marriage and family counseling, family consultation, and parent education.

**EDUC 6324 School Support Services (3-0).** A study of the management of school services for which a chief administrator of an educational unit is responsible. Course content includes attendance accounting physical plant and facilities construction and maintenance human resources nutrition and transportation. Students will create a Professional Development Plan that addresses a need identified on their campus by data. If the student is seeking Certification this course must be taken with EDUC 7101.

**EDUC 6326 Advanced Strategies in Couples and Family Counseling (3-0).** The course is designed to assist advanced counseling students in the full integration of theories and skills in relationship counseling and family therapy. Students will develop professional competence in assessment, treatment planning, and therapeutic interventions for effectively counseling couples and families of multicultural and diverse backgrounds. Prerequisites: EDUC 6323 and/or instructor approval

**EDUC 6327 Marriage, Divorce, and Family Mediation (3-0).** This course provides advanced counseling students with cutting-edge knowledge of the models and methods of mediation. Emphasis is placed on the strategies and skills necessary for counselors to competently provide professional mediation assistance to families and couples, as well as the evaluative, transformative, and therapeutic practices employed before, during and after relationship dissolution and divorce. Prerequisite: Instructor Approval.

**EDUC 6328 Methodology in Reading/Language Arts in Bilingual Education (3-0).** A study of methods and materials for teaching Spanish language skills for bilingual students. Special emphasis on the integration of reading and writing skills and diagnostic principles and procedures in the classroom instructional programs. Fifty percent of the class may be taught in Spanish.

**EDUC 6329 Methodology in Content Area Instruction in Bilingual Education (3-0).** Methods and techniques of presenting science, social studies, and mathematics including organization for Spanish instruction as well as a survey of media and materials for use in bilingual classroom will be included. Fifty percent of the class may be taught in Spanish.

**EDUC 6330 Play Therapy (3-0).** This course will develop knowledge and skills to enhance the counseling relationship with diverse clients of all ages by utilizing play media to facilitate expression, self-understanding, catharsis, and personal growth and development. The basic theories and applications of play- related and action-based approaches will be explored, with special emphasis on the counselor's own unique contribution to the therapeutic relationship and the emotional needs of the client.

**EDUC 6331 Advanced Strategies in Play Therapy (3-0).** This course is designed to provide counselors with advanced knowledge and skills in a wide range of nonverbal approaches for working effectively with diverse and multicultural clients of all ages. Emphasis is on the history, theories, techniques, and applications of play therapy, action-oriented counseling, and the therapeutic use of the expressive arts.

**EDUC 6332 Consultation for Professional School Counselors (3-0).** This course examines theory and methods of consultation as a student-centered process for counselors to collaborate with colleagues, administrators, teachers, parents, and community agencies. Content includes the state model, certification exam, ethical/legal issues and effective skills for consulting in schools that serve multicultural and diverse populations.

**EDUC 6333 Ethical, Legal, and Professional Issues in Counseling (3-0).** This course will examine legal, ethical, and professional standards and issues affecting the practice of professional counseling in schools, community agencies, and private practices in the multicultural and diverse society of the 21st century. Ethical standards will be discussed from an historical and practice perspective, as well as legal issues that affect and/ or conflict with the professional practice of counseling. Ethical decision-making models will be examined, and professional issues distinctive to the specific practice settings of counseling will be presented.

**EDUC 6340 Bilingual & Bicultural Counseling Strategies (3-0).** This course offers a comprehensive and in-depth examination of current theories, research, and strategies in bilingual and bicultural counseling with clients of all ages. Bilingual and bicultural individuals can effectively employ two different languages and successfully navigate in two different cultures. Subsequently, language choice and cultural relevance are therapeutic strategies effectively employed by bilingual and monolingual counselors.

**EDUC 6342 Counseling for Crisis, Trauma & Disaster (3-0).** This course offers a comprehensive and in-depth examination of current theories, research, and strategies in bilingual and bicultural counseling with clients of all ages. Bilingual and bicultural individuals can effectively employ two different languages and successfully navigate in two different cultures. Subsequently, language choice and cultural relevance are therapeutic strategies effectively employed by bilingual and monolingual counselors.

**EDUC 6344 Mindfulness-Based Approaches to Counseling (3-0).** This course explores mental health, wellness, counseling, and cutting-edge neuroscience through the lens of mindfulness- based counseling paradigms. Emphasis is placed on students developing knowledge and skills in the applications of mindfulness- based theories and strategies in the counseling process.

**EDUC 6346 Counseling At-Risk Youth (3-0).** This course explores theory and practice related to counseling at-risk youth including the social, multicultural, ethical, and legal issues associated with school failure and drop-out, teen pregnancy and sexuality, substance abuse, violence, and criminal behavior. Emphases are on skill development, prevention strategies and social justice factors.

**EDUC 6350 Counseling and the Neuroscience (3-0).** This course provides students with an understanding of the relationships between neurological processes and counseling. With emphases on counseling diverse populations, course topics include neurological processes associated with perceptions, cognitions, emotions, behaviors, neuroplasticity, neurogenesis, and psychoactive pharmacological agents used in mental health treatment.

**EDUC 6352 Community Treatment Planning & Mental Health Advocacy (3-0).** This course provides an in-depth overview of the multidimensional community mental health systems, with perspective on the administrative, organizational, socio-cultural, advocacy and clinical aspects of policy formation, managed care, case-management, legal paradigms and trends in mental health services delivery.

**EDUC 6355 Instructional Leadership: Planning Implementation and Monitoring of the Instructional Program (3-0).** A course which examines the improvement process of curriculum instruction and assessment to positively impact student achievement. Students will create a campus improvement plan to address an identified problem on their campus. If a student is seeking Certification this course must be taken with EDUC 7102.

**EDUC 6360 Assessment and Counseling of the Older Adult (3-0).** This course offers counselors a comprehensive perspective of the aging process. Common life experiences and transitions in later life create specific individual, marriage and family needs which require unique treatment approaches. Special emphasis is placed on assessment, differential diagnosis, treatment planning and implementation, and gerontological counseling strategies.

**EDUC 6362 Death, Dying, & Bereavement Counseling (3-0).** This course explores the theories and conceptual frameworks for working with death, dying, and bereavement. Students will increase their own affective development and sensitivity in working with clients who are struggling with issues of death, loss and grief, and they will identify, clarify, and understand their own personal assumptions, biases, attitudes, and reactions.

**EDUC 6364 Counseling and Human Sexuality (3-0).** This course provides counselors with the knowledge and skills for effectively working with clients of diverse backgrounds on issues related to human sexuality. Physical, psychological and cultural aspects of sexuality will be explored with emphasis on enhancing mindful counselor self-awareness.

**EDUC 6366 Counseling and Spirituality (3-0).** This course will provide counselors with an exploration of theories and techniques appropriate for integrating spirituality into the counseling process. Spirituality and the search for meaning are central elements of the human experience, and they are considered important components of mental health and wellness. Students will learn to assess a client's spiritual domain and develop treatment plans and counseling interventions based on various models of spiritual development.

**EDUC 6389 Special Populations and Programs (3-0).** A study of the needs of multicultural and special student populations and the state and federal programs that currently serve them in public schools.

**EDUC 7100 Practicum I for Certification (0-3).** A course required for certification which provides a minimum of 50 clock hours of field experience in the principalship in a T.E.A. accredited public private or parochial school. Students will create and implement a collaborative team to study a problem relating to student achievement on their campus. Students will serve in a leadership role as part of this committee. Students will prepare a report that details the change process and a video of themselves conducting one of this committee's meetings. This course must be taken with EDUC 7304. Internship/Practicum fee: \$300

**EDUC 7101 Practicum II for Certification (0-3).** A Course required for certification which provides a minimum of 50 clock hours of field experience in the principalship in a T.E.A. accredited public private or parochial school. Students will create and implement a professional development plan to address a problem relating to student achievement on their campus. Students will serve in a leadership role in conducting the professional development and in the change process. Students will create a plan that highlights the professional development its implementation and monitoring and report on its success. This course must be taken with EDUC 6320. Internship/Practicum fee: \$300



**EDUC 7102 Practicum III for Certification (0-3).** A course required for certification which provides a minimum of 60 clock hours of field experience in the principalship in a T.E.A. accredited public private or parochial school. Students will create and implement a campus improvement plan and work with the CIP Committee to address a problem relating to student achievement on their campus. Students will serve in a leadership role in the entire change process including creating the plan and implementing and monitoring it. This course must be taken with EDUC 6315. Internship/Practicum fee: \$300

**EDUC 7302 Management of Counseling Programs (3-0).** An examination of the mission, philosophy, and function of counseling programs in school systems with emphasis on program organization, administration, needs assessment, evaluation, legal and ethical issues, creating community coalitions and outreach, training support staff, and adopting and adapting culturally relevant prevention and intervention programs. Prerequisite: The grade of B or higher in EDUC 5314 and have instructors permission.

**EDUC 7304 Educational Leadership for Principals (3-0).** A critical examination of the theory and practice of leadership. The behaviors skills attributes beliefs and attitudes for leadership will be researched and investigated. Special attention will be placed on the change process to improve campuses and the development of professional learning communities. Students will develop a plan to create a PLC or Leadership Committee to study a problem on their campus identified by data. Must be taken with EDUC 5333. If student is seeking certification this course must be taken with EDUC 7100.

**EDUC 7305 Workshop in Education (3-0).** A special topics course in which the course content varies according to the instructor's course design. May be repeated two times when the course content varies.

**EDUC 7306 School Finance (3-0).** Consideration of problems relating to public school finance; guiding principles of finance; operational finance; trends; and needs in state and federal participation and support in school finance.

**EDUC 7307 Advanced Seminar in Administration (3-0).** A course designed especially for elementary and secondary principals and superintendents preparing for public school administration; emphasis on decision-making modes and leadership change strategies.

**EDUC 7309 State and Federal Programs in the Public Schools (3-0).** A study of federal and state programs currently being used in public schools.

**EDUC 7310 Public School Buildings (3-0).** A study of past and present building architecture with a special emphasis on building types.

**EDUC 7311 Superintendent Internship (3-0).** A course which provides the student with a minimum of 100 clock hours of reality experiences in the superintendency in a T.E.A. accredited public, private, or parochial school; students work with a superintendent, assistant superintendent or business manager in the conduct of everyday central office administrative duties. Prerequisite: must have completed the Principal Certification program. Instructor approval only.

**EDUC 7312 Practicum in Reading (3-0).** This course is the capstone course for the Master of Education Reading Specialist Program. It consists of a 160-hour, 15-week field experience designed to allow the reading specialist candidate opportunities to put into practice the knowledge gained throughout the program. All of the Reading Standards and Competencies will be demonstrated by the reading specialist candidate through working with students and colleagues. The candidate will be supervised by university faculty and an onsite reading specialist while administering and interpreting diagnostic assessments, planning and conducting intervention programs, and documenting the reading development of students.

**EDUC 7313 Administration Internship (3-0).** A course which proves reality experiences in the principalship in a T.E.A. accredited public, private, or parochial school; students spend a minimum of 100 clock hours working with a principal and/or assistant principal in the conduct of everyday administrative duties. Prerequisite: Completion of a minimum of 24 s.c.h. of administration coursework. Instructor approval only.

**EDUC 7315 Group Counseling (3-0).** This course will provide students with an experiential and interactive opportunity to develop awareness and competence in counseling diverse groups of individuals through exploration of group dynamics, processes, and therapeutic interventions. Prerequisite: Student must have earned a grade of B or higher in EDUC 5314 and Instructor Approval. This course is taken concurrently with Techniques of Counseling I (EDUC 6321).

**EDUC 7316 Practicum in Counseling (3-0).** This fieldwork experience will provide students with university and clinical-site supervised practice in counseling in university-affiliated services and community settings. Students must accumulate 100 total clock hours of counseling experience, with at least 40-hours of direct face-to-face counseling contact. Prerequisite: Student must have earned a grade of B or higher in EDUC 6321 and 7315 and have permission of the instructor

**EDUC 7317 Internship in Counseling (3-0).** This advanced fieldwork experience will provide students with university and clinical-site supervised practice in counseling in university-affiliated services and community settings. Students must accumulate 600 total clock hours of counseling experience, with at least 240 hours of direct face-to-face counseling contact. Prerequisite: student must have earned a grade of B or higher in EDUC 7316 and have permission of the instructor.

## **ENGLISH (ENG)**

**ENG 0100 ENG 0300 Writing Review (0-0).** This course is a six-hour review of ENG 0300.

**ENG 0109 ED 0300 Reading Review (0-0).** Students will review the course material for ENG 0309. They will then take the common course final. Passing the common course final makes the student reading clear for the Texas Success Initiative (TSI). Credit in this course cannot be used to satisfy requirements for any degree.

**ENG 0110 ENG 0310 IRW Review (0-0).** This course is a six-hour review of ENG 0310.



**ENG 0300 Writing Skills (3-0).** This course is designed for students who score on an approved assessment instrument does not meet minimum requirements on the writing portion of the assessment. In this course, students will develop their writing and reading skills through daily exposure to writing and reading exercises. Topics included in this course are: grammar, sentence structure, paragraph development, and essay writing. Areas which will be emphasized for essay writing are: appropriateness, unity and focus, development, and organization. Credit in this course cannot be used to satisfy requirements for any degree. Students must earn a grade of C or better to progress to ENG 1301. (ENG 0300).

**ENG 0309 Basic Integrated Reading and Writing (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the writing and/or reading portion of the assessment. Students will develop their writing and reading skills through exposure to writing and reading exercises. Topics include grammar, sentence structure, paragraph development, main ideas, supporting details, vocabulary, purpose, and tone. Credit in this course cannot be used to satisfy requirements for any degree.

**ENG 0310 Integrated Reading and Writing Skills (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the writing and/or reading portion of the assessment. The focus of the course will be on applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The course integrates preparation in basic academic reading skills in writing a variety of academic essays. Credit in this course cannot be used to satisfy requirements for any degree. Student must earn a grade of C or better to progress to ENG 1301. Prerequisite: C or better in ENG 0300 or ED 0300 OR satisfactory score on placement exam.

**ENG 1301 (ENGL 1301) Composition I (3-0).** This is an introductory college course which emphasizes the composition of short essays and reading skills. Required of all students. Prerequisite: English 0300 or sufficient English, verbal, and reading scores to meet the requirements of English 0300 as described above.

**ENG 1302 (ENGL 1302) Composition II (3-0).** This course includes the study of various writing modes, with emphasis on exposition, critical analysis, and research techniques. Students will write well-developed, critical, persuasive, documented papers. Required of all students. Prerequisite: English 1301. **All sophomore and advanced English courses require completion of ENG 1301 and ENG 1302/ENG 2311 as a prerequisite unless otherwise noted.**

**ENG 2311 (ENGL 2311) Technical and Business Writing (3-0).** The study and practice of writing technical and professional reports related to scientific, industrial, and commercial fields. Prerequisite: ENG 1301.

**ENG 2312 Writers of the American West (3-0).** A study of writers of the American West from the nineteenth century to the present. Readings may focus on works by one author or on works by several authors.

**ENG 2315 Environmental Literature (3-0).** An ecocritical survey of literature that reflects relationships among humans, animals, and nature. Readings will span literature from rural, agricultural, Native American, Hispanic, and world cultures.

**ENG 2322 (ENGL 2322) British Literature I (3-0).** English literature of the Anglo-Saxon Period, Middle Ages, Renaissance, and Age of Reason.

**ENG 2323 (ENGL 2323) British Literature II (3-0).** English literature of the Romantic, Victorian, and Modern Periods.

**ENG 2327 (ENGL 2327) American Literature I (3-0).** A study of American literature from Colonial times through the Civil War.

**ENG 2328 (ENGL 2328) American Literature II (3-0).** A survey of American literature from the Reconstruction to the Second World War.

**ENG 2331 (ENGL 2331) World Literature (3-0).** A study of masterpieces of world literature from ancient times to 1600.)

**ENG 2341 (ENGL 2341) Forms of Literature (3-0).** Techniques of critical analysis of major literary types: prose, fiction, poetry, and drama.

**ENG 3301 Contemporary Literature (3-0).** A study which emphasizes works of fiction, drama, and poetry since 1960.

**ENG 3303 Structure and History of the English Language (3-0).** The structural essentials of English, with some treatment of the historical development of the language, from Anglo-Saxon to modern English.

**ENG 3304 Shakespeare (3-0).** Shakespeare's principal histories, comedies, and tragedies.

**ENG 3305 Dramatic Literature (3-0).** Introduction to themes in drama. Close analytical reading of play in relation to context., history, social, and aesthetic forms. Focus on character development, figurative language, setting, imagery, action, context, and origin. May be repeated for credit when course subject content varies.

**ENG 3306 Language and Culture (3-0).** A study of the role of language in cultural and/or gender relationships as it functions in social contexts.

**ENG 3307 Myth and Legend in Literature (3-0).** An examination of the role of myth and legend as they are manifest and represented in literature. Course may focus cross-culturally and/or historically, and may reflect various genres. May be repeated for credit when course subject content varies.

**ENG 3308 Culture and Literature (3-0).** An interdisciplinary and critical approach to culture and literature. Possible genres include television, film cyber culture, music and radio, and their representations in literature. May be repeated for credit when course subject content varies.

**ENG 3309 English Literature from Beowulf to 1800 (3-0). QEP MAPPED COURSE** This course surveys English literature, including the Anglo Saxon poem, Beowulf, Chaucer's tales, seventeenth and eighteenth-century poems, and some travel fiction. Prerequisite: ENG 1301 and ENG 1302

**ENG 3310 English Literature from 1800 to present (3-0).** This course is a reading and writing intensive survey of English literature. There are three chronological segments: The Romantic Period, The Victorian Period, and The Modern/Contemporary Period.

**ENG 3311 Children's and Adolescent Literature (3-0).** A survey of children's and adolescent literature and a familiarization with outstanding authors and illustrators of that literature. Includes the application of literary evaluation to children's and adolescent literature and a survey of resource. Prerequisite: English major or Interdisciplinary Studies major.

**ENG 3312 Advanced Composition (3-0). QEP MAPPED COURSE** An intensive study of writing techniques useful to the advanced writer. Areas of concentration include grammar, rhetorical strategies, and style.

**ENG 3315 World Literature I (3-0).** A study of world literature from the Ancient World to 1600.

**ENG 3316 Foundations of Literary Studies (3-0).** Techniques of critical analysis of major literary types: prose, fiction, poetry, and drama.

**ENG 3317 World Literature II (3-0).** A study of world literature from the Early Modern World to 1945.

**ENG 3320 Creative Writing: Fiction (3-0).** Emphasis on writing short stories. Includes the study of ways to examine and incorporate techniques used by established short story writers into original short fiction. Focuses on writing and critiquing original short stories.

**ENG 3321 Creative Writing: Poetry (3-0).** Emphasis on poetry. Provides intensive study of various poetic forms. Focuses on writing and critiquing original poetry.

**ENG 3322 Creative Writing: Nonfiction (3-0).** Emphasis on writing creative nonfiction (creative essays). Includes the study of various rhetorical devices used in effective creative nonfiction. Focuses on writing and critiquing original creative nonfiction.

**ENG 4300 Portfolio Capstone Course (3-0).** A course required of English majors in which they compile the portfolio of materials which must be submitted to the department for its assessment of program learning outcomes. Students enroll in this class during their final semester in the English undergraduate program.

**ENG 4302 Southwestern Literature (3-0).** A study of the literature of the Southwest with attention given to its regional characteristics and the social background that produced it.

**ENG 4303 Special Topics in Literature (3-0).** Topics include specific areas of literacy studies and will be announced in the curricular schedule for the semester in which they are offered. May be repeated for credit when topic varies.

**ENG 4304 Topics in American Literature (3-0).** Topics include specific areas of American Literature and will be announced in the schedule for the semester in which they are offered. May be repeated for credit when topic varies.

**ENG 4305 Topics in British Literature (3-0).** Topics include specific areas of British literature and will be announced in the schedule for the semester in which they are offered. May be repeated for credit when topic varies.

**ENG 4306 American Literature to 1865 (3-0).** This course is about Americans thought on the human condition of various times up to the Civil War. The course will cover period styles, major ideas and works, and understanding literary devices.

**ENG 4307 Topics of American Literature (3-0).** Topics include specific areas of American Literature and will be announced in the schedule for the semester in which they are offered. May be repeated for credit when topic varies.

**ENG 4308 American Literature to 1865 to 1940 (3-0).** This course is a critical study of American literature written from Reconstruction to the present.

**ENG 4309 Readings and Research (3-0).** Individually guided study and research in English, American or international literature or the English language. May be repeated for credit when the topic varies.

**ENG 4310 Topics in Folklore (3-0).** Emphasis on folklore in distinct cultures and literature. Topics may include Western, African- American, Women's, Native American, American, or Multicultural folklore. May be repeated for credit when topic varies.

**ENG 4312 Women in Literature (3-0).** A study of women writers, images of women in literature and feminist literary criticism. Topics may include Regional Women Writers, 19th Century Women Novelists, Women's Autobiography, Contemporary Women Poets. May be repeated for credit when topic varies.

**ENG 4313 Professional Reports (3-0).** An advanced technical communications course. Professional Reports develops knowledge and skills to successfully create cross-curricular professional documents.

**ENG 4315 Film as Literature (3-0).** A study of literacy works as recorded in the cinematic language of sound and image, considering both original film creations and adaptations from literacy works, originally in print. May be repeated for credit when course subject content varies.

**ENG 4316 Teaching Language Arts (3-0).** A study of the development of reading and writing in English, focusing on applying this knowledge to the language arts classroom. Preparation for the TExES certification exam in English Language Arts and Reading 8-12.

**ENG 4320 International Literature (3-0).** A study of contemporary international, often postcolonial, literature by authors from countries such as Australia, New Zealand, India, the Caribbean, and various African nations.

**ENG 5300 Studies and Research Techniques in Bibliography and Critical Theory (3-0).** An introduction to graduate research methods in literature, including experience in enumerative and analytical bibliography, and to critical theory as applied to literature.

**ENG 5302 Seminar: Creative Writing (3-0).** A writing workshop course which may be devoted to fiction, poetry, nonfiction, or other such genres. May be repeated for credit when topic (genre of writing) changes.

**ENG 5304 Studies and Research Techniques in General Literature (3-0).** Topics include subjects like those named below and are announced in the Schedule of courses for the semester in which they are offered: Contemporary Literature, Folklore, and Multicultural Literature. May be repeated for credit when the topic changes.

**ENG 5305 Studies and Research Techniques in English Teaching Methods (3-0).** Recent trends and discoveries in teaching methods and learning process as related to the teaching and learning of rhetoric, composition, literature, or creative writing. May be repeated for credit when the topic varies.

**ENG 5306 Seminar: Studies and Research Techniques in English Literature (3-0).** Topics include subjects like those named below and are announced in the Schedule of courses for the semester in which they are offered: Shakespeare; British Novel; Victorian Poets; Contemporary Fiction. May be repeated for credit when the topic varies.

**ENG 5307 Seminar: Studies and Research Techniques in American Literature (3-0).** Topics include subjects like those named below and are announced in the Schedule of courses for the semester in which they are offered: Thoreau; American Short Fiction; Southern Fiction; Twentieth-Century Fiction. May be repeated for credit when the topic varies.

**ENG 5308 Studies and Research Techniques in the English Language (3-0).** A study of specific problems concerned with the English language. May be repeated for credit when the topic varies.

**ENG 5309 Readings and Research (3-0).** Individually guided research in English or American literature or the English language. May be repeated for credit when the topic varies.

**ENG 6301 Thesis Proposal (0-6).** Satisfactory completion of this course will result in an acceptable prospectus presented to the Graduate Committee. The student will normally register for this course no earlier than the third semester of graduate study. The student will enroll each semester of summer term in which assistance is provided by committee members or when use of the library or other research facilities of Sul Ross State University is made.

**ENG 6302 Thesis Defense (0-6).** The student will enroll in this course each semester or summer term in which assistance is provided by committee members or when use of the library or other research facilities of Sul Ross State University is made. Satisfactory completion of this course will result in the completed thesis presented to the Graduate Committee, accepted by the Dean of the College, and filed in the Office of the Executive Vice President and Provost for Academic Affairs.

**ENGL 3301 Contemporary Literature (3-0).** A study which emphasizes works of fiction, drama, and poetry since 1960.

**ENGL 3302 Creative Writing (3-0).** Emphasis on study and practice in techniques of creative writing. Conducted in a workshop format.

**ENGL 3303 Structure and History of the English Language (3-0).** The structural essentials of English, with some treatment of the historical development of the language from Anglo-Saxon to modern English.

**ENGL 3304 Shakespeare (3-0).** Shakespeare's principal histories, comedies, and tragedies.

**ENGL 3309 English Literature from Beowulf to 1800 (3-0). QEP MAPPED COURSE** A critical study of the English literature written from approximately 700 A.D. to the end of the eighteenth century. Prerequisites: ENGL 1301 and 1302.

**ENGL 3310 English Literature from 1800 to Present (3-0).** A critical study of the English literature written from the end of the eighteenth century to the present. Prerequisites: ENGL 1301 and 1302.

**ENGL 3311 Children's and Adolescent Literature (3-0).** A survey of children's and adolescent literature and a familiarization with outstanding authors and illustrators of that literature. Includes the application of literary evaluation to children's and adolescent literature and a survey of resources available.

**ENGL 3312 Advanced Composition (3-0). QEP MAPPED COURSE** An intensive study of writing conducted in a workshop format. ENGL 3312 focuses on rhetoric; critical thinking, reading, and writing; writing processes; styling sentences; and conventions of usage, grammar, punctuation, and documentation of sources. Prerequisites: ENGL 1301 and 1302

**ENGL 3314 Nineteenth Century American Novel (3-0).** Representative novels of the Nineteenth Century. Writers such as Hawthorne, Melville, Twain, James, Howells, Norris, Crane, Chopin.

**ENGL 3315 World Literature I (3-0).** A study of world literature from the Ancient World to 1600.

**ENGL 3316 Foundations of Literary Studies (3-0).** Techniques of critical analysis of major literary types: prose, fiction, poetry, and drama.

**ENGL 3317 World Literature II (3-0).** A study of world literature from the Early Modern World to 1945.

**ENGL 4300 Portfolio Capstone Course (3-0).** A course required of English majors in which they compile the portfolio of materials which must be submitted to the department for its assessment of program learning outcomes. Students enroll in this class during their final semester in the English undergraduate program.

**ENGL 4302 Southwestern Literature (3-0).** A study of the literature of the Southwest. Major emphasis is placed upon the Southwest novel. The course includes study of the historical and cultural background of the region.

**ENGL 4303 Literary Studies (3-0).** Topics include subjects like those named below and are announced in the schedule of courses for the semester in which they are offered: Chaucer, Medieval Germanic literature, 19th Century American short story, literary theory. May be repeated for credit when topic varies.

**ENGL 4304 Modern Fiction (3-0).** Chief American and British novelists since 1900.

**ENGL 4305 Topics in British Literature (3-0).** Topics include specific areas of British literature and will be announced in the schedule for the semester in which they are offered. May be repeated for credit when topic varies.

**ENGL 4306 American Literature to 1865 (3-0).** A critical study of the American literature written from Colonial times through the Civil War. Prerequisites: ENGL 1301 and 1302.



**ENGL 4307 Topics in American Literature (3-0).** Topics include specific areas of American Literature and will be announced in the schedule for the semester in which they are offered. May be repeated for credit when topic varies.

**ENGL 4308 American Literature 1865-1940 (3-0).** A critical study of the American literature written from Reconstruction to the present. Prerequisites: ENGL 1301 and 1302.

**ENGL 4317 Young Adult Literature (3-0).** Literary analysis of young adult literature; includes study of genres, major authors, themes, and the body of works that constitute Y.A. literature.

**ENGL 4320 International Literature (3-0).** A study of contemporary international, often postcolonial, literature by authors from countries such as Australia, New Zealand, India, the Caribbean, and various African nations.

**ENGL 4327 Readings and Research (3-0).** Individually guided study and research in English or American Literature or the English language. May be repeated for credit when the topic varies. Offered only by agreement of the Chair of Dept. of Humanities. Not available for graduate credit.

**ENGL 5300 Bibliography & Critical Theory (3-0).** An introduction to graduate research methods in literature, including experience in enumerative and analytical bibliography and to critical theory as applied to literature.

**ENGL 5302 Seminar: Creative Writing (3-0).** A writing workshop course which may be devoted to fiction, poetry, nonfiction, or other such genres. May be repeated for credit when topic (genre of writing) changes.

**ENGL 5304 Seminar: Studies and Research Techniques in General Literature (3-0).** Topics include subjects such as literary criticism, comparative literature, mythology, the Latin American novel.

**ENGL 5305 Studies and Research Techniques in English Teaching Methods (3-0).** Recent trends and discoveries in teaching methods and learning process as related to the teaching and learning of rhetoric, composition, literature, or creative writing. May be repeated for credit when the topic varies.

**ENGL 5306 Seminar: Studies and Research Techniques in English Literature (3-0).** Topics include subjects like those named below and are announced in the schedule of courses for the semester in which they are offered: Shakespeare, Chaucer, 19th Century Novel, 20th Century Novel.

**ENGL 5307 Seminar: Studies and Research Techniques in American Literature (3-0).** Topics include subjects like those named below and are announced in the schedule of courses for the semester in which they are offered: Transcendentalism; American Romanticism; Rise of Realism; Twentieth Century Fiction.

**ENGL 5308 Seminar: Studies and Research Techniques in the English Language (3-0).** A study of specific problems concerned with language, such as modern and traditional theories of grammar, dialectical studies, semantics, morphology, phonology, psycholinguistics, language acquisition, and historical development.



## **FINANCE (FIN/FINA)**

**FIN 1101 Personal Financial Literacy (1-0).** The topics to be covered will include, but are not limited to, budgeting, managing debt and credit, saving and investing, preventing identity theft, and retirement planning.

**FIN 3340 Corporate Finance (3-0).** Money and Capital Markets, financial news, and investor services; and gives a broad view of the entire financial field with special emphasis on discounted cash flow analysis, stock and bond valuation models, financial statement analysis, capital budgeting, cost of capital, and working capital management.

**FIN 4342 Investments (3-0).** Sources of information for investors; investment planning; securities selection; types of stocks and bonds; investment companies. Prerequisite: FIN 3340

**FIN 5306 Seminar in Financial Management (3-0).** The role and objectives of financial management in the modern corporation: nature and mathematical formulation of underlying relationship in financial decision-making. Theories of capital budgeting, cost of capital, and investment.

**FIN 5311 International Financial Management (3-0).** This course stresses the essential elements of international commerce and corporate strategies covering international investing, monetary systems, controlling currency risks including use features, forward contracts and swaps.

**FINA 3340 Corporate Finance (3-0).** Money and Capital Markets, financial news, and investor services; and gives a broad view of the entire financial field with special emphasis on discounted cash flow analysis, stock and bond valuation models, financial statement analysis, capital budgeting, cost of capital, and working capital management.

**FINA 4303 Investments (3-0).** A study of investment plans, security markets, return and risk, time value of money, portfolio concepts, common stock investments, and bond investments. Prerequisite: FINA 3302

**FINA 4323 Management of Financial Institutions (3-0).** A study of management of liquidity, investment portfolios, loans, deposits, and non-deposit borrowing of financial institutions in the legal environment. Prerequisite: FINA 3302

**FINA 5306 Seminar in Financial Management (3-0).** The role and objectives of financial management in the modern corporation: nature and mathematical formulation of underlying relationship in financial decision-making. Theories of capital budgeting, cost of capital, and investment.

**FINA 5320 Personal Finance (3-0).** An introductory course examining various aspects of budgeting, investment, insurance, and retirement planning. An in-depth study of pricing and selection strategies in relation to securities markets.

## **FINE ARTS (FA)**

**FA 1302 (MUS 1306) Music Appreciation (3-0).** This course develops music appreciation through an exploration of the relationship between musical symbolic sounds and technological innovations with a focus on instrument construction and musical composition. The course familiarizes students with music technology in a broad array of historical and geographical music environments through readings, lectures and hands-on exercises covering the timbres, scales, rhythms and forms that instruments produce, the contexts people play instruments in, and the reasons why they play.

**FA 1315 (HUMA 1315) Fine Arts Appreciation (3-0).** A survey course which introduces students to selected fine arts areas. The course is taught in three blocks, one each for art, music, and theatre. A specialist in each area will present information of a practical and historical nature, emphasizing aesthetic values and accessibility for lay persons.

**FA 2301 Special Topics (2-1).** A course dealing with topics in the study of fine arts, such as investigations into the history of theatre, film, dance, music and/or the visual arts. Course may be repeated for credit.

**FA 2302 Intro to Digital Design (3-0).** A course in digital-imaging techniques using Adobe Photoshop and Adobe Illustrator. The course will focus on digital image editing and enhancement, basic design techniques, and image creation.

**FA 2305 Design II: Three Dimensional Design (3-0).** This course is an introduction to the principles of three-dimensional design, and the construction of three-dimensional space as a design element. This course will utilize traditional and computer-based approaches to teach the student to develop compelling three-dimensional designs for product and industrial design, architecture, exterior and interior design, gaming and virtual environments as well as a variety of other applications.

**FA 3301 Arts Administration (3-0).** An introduction to the business side of performing and visual arts. Will include promotion/merchandising, organizational management, legal aspects, fund raising, and career planning/development.

**FA 3302 Advanced Digital Imaging (3-0).** A course in advanced digital imaging techniques including Photoshop and Illustrator. The course will focus on advanced digital image editing, digital painting and illustration.

**FA 3303 Field Studies (3-0).** A discussion of subjects such as writing reviews, press releases, visiting professional public, private and non-profit venues, interviews with artists and behind the scene looks at museum, theaters, foundations and studios. Class also includes resume and portfolio development, career choices, marketing and sales, and other areas which are of interest and importance to all visual and performing arts students. (Includes an optional major field trip out of the area. Required for all majors – preferably taken in junior year.)

**FA 4101 Senior Capstone Project (3-0).** The Senior Capstone is the culminating course for the Visual and Performing Arts Major. Each Capstone is a follow-through of a proposal for the project written by students with the help and encouragement of their academic advisor. It is aimed at providing students with the opportunity to integrate the knowledge and skills they have acquired within their area of specialization and share it in a public form. Prerequisites: Written proposal and permission of instructor.

## **FIRST YEAR SEMINAR (SRSU)**

**SRSU 1101 First Year Seminar (1-0).** This course focuses on (1) the psychology of learning, cognition, and motivation, (2) factors that impact learning, and (3) application of learning strategies. Students use assessment instruments (e.g. learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Additional topics include goal-setting, motivation, educational and career planning, time-management, note-taking, preparing for exams, and utilizing learning resources. Students developing these skills should be able to continually draw from this course.

## **FRENCH (FREN)**

**FREN 1411 (FREN 1411) Beginning French I (4-0).** An introductory course for students with no previous knowledge of the language. Focus on the basic skills of listening, speaking, reading, and writing.

**FREN 1412 (FREN 1412) Beginning French II (4-0).** A continuation of French 1401 with additional practice in the four basic skills of listening, speaking, reading, and writing. Prerequisite: French 1411 or consent of the instructor.

**FREN 2311 (FREN 2311) Intermediate French I (3-0).** Third semester of college French. A continuation of French 1411 and 1412. Continued development and review of speaking, reading, and writing skills in French. Includes literary and cultural readings. Prerequisite: French 1412 or consent of instructor.

**FREN 2312 (FREN 2312) Intermediate French II (3-0).** Fourth semester of college French. A continuation of French 2311. Conversation, composition, literary and cultural readings, and grammar review. Prerequisite: French 2311.

## **FRESHMAN LEADERSHIP PROGRAM (FLP)**

**FLP 1101 Freshman Leadership Program (1-0).** This course is developed for students who exhibit leadership potential as student leaders. Students receive a scholarship to attend and are expected to lend their talents to the Sul Ross State University through student clubs and organizations. This course will cover basic leadership theory and provide practical application in the educational content. It is an introductory course covering a broad range of leadership topics from self-development and understanding self to group behavior, organizational design, ethics and teamwork. Prerequisite: Permission of instructor.

**FLP 2101 Freshman Leadership Program Sophomore Assistant (1-0).** This course is developed for students who exhibit leadership potential in the Freshman Leadership Program (FLP). Students receive a scholarship to attend and are expected to lend their talents to the Sul Ross State University through student clubs and the Freshman Leadership Program. It is an introductory course covering a broad range of leadership topics from self-development and understanding self to group behavior, organizational design, ethics and teamwork. Prerequisite: FLP 1101

## **GENERAL BUSINESS ADMINISTRATION (GBA/GBUS)**

**GBA 1301 (BUSI 1301) Business Principles (3-0).** Introduction to the role of business in modern society. Overview of business functions as well as introduction various business and societal issues, including contemporary dimensions of business as ethics, social responsibilities, changes in the workplace and international dimensions of business are considered.

**GBA 2199 Applied Research/Internship/Independent Study (1-0).** This course is designed expressly for students with sufficient curiosity and demonstrated ability to work independently while under the guidance of a professor. Content may include, but not limited to, selected reading; topic investigations and projects. Prerequisite: Consent of Instructor.

**GBA 2299 Applied Research/Internship/Independent Study (2-0).** This course is designed expressly for students with sufficient curiosity and demonstrated ability to work independently while under the guidance of a professor. Content may include, but not limited to, selected reading; topic investigations and projects. Prerequisite: Consent of Instructor.

**GBA 2399 Applied Research/Internship/Independent Study (3-0).** This course is designed expressly for students with sufficient curiosity and demonstrated ability to work independently while under the guidance of a professor. Content may include, but not limited to, selected reading; topic investigations and projects. Prerequisite: Consent of Instructor.

**GBA 3199 Applied Research/Internship/Independent Study (1-0).** This course is designed expressly for students with sufficient curiosity and demonstrated ability to work independently while under the guidance of a professor. Content may include, but not limited to, selected reading; topic investigations and projects. Prerequisite: Consent of Instructor.

**GBA 3299 Applied Research/Internship/Independent Study (2-0).** This course is designed expressly for students with sufficient curiosity and demonstrated ability to work independently while under the guidance of a professor. Content may include, but not limited to, selected reading; topic investigations and projects. Prerequisite: Consent of Instructor.

**GBA 3350 Business Information Systems (3-0).** Introduction to information systems in business. Hands on exposure to business applications software in microcomputer laboratories. Practical experience in the principles of information technology.

**GBA 3351 Business Law (3-0). QEP MAPPED COURSE** Legal aspect of business transactions with emphasis on the law of contracts, agency, bailment, and commercial paper.

**GBA 3352 Quantitative Methods in Business (3-0).** A study of data presentation, descriptive measures, probability distributions, sampling distributions, confidence intervals, and hypothesis testing with emphasis on business applications. Prerequisite: MATH 1314

**GBA 3399 Applied Research/Internship/Independent Study (3-0).** This course is designed expressly for students with sufficient curiosity and demonstrated ability to work independently while under the guidance of a professor. Content may include, but not limited to, selected reading; topic investigations and projects. Prerequisite: Consent of Instructor.

**GBA 4350 Advanced Readings and Research in Business Administration (3-0).** Selected seminar topics in business administration.

**GBA 4360 Business Capstone (3-0).** The BBA capstone course involving the integration of all functional business areas. Emphasis on management decision making as it pertains to planning, implementing, and evaluating organizational strategy. Prerequisites: Business Major – Senior standing

**GBA 4355 International Business (3-0).** Covers the economic underpinnings of free trade; investment and trade barriers; foreign direct investment; the multi-national enterprise; assessing the international business environment; and global organization and strategy.

**GBA 5302 Readings and Cases in Business Administration (3-0).** Covers one or more special fields. Separate sections for accounting, finance, marketing, quantitative analysis, risk management, industrial management, personnel and industrial relations and other fields are dealt with as needed. May be repeated for graduate credit when topic changes.

**GBA 5304 Management Information Systems (3-0).** Function of management information systems, decision support systems, executive information systems, and expert systems in business decision making, planning, and control. Management participation information system design and development.

**GBA 5308 Problems in Business Administration (3-0).** An investigation, analysis, and discussion of business problems, trends, policies, and special topics. May be repeated for credit as topics change.

**GBA 5309 Quantitative Analysis and Decision Theory for Business (3-0).** A study of decision-making under uncertainty, decision-making under risk, decision trees, utility theory, linear regression, time series forecasting models, linear programming (graphical methods and simplex method), and project management. (PERT/CPM).

**GBA 5310 Project Management (3-0).** Project management is the application of skills, knowledge, tools and techniques to various project activities for the successful execution and achievement of project requirements and objectives. Retained concepts and principles from the areas of initiating, planning, executing, monitoring, controlling, and closing process groups are also considered. Specific topics and areas covered may include project integration, project scope, project time & cost and project risk assessment. The course may use cases, problems, and specific project management processes.

**GBA 5311 Business Strategy (3-0).** The MBA capstone course integrates the different functional business areas. Emphasis on strategic management decision making as it pertains to planning, implementing and evaluating organizational strategy. Prerequisite: 15 SCH of MBA Required Courses.

**GBUS 3350 Management Information Systems (3-0).** Exposure to business applications software from the perspective of a manager. Emphasis on the changing nature of information and the data needs of managers. Consideration of the expansion of E-Business and how that affects business functions. Emphasis on the vast array of options for managing information and exposure to techniques for improving management decisions. The course also considers practical approaches to understanding some associated areas of BIS such as the impact of large technology companies on their competitors and the linkage of social media with BIS and the issues that these dynamic areas create.

**GBUS 3351 Business Law (3-0).** Legal aspect of business transactions with emphasis on the law of contracts, agency, bailment, and commercial paper.

**GBUS 3352 Quantitative Methods in Business (3-0).** A study of data presentation, descriptive measures, probability distributions, sampling distributions, confidence intervals, and hypothesis testing with emphasis on business applications. Prerequisite: MATH 1314

**GBUS 4305 Business and Society (3-0).** A study of the major laws and social issues affecting business policy and practice. This course examines the corporation and its stakeholders, corporate social responsibility, ethical issues in business, corporate governance, the community and the corporation, and other current ethical and social issues related to the firm and society.

**GBUS 4315 Seminar in Business Administration (3-0).** Selected topics in business administration to be offered as an elective course to meet students' needs. May be repeated for credit when course topic changes.

**GBUS 4320 Real Estate Principles (3-0).** An introduction to real estate principles and markets. Emphasis is placed on real property, contract and agency law, financing, home ownership and real estate mathematics. Designed to inform and educate students and prepare them to become informed property owners and consumers. Prerequisite: MKTG 3307

**GBUS 4355 International Business (3-0).** Covers the economic underpinnings of free trade; investment and trade barriers; foreign direct investment; the multi-national enterprise; assessing the international business environment; and global organization and strategy

**GBUS 4360 Business Capstone (3-0).** The BBA capstone course involving the integration of all functional business areas. Emphasis on management decision making as it pertains to planning, implementing, and evaluating organizational strategy. Prerequisites: Business Major – Senior standing

**GBUS 5301 Business Research and Reporting (3-0).** Designed to aid graduate students in analyzing reports and evaluating research and in planning research reports. Selection of research problems, sources of data, analysis, presentation and report-writing are investigated. (MBA Core Course)

**GBUS 5302 Readings and Cases in Business Administration (3-0).** Covers one or more special fields. Separate sections for accounting, finance, marketing, quantitative analysis, risk management, industrial management, personnel and industrial relations and other fields are dealt with as needed. May be repeated for graduate credit when topic changes.



**GBUS 5309 Quantitative Analysis and Decision Theory for Business (3-0).** A study of decision-making under uncertainty, decision-making under risk, decision trees, utility theory, linear regression, time series forecasting models, linear programming (graphical methods and simplex method), and project management. (PERT/CPM).

## **GENERAL STUDIES (GS)**

**GS 4100 Senior Assessment (1-0).** Senior Assessment is a capstone course in which the students demonstrate proficiency in research and analysis through the engaging in original research.  
Prerequisite: Senior standing (90 sch completed)

## **GEOGRAPHY (GEOG/GGR)**

**GEOG 1302 (GEOG 1303) World Regional Geography (3-0).** A regional study of the world in a survey course which uses the basic elements as tools for observation and analysis in revealing the interrelationships of features involving man and different areas of the earth.

**GEOG 2302 Geography of the North America (3-0).** An overview of significant physical and human elements of the United States and Canada and their relationships within a setting of fourteen specific regions.

**GEOG 2303 Geography of Environment and Society (3-0).** This course introduces students to the study of relationships between people and the environment from a social science perspective, and provides a context for thinking about the social causes and consequences of environmental changes in different parts of the world. The course will analyze how human use of the environment has varied over time and space. Course examines decision-making about environment issues and the relative roles of culture, institutions, technology, and economy in causing and resolving contemporary environmental problems around the world.

**GEOG 2308 Readings and Research. (0-3).** Selected readings and research projects to be offered as individual study to meet student's needs. May be repeated for credit.

**GEOG 3301 Geography of Texas (3-0).** A topical study of the physical and cultural elements of Texas which reveal the great diversity of a growing and vibrant state. Features examined include the landscape, cultural groups, and various economic activities

**GEOG 3302 Readings and Research in Geography (3-0).** An individualized course with varying topics to be chosen by the instructor in consultation with the student. May be repeated once.

**GEOG 3303 Special Topics in Geography (3-0).** Selected topics in Geography. May be repeated for credit when the topic varies.

**GEOG 4301 Geography of the Borderlands (3-0).** This course provides a political and geographical look at the U.S. Borderlands. Examination of historical and current territory, law and policy, natural environment, border culture and diverse people groups. Course content would include analysis of immigration, security/terror discourse, indigenous nations and international economic networks (legal and illegal). At times, a thematic approach may be employed with focus on indigenous Nations on U.S. borders, water rights, natural resource and wildlife management, or other issues between nation-states.



**GGR 4301 World Regional Geography (3-0).** Geography of the major world regions to include the study of population, environment, cultural patterns, urbanization, and the organization of economies.

**GGR 4302 Geography of Texas (3-0).** The geography of Texas to include a study of population, culture patterns, environment, urbanization, and economic organization.

**GGR 4304 Geography of North America (3-0).** A study of the physical and cultural geography of the United States, Canada, and Mexico.

**GGR 4327 Readings and Research in Geography (3-0).** An independent study of certain topics in geography.

## **GEOLOGY (GEOL)**

**GEOL 1103 (GEOL 1103) Physical Geology Lab (0-2).** Laboratory exercises emphasizing hands-on work with geologic materials as well as application of Physical Geology principles and concepts. Minerals, igneous rocks, sedimentary rocks and metamorphic rocks will be examined, described, tested and identified. Sediment porosity and permeability will be tested. Topographic maps will be examined and a topographic map and cross section drawn. Geologic structures will be examined and a structure cross-section drafted. Geologic maps will be examined and interpreted. Relative dating and absolute dating will be used to interpret timing of geologic events. Lab fee: \$8

**GEOL 1104 (GEOL 1104) Historical Geology Laboratory (0-2).** Laboratory exercises emphasizing hands-on work with geologic materials as well as application of Historical Geology principles and concepts. Minerals, igneous rocks, sedimentary rocks and metamorphic rocks will be examined and identified. Relative dating will be used to interpret timing of geologic events. The Geologic Time Scale and major events in the Earth's history will be examined. Sedimentary depositional environments, as well as their facies relationships, will be studied through examination of characteristic sediments and rock types. Representative fossils from the Paleozoic, Mesozoic and Cenozoic will be examined and identified. Prerequisite: GEOL 1303. Lab fee: \$8

**GEOL 1105 (GEOL 1105) Environmental Geology Laboratory (0-2).** Laboratory will consist of the study of a variety of environmental problems. Lab fee: \$8

**GEOL 1303 (GEOL 1303) Physical Geology (3-0).** This course covers the nature and properties of the materials which make up the earth, the distribution of these materials throughout the earth, the processes (volcanism, glaciation, stream erosion, weathering, etc.) by which these materials are formed, altered, transported, and deformed and the nature and development of the landscapes.

**GEOL 1304 (GEOL 1304) Historical Geology (3-0).** A study of the record of life forms (fauna and flora) that evolved throughout the geologic time 4.5 billion years ago up to the occurrence of man. It also covers the physical changes of the earth through 4.5 billion years of advancing and retreating seas, of deposition, and of erosion of rocks, fashioned into mountain ranges-the entire chronological history of how processes of physical geology have operated. Prerequisite: Geology 1303

**GEOL 1305 (GEOL 1305) Environmental Geology (3-0).** This course emphasizes the complex relations between the land, sea and atmosphere and human activities. Topics include: geologic hazards, land management use, water resources, hazardous waste disposal, energy and mineral resources, conservation of natural resources, and atmosphere and ocean sciences. This course may be used by persons seeking earth science teacher certification.

**GEOL 2401 Lithology (3-2).** Introductions to the basic concepts of identification, classifications and origins of igneous, sedimentary and metamorphic rocks. Laboratory exercises consist of hand specimen identification and classification of suites of all three rock classes. Prerequisite: Geology 1311/1103

**GEOL 2405 (GEOL 2405) Optical Mineralogy (3-3).** Introduction to crystallography, crystal chemistry, and optical mineralogy. Identification of minerals by physical, optical, and X-ray diffraction techniques. Prerequisite: Geology 1303, 1103, Chemistry 1311, 1111. Lab fee: \$8

**GEOL 2408 Geological Field and Computational Skills (2-4).** This course will focus on computational skills and their application to modern field data collection. The course will begin with an overview of computational skills as they relate to field data collection and processing. Students will learn to use Excel, Python, Octave and ArcMap using real data examples. Field trips will then be conducted to collect data. Equipment to be used on the trips will be selected from: an Unmanned Aerial Vehicle (UAV), a ground based LIDAR instrument, a Total Station, an RTK GPS and an Acoustic Doppler Current Profiler (ADCP). Prerequisite: GOL 1304/1104. Lab fee: \$8

**GEOL 3301 Geology of West Texas (3-0).** Designed as an introduction the geology of West Texas, this course contains a brief introduction to general geology followed by outlines of the geologic evolution of the region. Topics range from billion -year-old continental collisions, through deep sea deposition, coral reefs, explosive volcanism, mineral and petroleum deposits, to the evolution of the present day West Texas landscape. Optional field trips will be available. Prerequisite: Geology 1304

**GEOL 3302 Dinosaurs, Volcanoes and Earthquakes (3-0).** Designed to introduce the non-major to recent developments and theories dealing with the changing face of the Earth and some of the animals that lived on it. New views on dinosaurs, their lives and their ultimate extinction. The distribution, causes, effects, and prediction of earthquakes and volcanoes. This course does not count toward advanced hours for Geology majors.

**GEOL 3305 Geology of the Western National Parks (3-0).** This course is a survey of the geology of the National Parks of the western United States. Some National Monuments and state parks are also covered. Emphasis is placed on stratigraphy, paleogeography and paleo environments. National Park geology is used to interpret the development of the western margin of North America. Prerequisite: GEOL1304.

**GEOL 3311 Special Topics (3-0).** This is a junior level course covering various material in geology. It may be repeated for credit when course topic varies. Prerequisite: GEOL 1304.

**GEOL 3401 Interdisciplinary Geographic Information Systems (2-4).** This course is designed to introduce the concepts of computer- based spatial data handling, referred to as geographic information systems (GIS). The interdisciplinary approach focuses on bringing students from diverse academic backgrounds together in a team effort to learn the fundamentals of GIS, including data, sources, input, manipulation, and output presentation. It is recommended that the student have completed an introductory class in one of the following: geology, biology, natural resource management, or archaeology. Prerequisite: Computer proficiency required. Lab fee: \$8

**GEOL 3402 Structural Geology (3-3). QEP MAPPED COURSE** A study of the structural features (faults, folds, etc.) their classification, identification, occurrence, causes, and geographic distribution. Course includes two required weekend field trips. Lab fee: \$8

**GEOL 3403 Advanced Geographical Information Systems (3-3).** This course is designed to build on the skills learned in the Interdisciplinary GIS class. Topics will include a review of advanced vector analysis, followed by a detailed coverage of raster based analysis. Projects will include the creation and manipulation of digital elevation models, classification on aerial and satellite imagery, and vector to raster conversion and analysis. The projects and assignments will utilize an extensive Trans-Pecos spatial database housed in the Sul Ross GIS lab. Software used will include the Spatial and 3D Analyst extension for ArcGIS and ERDAS Image. Prerequisite: Geology 3401 or approval of instructor. Lab fee: \$8

**GEOL 3408 Stratigraphy and Sedimentation (3-3).** A study of the processes governing the formation and distribution of recent sediments, which established the guiding principles used in the classification, correlation and interpretation of ancient, stratified sedimentary rocks. The stratigraphic record is largely the result of the continuity of sedimentary processes through the dimension of geologic time. Prerequisite: Geology 1304/1104. Lab fee: \$8

**GEOL 3411 Invertebrate Paleontology (3-3).** The course deals with the morphology, classification, identification, evolutionary trends and geological distribution of invertebrate fossils. Laboratory work consists of systematic study of index fossils as well as representative fossils of various phyla. Prerequisite: Geology 1304/1104 or permission of the instructor. Lab fee: \$8

**GEOL 3412 Geomorphology (3-3).** An introduction to the study of geologic processes operating at the Earth's surface and the landforms produced by those processes. Fluvial, glacial, coastal, groundwater, soil, and both wind and water weathering processes will be studied along with lithologic and structural influences. Labs include interpretation of air photos and topographic maps as well as field studies. Prerequisite: Geology 1303/1103. Lab fee: \$8

**GEOL 3421 Special Topics (3-3).** This is a junior level lecture and lab course covering various topics in geology. It may be repeated for credit when course topic varies. Lab fee: \$8

**GEOL 4101 Research (1-0).** Research by the student into a carefully outlined problem in the earth or geologic sciences. May be repeated for credit when topics vary.

**GEOL 4102 Introduction to Field Geology (0-2).** This course reviews fundamental geologic field methods including proper use of the Brunton® Pocket Transit, measuring stratigraphic sections, geologic mapping, constructing geologic cross sections, and conduct/safety. There will be four separate field projects comprising four weekend trips to Big Bend National Park and surrounding regions as well as a number of classroom meetings. Students will produce hand-drawn geologic maps and cross sections, a general stratigraphic log, and field reports. This course is for Junior or Senior-level students intending to take Geology field Camp the following summer. Prerequisite: GEOL 1303/1103

**GEOL 4301 Research (3-0).** In this course, the student researches a carefully outlined problem in the earth or geologic sciences. Prerequisite: GEOL 1304 and GEOL 2405. Geology major of junior or senior classification.

**GEOL 4308 Tectonics (3-0).** A detailed study of geologic features related to tectonic-plate margins around the world, with emphasis on convergent margins and the frontier research currently conducted there. Topics also include plate reconstruction, mantle plumes, and early-earth tectonics. Prerequisites: GEOL 1303/1103 & 3402

**GEOL 4311 Special Topics (3-0).** This is a senior-level course covering various topics in geology. It may be repeated for credit when course topic varies. Prerequisite: GEOL 1304 and GEOL 2405. Geology major of junior or senior classification.

**GEOL 4401 Sedimentary Petrology (3-3).** The course concerns the laws of sedimentation, the origin, history, description, classification, and interpretation of sedimentary rocks. It also involves determination of the rock types in the source areas. Laboratory work consists of petrographic investigation of thin sections of sedimentary rock types. Prerequisite: Geology 2405, 3408. Lab fee: \$8

**GEOL 4402 Special Problems (3-3).** This course consists of individual directed readings and conference on special topics in geology. A lecture or seminar format may be used when sufficient interest exists in a topic. Course may only be used once for credit. Prerequisite: GEOL 1303, 1103, 1304, 1104 and 2405. Lab fee: \$8

**GEOL 4403 Igneous and Metamorphic Petrology (3-3).** A study of the mode of origin, environment, evolution, characteristics and association of igneous and metamorphic rocks. Laboratory consists of hand specimen and petrographic examination of igneous and metamorphic rock suites from differing environments. Prerequisite: Geology 2405, and Chemistry 1311, 1111. Lab fee: \$8

**GEOL 4418 Groundwater Hydrology (3-3).** A detailed, analytical, quantitative discussion of the occurrences and movements of waters beneath the Earth's surface. Topics include: the hydraulics of water flow through aquifers and the geologic setting for them as well as considerations for their development as water sources. A combination of lecture, field and lab exercises emphasize the subsurface part of the hydrologic cycle in various rock types, and the quantities and qualities (physical and chemical) of ground water. Prerequisite: GEOL 1303 and GEOL 1103. Lab fee: \$8

**GEOL 4421 Special Topics (3-3).** This is a senior level lecture and lab course covering various topics in geology. It may be repeated for credit when course topic varies. Lab fee: \$8

**GEOL 4601 Field Geology (3-6).** A six week summer field course on the methods or techniques of geological surveying, the nature and construction of topographic and geological maps, measurement of stratigraphic sections, and preparation of geological reports. Prerequisite: GEOL 3402, 3408, 4401, 4403, or permission of instructor. Field school fee: \$175 – \$1800

**GEOL 5101 Graduate Seminar (1-0).** The course deals with modern fields of research in the geosciences. The format varies from group discussions to the presentation of oral reports. The course can be taken for credit up to a maximum of three times. At least one semester is required of all students.

**GEOL 5302 Special Problems. (3-0).** Qualified students may pursue independent laboratory or field problems under the supervision of the staff. A project proposal is required before enrollment.

**GEOL 5304 Special Topics (3-0).** A seminar or lecture format may be used when sufficient interest exists in a timely topic. Prerequisite: Graduate standing in geology and by arrangement with the instructor.

**GEOL 5306 Advanced Structural Methods (3-0).** Discussion of new geophysical, paleomagnetic, and structural methods. Application of these methods in resolving large-scale structural problems to scale, applied structural problems.

**GEOL 5308 Advanced Igneous Petrology (3-0).** A study of the origin, emplacement, and distribution of igneous rocks utilizing thermodynamics, phase equilibria, major and trace elements, and isotope geochemistry.

**GEOL 5317 Aqueous Geochemistry (3-0).** The course involves the study of the geochemistry of surface and groundwater as applied to geologic and environmental problems. Prerequisite: Geology 3410 and Chemistry 3404 recommended

**GEOL 5320 Advanced Paleontology (3-0).** Understanding the basic principles of evolution and ecology through the study of fossil organisms. The use of fossils in paleoenvironmental interpretations.

**GEOL 5322 Stratigraphic Analysis (3-0).** The determination of the depositional history of sedimentary rocks by the study of lithology and paleontology.

**GEOL 5326 Carbonate Petrology (3-0).** Origin, classification and diagenesis of ancient and modern carbonate rocks and sediments.

**GEOL 5328 Advanced Sedimentation (3-0).** Selected recent sedimentary environments and their ancient counterparts. Methods of investigation of sediments and sedimentary rocks with emphasis on terrigenous environments and rocks.

**GEOL 5332 Dynamic Stratigraphy (3-0).** An analysis of the stratigraphic record emphasizing the relationships between dynamic processes and facies changes in modern and ancient environments.



**GEOL 5334 Geological Methodology (3-0).** This hands-on course is designed to orient the Geology graduate student to geological research and project design field and lab work, writing and presentation of results. Students will use the geologic literature and sources available in the library and on-line. Students will be made familiar with the geology of west Texas. Field and lab methods of gathering geological information will be demonstrated and practiced. Students will learn about the scientific method and will devise a problem and a methodology to gather data. Students will write outlines and rough drafts. Plagiarism, formatting and editing will be covered. The different MS options will be covered.

**GEOL 5402 Interdisciplinary Geographical Information Systems (3-3).** This course is designed to introduce the concepts of computer- based spatial data handling, referred to Geographical Information systems (GIS). The interdisciplinary approach focuses on bringing students from diverse academic backgrounds together in a team effort to learn the fundamentals of GIS, including data sources, input, and analysis, and presentation of results. It is recommended that the student have completed an introductory class in one of the following: geology, biology, natural resource management, archeology, geography, or criminal justice. This graduate version of the class will require a term research project, preferably related to thesis project. Prerequisite: Computer proficiency required. Lab fee: \$8

**GEOL 5403 Advanced Geographical Information Systems (3-3).** This course is designed to build on the skills learned in the Interdisciplinary GIS class. Topics will include a review of advanced vector analysis, followed by a detailed coverage of raster- based analysis. Projects will include the creation and manipulation of digital elevation models, classification on aerial and satellite imagery, and vector -to- raster conversion and analysis. The projects and assignments will utilize an extensive Trans-Pecos spatial database housed in the Sul Ross GIS lab. Software used will include the Spatial and 3D Analyst extension for ArcGIS and ERDAS Image. The graduate requirements will include a term research project related to the individual student's research interest. Prerequisite: Geology 3401, Geology 5402, or approval of instructor. Lab fee: \$8

**GEOL 5404 Special Topics (3-3).** A seminar or lecture format may be used when sufficient interest exists in a timely topic. Prerequisite: Graduate standing in geology and by arrangement with the instructor. Lab fee: \$8

**GEOL 5405 Special Problems (4-0).** Qualified students may pursue independent laboratory or field problems under the supervision of the staff. A project proposal is required before enrollment.

**GEOL 6040 Thesis Research (0-18).** The student will enroll in this course after earning credit for GEOL 6301 each semester or summer term in which assistance is provided by committee members or when use of the library or other research facilities of Sul Ross State University is made. The course is variable for 1 to 9 credit hours, and may be repeated with approval of advisor. Credit hours earned may not be applied towards the 30 or 36 hours required for the degree. Prerequisite: Master of Science students that have been admitted to candidacy

**GEOL 6301 Thesis Proposal (0-6).** Satisfactory completion of this course requires an acceptable prospectus presented to the Graduate Committee. The student will normally register for this course no earlier than the second semester of graduate study. The student will enroll each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made.

**GEOL 6302 Thesis Defense (0-6).** The student will enroll in this course at the time of the defense, and after earning credit for GEOL 6301 (Thesis Proposal). Satisfactory completion of this course will result in the completed thesis presented to the Graduate Committee, accepted by the Dean of the School, the Dean of the Graduate School, and filed in the Office of the Provost and Vice President for Academic and Student Affairs. Prerequisite: GEOL 6301.

## **HISTORY (HIST/HST)**

**HIST 1301 (HIST 1301) History of the United States to 1877 (3-0).** A general survey of the history of the United States from the discovery of the New World to 1877.

**HIST 1302 (HIST 1302) History of the United States Since 1877 (3-0).** A general survey of the history of the United States from 1877 to the present time.

**HIST 2301 (HIST 2311) World History to 1500 (3-0).** A survey of world history from the ancient world until the end of the fifteenth century.

**HIST 2302 (HIST 2312) World History Since 1500 (3-0).** A survey of European history since the 15th century to the present.

**HIST 2303 Readings and Research (0-3).** Selected readings and research projects to be offered as individual study to meet student's needs. May be repeated for credit.

**HIST 3300 Ancient Civilization (3-0).** A history of the ancient civilizations of the Near East, Greece, and Rome to the 4th Century.

**HIST 3301 The Middle Ages to 1350 (3-0).** A history of the political, social, and intellectual development of medieval society to the 14th century.

**HIST 3304 Europe: 1655-1870 (3-0).** The history of Europe from the late 17th century to the mid-19th century. The course will cover the constitutional conflict in England, the emergence of Russia as a European power, the intellectual ferment of the Enlightenment, the French Revolution and the eclipse of the Ancient Regime, and the beginning of the Industrial Revolution.

**HIST 3305 Europe: 1870 to the Present (3-0).** This course stresses the impact of the Industrial Revolution on European society, the problems of modernization in traditional societies, growth of the 19th century "isms," the impact of World War I, the rise of totalitarianism, the effects of world-wide depression, World War II, and the problems of post-war reconstruction.

**HIST 3306 History of Native Americans (3-0).** This course is designed to familiarize the student with the history, cultures, peoples, and religions of Native Americans. The course spans the pre-Colombian, colonial, early American, nineteenth and twentieth centuries' experience

**HIST 3307 History of Pre-Columbian and Colonial Mexico (3-0).** This course examines the history of Mexico from its earliest beginnings through the civilizations of the Olmec, Maya, and Aztecs. The impact of the Spanish Conquest of Mexico and the subsequent colonial society through the Independence War of 1810-1821.

**HIST 3308 History of Mexico (3-0).** A survey of Mexico from pre-Columbian times to the present.



**HIST 3309 History of Texas (3-0).** A survey of the history of Texas from Native American groups to the present, stressing cultural, political, and social developments.

**HIST 3310 History of Western America (3-0).** A study of the American West during the nineteenth century, emphasizing the successive frontiers, such as explorers, the mountain men, the cattlemen, the railroads, and the farmers.

**HIST 3311 The Study of History (3-0). QEP MAPPED COURSE** An introduction to the techniques and the materials important to the study of history.

**HIST 3312 American Foreign Policy and the Cold War 1945-1991 (3-0).** This course covers the history of American Foreign Policy as it relates to the history of the U.S.-Soviet Cold War 1945-1991.

**HIST 3313 The Mexican American in United States History (3-0).** Survey of the history of the Mexican Americans of the United States, relating their collective experience to Mexican and United States history. Emphasis will be placed on interactions between Mexican-Anglo American cultures.

**HIST 3314 History of African Americans (3-0). QEP MAPPED COURSE** Social, political, economic, and cultural history of African American in the United States since its beginnings. A comparison of the African American experience with the experiences of other Americans.

**HIST 4304 History of Immigration and Ethnicity in America (3-0).** This course examines the history of immigration and the issue of ethnicity and multiculturalism in the United States from the 18<sup>th</sup> century through the present. This course will focus on immigration from Europe and Asia from the early colonial era through the present.

**HIST 4305 History of Modern Asia (3-0).** The focus of this course is East Asia, that is, the Confucian societies of China, Korea, Vietnam, and Japanese model. The course begins with the late traditional era and proceeds to the present. Basic historiographical issues are introduced.

**HIST 4315 Nineteenth Century US History (3-0).** A survey of or a thematic approach to 19th Century American history. Themes might include economic, cultural, political, or ethnic topics, to name a few. Approaches will vary.

**HIST 4316 Readings and Research (3-0).** An individualized course with varying topics to be chosen by the instructor in consultation with the student. May be repeated once.

**HIST 4317 Special Topics (3-0). QEP MAPPED COURSE** Selected Topics in areas of history. May be repeated for credit when the topic varies. When U.S. History is the topic, the course may be used to meet U.S. History requirements.

**HIST 4318 The American Revolution and Construction (3-0).** This course covers the history of the American War for Independence against Great Britain and the early years of the Republic through the writing of the U.S. Constitution.

**HIST 4320 Twentieth Century America (3-0).** A survey of or a thematic approach to 20th Century American history. Themes might include economic, cultural, political, or ethnic topics to name a few. Approaches will vary.

**HIST 4321 History of American Women (3-0).** A study of American women from the colonial period to modern times, emphasizing social, cultural, economic, and political development.

**HIST 4323 U.S. Civil War and Reconstruction (3-0).** Explores the causes of the Civil War; the military, political, economic, and social aspects of the war; and the issues and results of Reconstruction.

**HIST 5301 Historiography (3-0).** A survey of the literature of history; Intensive studies of the style and philosophy of leading historians, the nature and extent of material for writing history. May be repeated in different topic. Successful completion of this course is required for the graduate degree in history.

**HIST 5302 Seminar in Texas History (3-0).** Topics to be announced. May be repeated for credit as topic varies. May be used to fulfill requisite nine semester credit hours in American History for the graduate student in history.

**HIST 5303 Seminar in Mexican History (3-0).** Topics to be announced. May be repeated for credit as topic varies. May be used to fulfill requisite nine semester credit hours in United States History or in non-United States History for the graduate student in history.

**HIST 5304 Seminar in World History (3-0).** Topics to be announced. May be repeated for credit as topic varies. May be used to fulfill requisite nine semester credit hours in non-United States History for the graduate student in History.

**HIST 5308 Seminar in European History (3-0).** Topics to be announced. May be repeated for credit as topic varies. May be used to fulfill requisite nine semester credit hours in non-United States History for the graduate student in History.

**HIST 5310 Seminar in American History (3-0).** Topics to be announced. May be repeated for credit as topic varies. Students must complete nine semester credit hours in American History for the graduate degree in History.

**HIST 5312 Historical Research and Writing Methods (3-0).** An individualized course with varying topics to be chosen by the instructor in consultation with the student. Successful completion of the course is required for all graduate students in History. The student may repeat this course in a different topic for additional credit.

**HIST 5313 Special Topics (3-0).** Selected topics in areas of history. May be repeated for credit when topic varies.

**HIST 6301 Thesis Proposal (0-6).** Satisfactory completion of this course will result in an acceptable prospectus presented to the Graduate Committee. The student will normally register for this course no earlier than the second semester of graduate study. The student will enroll each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made.

**HIST 6302 Thesis Proposal (0-6).** An oral examination in the defense of the thesis will be conducted by the thesis committee after the final draft has been completed, no less than fourteen days prior to graduation. The thesis committee must meet requirements of the College of Arts and Sciences. The committee will designate the student's achievement by awarding one of three grades: Pass with Distinction, Pass or Fail. Prerequisites: HIST 6301 and consent of the advisor required.

**HST 3302 Latin American History (3-0).** A history of Latin America, excluding Mexico, from the pre-Columbian period to the present. The course will emphasize political and social developments of the region.

**HST 3304 Europe: 1655-1870 (3-0).** The history of Europe from the late 17th century to the mid-19th century. The course will cover the constitutional conflict in England, the emergence of Russia as a European power, the intellectual ferment of the Enlightenment, the French Revolution and the eclipse of the Ancient Regime, and the beginning of the Industrial Revolution.

**HST 3305 Europe: 1870- to the Present (3-0).** This course stresses the impact of the Industrial Revolution on European society, the problems of modernization in traditional societies, growth of the 19th century "isms," the impact of World War I, the rise of totalitarianism, the effects of world-wide depression, World War II, and the problems of post-War reconstruction.

**HST 3308 History of Mexico (3-0).** A survey of Mexico from pre-Columbian times to the present.

**HST 3309 History of Texas (3-0).** A survey of the history of Texas from Native American groups to the present, stressing cultural, political, and social developments.

**HST 3310 History of Western America (3-0).** A study of the American West during the nineteenth century, emphasizing the successive frontiers, such as explorers, the mountain men, the cattlemen, the railroads, and the farmers.

**HST 3311 The Study of History (3-0).** An introduction to the techniques and the materials important to the study of history.

**HST 3313 The Mexican American in United States History (3-0).** Survey of the history of the Mexican Americans of the United States, relating their collective experience to Mexican and United States history. Emphasis will be placed on interactions between Mexican-Anglo-American cultures.

**HST 4302 American Diplomatic History (3-0).** A survey of or a thematic approach to American foreign relations. Themes might include United States relations with Mexico, Russia, the Middle East, to name a few. Emphasis will be on the 20th Century. Approaches will vary.

**HST 4314 US History: 1600-1783 (3-0).** A study of the English colonization of North America through the end of the American Revolution. The course focuses on social, political, and economics of the colonial period.

**HST 4315 Nineteenth Century US History (3-0).** A survey of or a thematic approach to 19th Century American history. Themes might include economic, cultural, political, or ethnic topics, to name a few. Approaches will vary.

**HST 4316 Readings and Research (3-0).** An individualized course with varying topics to be chosen by the instructor in consultation with the student. May be repeated once. Instructor permission is required.

**HST 4317 Special Topics (3-0).** Selected Topics in areas of history. May be repeated for credit when the topic varies. When U.S. History is the topic, the course may be used to meet U.S. History requirements.

**HST 4318 Modern Russia Since 1855 (3-0).** A history of Russia from the great reforms of the mid-19th Century to the present. Emphasis will be placed on the attempts at modernization of traditional Russian society, the growth of the revolutionary movement, the Bolshevik Revolution, the impact of Soviet Russia, and the collapse of the Soviet Union.

**HST 4319 Modern Britain Since 1760: Empire to Welfare State (3-0).** A history of Britain tracing the nation's emergence as a great power and relative decline in the modern world. The course will treat the revolutionary settlement in the 18th century, the oligarchic triumph, loss of the American colonies, struggle with France for world hegemony, evolution of parliamentary democracy, impact of industrialization and urban growth, imperial tensions, and the variety of reforms leading to the modern welfare state.

**HST 4320 Twentieth Century America (3-0).** A survey of or a thematic approach to 20th century American history. Themes might include economic, cultural, political, or ethnic topics to name a few. Approaches will vary.

**HST 5301 Ancient Civilization and Culture: Readings and Research (3-0).** This course examines ancient civilization and culture beginning with factors contributing to increasingly complex societies. Students examine civilizations from regions including Latin America, the Mediterranean, and Asia. Topics cover both broad trends and more focused cases in civilization development. Topics may vary.

**HST 5306 Latin American History: Readings and Research (3-0).** This course explores Latin American history over four major chronological eras: pre-colonial, colonial, independence, and modern. The course emphasizes major trends that shaped Latin American history and includes focus on localized topics which may vary.

**HST 5307 Modern Europe, 1750-Present: Readings and Research (3-0).** This course examines major developments in European history beginning with the industrial revolution and French revolution that laid much of the foundation for the modern era. Students explore topics such as the changing nature of colonialism, technological innovation, effects of the world wars, political revolutions, the Cold War, and the creation of the European Union in addition to focused instructive cases. Topics may vary.

**HST 5308 Seminar in European History (3-0).** Topics to be announced. May be repeated for credit as topic varies.

**HST 5311 United States History, 1600-1865: Readings and Research (3-0).** This course focuses on early United States history beginning with an examination of the general state of North American and Native American groups. Topics may include colonial development, pre-revolution events, challenges of the early republic, slavery, westward expansion, and factors contributing to the Civil War. Topics may vary.

**HST 5312 Readings and Research (3-0).** An individualized course with varying topics to be chosen by the instructor in consultation with the student.

**HST 5313 Special Topics (3-0).** Selected topics in areas of history. May be repeated for credit when topic varies.

**HST 5314 United States History, 1865-Present: Readings and Research (3-0).** This course focuses on United States history following the Civil War. Topics may include reconstruction, the development of the nation in the late 1800s, technological innovation, World War I, the Great Depression, World War II, the civil rights era, recent political and cultural developments. Research may focus on localized topics within the regional and national context.

## **INDUSTRIAL TECHNOLOGY (IT)**

**IT 1101 Freshman Seminar (1-0).** Seminar course designed to introduce students to faculty, facilities, and programs in Industrial Technology and to introduce students to college skills and resource essential for a successful college career.

**IT 1303 (ENGR 1304) Engineering Drawing I (2-4).** Use of American National Standards Institute symbols and conventions; techniques of freehand sketching; accepted styles and practices of lettering; and the relationship between points, lines and planes through multi-view drawing principles. Shape description through pictorial methods. Course fee: \$15

**IT 1305 Beginning Woodwork Technology (3-0).** Hand tools, hand tool processes, care and use of hand tools, basic machine operations and techniques, as related to the woodworking industry. Emphasis on the acquisition of basic skill and safety.

**IT 1306 Beginning Metalwork Technology (2-4).** A comprehensive course in industrial metals processes. Problems of pattern development, shearing, cutting, forming, bending, folding, and fabricating sheet steel as related to the sheet metal industry. Investigation of other industrial processes and techniques such as: industrial foundry processes; cold metal forming using bending, twisting, hammering, and combining techniques; forging and tempering techniques. Course fee: \$15

**IT 1308 Basic Electricity (2-4).** Principles of direct current and alternating current electricity. Applications of series, parallel, and series-parallel circuitry including Ohm's Law, Kerchhoff's Laws, batteries, meters, resistance, capacitance, inductance, magnetism and electromagnetism, soldering and assembly. Course fee: \$15

**IT 1309 Power Technology (2-4).** A foundation course, which looks into energy, power, and transportation technologies. Investigation into their evolution, development, production, relationships, and use. Course fee: \$15

**IT 2301 Special Topics (3-0).** The Special Topics course is used in case of Independent Studies or new course introduction. Course fee: \$15

**IT 2303 Introduction to Computer-Aided Design and Drafting (2-4).** Introduction to how commercial CAD systems operate. Computer graphics hardware and software. Applications of CAD graphics applications specifically in two dimensions. Course fee: \$15

**IT 2304 (ARTS 2356) Photography (2-4).** A foundation course in understanding the camera and the principles of its operation, light and film, darkroom techniques and photographic processes as they may be applied in industry using black and white films. Course fee: \$15

**IT 2305 Machine Wood Technology (2-4).** A comprehensive course in industrial woods processes. The course includes some hand processes but focuses on machine operations as required in mill work and the woodworking industry. Reading and analyzing drawings, selecting materials, completing a bill of materials, and project planning are integral components in the course. Course fee: \$15

**IT 2306 Machine Shop Technology (2-4).** A foundation course in the use of precision measuring instruments and metal working machines. Intended as an introduction to the machine shop practices of industry. Course fee: \$15

**IT 2307 Welding Technology (2-4).** A study of principles and correct use of the equipment, materials, and processes required for oxy-acetylene welding, cutting and brazing, and electric arc welding. Course fee: \$15

**IT 2309 Technology of Small Engine Maintenance and Repair (2-4).** The scientific, mechanical, and service concepts of two- cycle and four-cycle engines. Provides the student with the basic knowledge of these concepts and their application. Course fee: \$15

**IT 2313 Construction Graphics (2-4).** This course provides visualization, interpretation, and communication of graphical geometry in construction design and engineering; graphical analysis of problems; plan reading; computer aided design, and fundamentals of information modeling software; introduction to common quantitative tools in construction. Primarily focuses on residential and light commercial construction.

**IT 2314 Welding Technology II (2-4).** Advanced topics based on accepted welding codes. Training provided with various electrodes in shielded metal arc welding processes with open V-groove joints in all positions. Prerequisite: IT 2307. Course fee: \$15

**IT 2315 Solar Photovoltaics Systems (2-4).** Study of the history, technology, design and installation of solar photovoltaic systems, both on and off-grid. Course fee: \$15

**IT 2316 Ironworking I (2-4).** Forge operation and basic blacksmithing techniques including metal forming, forge welding, and steel tempering techniques used in industry. Course fee: \$15

**IT 2317 Ironworking II (2-4).** A continuation of the ironworking skills studied in IT 2316 including ornamental and tool making. Prerequisite: IT 2316 or permission of the instructor. Course fee: \$15

**IT 2355 Construction Estimating I (3-0).** A practical study course designed to provide the student with the knowledge and skill necessary for accurately estimating required building material cost for construction projects. Included will be the study of cost analysis and cost control, overhead costs and control, cost comparison and adjusted standard cost.



**IT 2365 Safety Management I (3-0).** The course introduces the student to the OSHA Act and industry standards for achieving a zero injury daily outcome on industrial and construction projects. The course will include Construction Industry Institute research safety best practices, interactive activities involving safety culture, leadership techniques; behavior based safety, industrial hygiene, environmental concerns as well as industrial safety analysis techniques. Students will be introduced to OSHA regulations and industry practices related to creating and maintaining safe working environments. Students will be eligible to earn OSHA 10 -hour safety certification.

**IT 3301 Special Topics (3-0).** A course covering various topics in the field of Industrial Technology. May be repeated for credit when the topic varies. Course fee: \$15

**IT 3303 Architectural Drafting and Home Planning (2-4).** Architectural drafting with emphasis on the principles of good design and planning the small home. Time is spent on architectural details, materials and methods of construction, energy conservation practices, the use of symbols, lettering, and building standards of the American Institute of Architects. Course fee: \$15

**IT 3309 Construction Project Management I (3-0).** This course will provide an introduction to construction project management covering concepts of project selection, estimating, bidding, scheduling, subcontracting practices, cost controls, project documentation, construction bonds, insurance, payments and the elements of project close out. It will also provide for the development of professional communication skills through prepared multi-media presentations.

**IT 3312 Building Systems (3-0).** This course introduces students to the design, operation, materials and installation methods of mechanical, electrical and plumbing systems in construction. Students will be introduced to the basic design principles and components of mechanical and electrical systems. Students will perform simple calculations of cooling/heating loads/power demands, examine related building codes and standards, and understand selected installation methods for basic mechanical and electrical systems.

**IT 3316 Advanced Machine Metalwork Technology (2-4).** Modern methods, techniques, and materials of the metal working industry. Special emphasis is placed upon advanced lathe and milling operations. Prerequisite: IT 2306 or equivalent or special permission. Course fee: \$15

**IT 3319 General Automotive Maintenance and Repair (2-4).** General automotive maintenance and repair is designed to enable students to understand and maintain automobiles.

### **IT 3322 Plastics Technology**

**IT 3323 Three Dimensional Computer Graphics (2-4).** An advanced course in computer aided drafting and design. Focus is on 3D design including work with solids and materials rendering. Prerequisite: IT 2303 or special permission. Course fee: \$15

**IT 3324 Construction Materials (3-0).** This course introduces students to the basic building materials and systems used in construction buildings, bridges, and infrastructure projects. Students will develop a basic understanding of building materials, their uses and application. It offers a basic understanding of the use of common materials used in systems such as foundations, structural framing/skeleton, building envelopes, and finishes. Namely, it introduces students to proper terminology and usage of wood, steel, and concrete materials and selected manufactured components.



**IT 3325 Methods and Techniques of Construction (2-4).** Methods, techniques and processes in the construction industry. Emphasis on practical application and the acquisition of skills in standard residential construction practices. Course fee: \$15

**IT 3326 Pattern Making and Foundry (2-4).** Advanced foundry and pattern making techniques with emphasis on molding, materials and equipment, core making, construction of various types of patterns, casting non-ferrous metals, production methods, and quality control. Prerequisite: IT 2305 or equivalent. Course fee: \$15

**IT 3354 Studio Photography (2-4).** Advanced study in photography. Emphasis is on studio lighting techniques, studio equipment, posing, and composing. Time is spent on corrective techniques and advanced processing and finishing techniques. Prerequisite: IT 2304 or equivalent. Course fee: \$15

**IT 3355 Construction Estimating II (3-0).** This course introduces students to the skills and tools necessary to prepare formal bids for construction projects. It focuses on pricing, indirect costs, bid analysis and use of computer aided software. The course addresses the bidding procedure from receipt of bid documents through work breakdown, work quantification, pricing and bid submittal for lump sum and unit price bids, and preparation of project proposals. Prerequisites: IT 2355

**IT 4301 Organization of Industrial Processing (3-0).** A course designed to acquaint students with production planning and research from design through marketing for industrial products. Course fee: \$15

**IT 4303 Architectural Working Drawings and Specifications (2-4).** Emphasis is on developing complete plans, schedules, and specifications for common construction. Attention will be given to residential, light commercial, structural specifications, and an introduction to computer applications in architecture. Course fee: \$15

**IT 4305 Special Processes in Wood Technology (2-4).** Modern wood technology, wood lamination, the application of plastic laminates, advanced lathe operations, advanced gluing and decorating techniques, advanced finishing processes, techniques of bending and special designs. Course fee: \$15

**IT 4306 Machine Design and Fabrication (2-4).** A look at how industrial machines are designed. Time is spent designing and building an industrial or production machine. Prerequisite: IT 2306 and/or 3316 or special permission. Course fee: \$15

**IT 4307 Advanced Welding Technology (2-4).** Advanced theory and practical application of knowledge in the area of welding. Prerequisite: IT 2307 or special permission. Course fee: \$15

**IT 4309 Construction Project Management II (3-0).** This course will serve as capstone course focusing on construction project management covering concepts of project selection, estimating, bidding, scheduling, subcontracting practices, cost controls, project documentation, construction bonds, insurance, payments and the elements of project close out. Students will also be introduced to the field of program management. This course provides the opportunity to review and integrate skills and knowledge taught in the entire program. It provides an exercise in which the students develop a formal written proposal and present their proposal to a panel of industry professionals. It will also provide for the development of professional communication skills through prepared multi-media presentations. Prerequisites: IT 3309

**IT 4310 Building Information Modeling for Construction (3-0).** This course will provide an introduction to building information modeling and the integrated project delivery method, productivity measurement, digital modeling, and construction process modeling for construction scheduling.

**IT 4311 Special Problems in Industrial Technology (3-0).** Individual study in a selected area of industrial technology. May be repeated for credit when the topic varies based on and individual program requirements. Course fee: \$15

**IT 4313 Construction Project Controls (3-0).** This course is designed to provide the student an introduction to construction related financial documents. Emphasis is placed on creating schedule of values, labor and operations cost reports, income statements, balance sheets and construction budgets; Students are also introduced to the techniques required to effectively monitor the financial aspects of a construction project. The students will have the opportunity to demonstrate their abilities and knowledge while learning many of the vital elements and challenges that projects teams face in the development and execution of a construction project, while also learning of the processes and systems available to them from pre-construction to closeout.

**IT 4319 Construction Planning and Scheduling (3-0).** This is a study course in construction planning and scheduling using the critical path method of scheduling. The course addresses the development and use of bar charts, CPM network diagrams, CPM calculations, and other selected topics such as resource leveling, network crashing, and earned value management. Specifically the course address the development of parameter cost estimates for activities that relate to the construction of a building project; work packages sequenced, planned and leveled to develop a working project execution document; development of procedures to monitor actual field progress. Also studied are methods of efficient job control and sensible scheduling of employees, machines, materials, and money on a construction job.

**IT 4329 Facility Design and Management (3-0).** This course provides a basic understanding the concepts, science, and strategic decision processes associated with locating and designing facilities. Students will learn how facility design can enhance customer satisfaction, and the methods to effectively utilize people, equipment, space and energy in facilities. Additionally, students will learn how facility design can reduce costs and grow supply chain profitability, and to identify safety hazards in facilities.

## **INTERNATIONAL BUSINESS (IBUS)**

**IBUS 5313 Global Management (3-0).** The course establishes the economic and organizational context in which corporate strategic decisions take place. This course extends the discussion internationally, by considering the essential differences between domestic and international competition, fundamental European, U.S., and Japanese principles of formulating strategy and the growing reliance on global strategic alliances. New forms of doing business internationally are discussed, emphasizing the process of building new foundations for acquiring competitive advantage on global scale. In particular, mechanisms leading to the creation of an information and knowledge based global company are shown and examined.

## **JOURNALISM (JOUR)**

**JOUR 1102 Journalism Laboratory (0-2).** Practical application of newspaper reporting and writing. (May be repeated twice). Prerequisite: Permission of the instructor

**JOUR 2101 Journalism Laboratory (0-2).** Practical application of newspaper editorial desk work. Prerequisite: Permission of the instructor

**JOUR 2302 Feature and Editorial Writing (3-0).** To provide a basic but comprehensive exposure to the aspects of feature writing and to provide students with the opportunity to improve their writing and interviewing skills through active participation. Course will include interviews with guest speakers who will both lecture and be interviewed for feature stories. Student stories may be selected for publication in The Skyline and other media outlets. The course is intended to stimulate student interest in writing for Sul Ross student publications, including The Skyline student newspaper and The Brand yearbook.

**JOUR 2311 (COMM 2311) News Gathering and Writing I (3-0).** Writing for news media; clarity in use of language, style and punctuation; sentence and paragraph structure and organization of stories; credibility of information and new judgment; basic methods of researching and writing.

**JOUR 3301 Student Publications Workshop (1-4).** This course is designed for students interested in applying basic journalism knowledge and skills to photojournalism, yearbook, or literary magazine production and/or newspaper production. Prerequisite: Permission of the instructor. May be repeated for credit but not more than once for credit toward Communication major.

**JOUR 3302 Layout and Design (3-0).** Various programs such as Photoshop, Illustrator, and InDesign will be explored and applied for use in web pages, newspaper and magazine publication, and e-publishing.

## **KINESIOLOGY (KES)**

**KES 1151 Racquet Sports (1-2).** The activity course is designed to teach the basic rules, regulations and skills of several racket sports such as tennis, racquetball, badminton and more. Application to lifespan health and sport will be examined. No experience required. Equipment will be provided.

**KES 1152 Cardio Fitness (1-2).** This activity course is designed to enhance overall health & fitness by increasing cardiovascular endurance, muscular strength & endurance, and improve body composition. Students are encouraged to refrain from a sedentary lifestyle. Activities include walking, running, hiking, cycling, indoor rowing, and other aerobic activities. Open to all ages. Equipment provided.

**KES 1153 Lifeguarding (1-2).** This course is designed to meet American Red Cross (ARC) requirements related to lifeguarding and basic water safety skills. Upon successful completion of the course, the student will be awarded the American Red Cross Lifeguard Training certificate and CPR/AED/First Aid certification for Lifeguards. An additional fee is required to cover ARC textbook, ARC ancillary materials, and ARC certification cards. Basic swim skills are required. Prerequisite: Must be 15+ years of age, able to swim 500 yards, able to retrieve an object from under 10 feet of water, and able to tread water for 2 minutes without the use of the hands.

**KES 1154 Disc Golf (1-2).** This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Tournament and match play formats will also be introduced. NOTE: Basic equipment will be provided. Open to all levels.

**KES 1155 Group Fitness (1-2).** This activity course will present a variety of group fitness classes to promote overall health & wellness in a motivating group setting. Group fitness classes such as indoor cycling, yoga, core, mobility and HIIT training, offer community, energy and motivation to create a transformative experience and deliver fitness results. Open to all ages. No equipment necessary.

**KES 1157 Outdoor Pursuits (1-2).** Outdoor resources and adventure activities are utilized as opportunities for experiential learning. Activities can include hiking, backpacking, biking, canoeing, kayaking, stand-up paddling, outdoor cooking, orienteering, wilderness safety and first aid. Equipment provided. Open to all levels.

**KES 1158 Swimming (1-2).** Basic and intermediate swimming techniques will be taught and practiced in the pool. Basic water safety procedures and the development of health-related fitness through swimming are examined. Prerequisites: Must be 15+ years of age, able to swim 50 yards and tread water (or float) for 1 minute.

**KES 1252 Cardio Fitness (2-2).** This course is designed to enhance overall health & fitness by increasing cardiovascular endurance, muscular strength & endurance, and improve body composition. Students are encouraged to refrain from a sedentary lifestyle. Activities include walking, indoor cycling, indoor rowing, and other aerobic activities.

**KES 1253 Lifeguarding (2-2).** This course is designed to meet American Red Cross (ARC) requirements related to lifeguarding and basic water safety skills. Upon successful completion of the course, this student will be awarded the American Red Cross Lifeguard Training certificate and CPR/AED/First Aid certification for Lifeguards. An additional fee is required to cover ARC ancillary materials, and ARC certification cards. Basic swim skills are required. Prerequisite: Must be 15+ years of age, able to swim 500 yards, able to retrieve an object from under 10 feet of water, and able to tread water for 2 minutes without the use of the hands.

**KES 1254 Disc Golf (2-2).** This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Tournament and match play formats will also be introduced. NOTE: Basic equipment will be provided.

**KES 1255 Fitness Walking & Running (2-2).** The course is designed for students who are interested in inspirational exercise, goal setting, and personal improvement through social & competitive walking and/or running. The course will begin with low intensity, short distance training before progressing a more aggressive training scheme. The course will cover proper walking & running mechanics, types of training (5K, 10K, Triathlon Runs), weather conditions, and the benefits of cardiovascular training. NOTE: Students will be required to register and complete two events (5K, 10K, Color Run, Sprint Triathlon, etc.). The entry fee for each event and transportation to/from the events will be the responsibility of the student.

**KES 1310 Essentials of Public Health (3-0).** The course will cover basic public health functions and principles as well as historical context, the core disciplines of public health, essential functions that every public health system should apply, and health communications.

**KES 1350 Sports Officiating (3-0).** This course includes the study of the rules, interpretations, and the mechanics of officiating. The course is designed to develop the knowledge and skills required in the officiating of football, basketball, baseball/softball, soccer, tennis, track and field, volleyball, and other interscholastic sports. Students will be required to assist in a variety of officiating activities outside the formal classroom. Practice officiating outside the classroom will be expected. Certification is not required but recommended.

**KES 2303 Nutrition (3-0).** Principles of nutrition including roles of nutrients, psychosocial aspects of eating, nutritional issues at various stages in life; developing diet plans, computing energy consumption and energy expenditures.

**KES 2311 Recreation and Leisure Services (3-0).** Introduction to recreation, includes brief historical backgrounds, professional opportunities, present status, past and present leaders. Role of leisure time in our social structure, professional responsibility, familiarization with current issues and trends, and professional literature. Lecture and field trips.

**KES 2314 Essentials of Health Behavior and Health Promotion (3-0).** This course focuses on how to address health issues facing communities by making changes at the individual, community, organizational, and governmental levels. Students will examine methods and theories to promote healthful changes using real-life examples. Specifically, the course will cover individual change theories, community development strategies. Diffusion of innovation theory, and media advocacy strategies.

**KES 2320 Foundations of Adapted Physical Education and Recreation (3-0).** The course is designed for preservice physical education, elementary education, and special education students. The course provides a broad range of experiences and assessment in order to help prepare students to work the special needs children in the future. The course aims to provide a background in adapted physical education theory as well as a laboratory experiences and practical timing through field experiences.

**KES 2330 Leisure and Outdoor Recreation (3-0).** An overview of the role of the natural world in recreation and leisure services. The course will focus on values of outdoor recreation, outdoor education, adventure recreation, environmental impact, and the role of government in the provision of outdoor recreation.

**KES 2340 Principles of Athletic Coaching (3-0).** The course is designed to present foundational knowledge essential for coaching any level athlete in any sport. Emphasis is on a comprehensive approach to the foundations and theories including development of a coaching philosophy, determining coaches objectives, coaching for character, coaching diverse athletes, motivational techniques, as well as, principles of teaching, physical training, and management.

**KES 3302 Health and Aging (3-0).** Health concerns and quality of life during the aging process, ageism, demographics, ethnicity, research on aging, economics, health status, nutrition, fitness, health care in the 21<sup>st</sup> century, and death and dying.

**KES 3303 Care and Prevention of Athletic Injuries (3-0).** Injury prevention, treatment and rehabilitation techniques in sports.

**KES 3305 Physiology of Exercise (3-0).** Physiological responses of the human body during various levels/intensities of physical activity and exercise.



**KES 3306 Motor Learning and Development through the Lifespan (3-0).** Acquisition and performance of movement behaviors including generalized patterns and specific skills for sport activities; how individuals learn movement skills' interaction with cognitive, effective, and psychomotor learning domains, application of learning theories to physical education, physical therapy, and athletics.

**KES 3313 Kinesiology and Biomechanics (3-0).** This course pertains to the mechanics of human movement during physical activity and exercise; applications of fundamental physics to anatomical structures and motion and analysis of musculoskeletal structures that influence human movement.

**KES 3316 River Recreation and Water Craft Safety (2-2).** Acquiring an understanding and application of teaching basic paddling skills of water crafts (river board, kayaks, rafts, canoes, inflatables, etc.) Additional content includes: aspects of safety, river policy, history, culture, careers/guiding, equipment maintenance/storage, river camping and leadership. Field days required (3-5 days).

**KES 3318 Mountain Recreation and Safety (2-2).** This course will teach fundamentals of back country camping, orienteering, and basic rock climbing including equipment, climbing techniques, knots, belaying, and rappelling; emphasis on skills development, risk management, and leadership. This course will follow and promote industry safety standards and teach best practices. Instruction requires three to five full days of practical field application for hands-on experience.

**KES 3321 Recreation Administration (3-0).** Analyzes the internal organization of a recreation department dealing with finances and accounting records and reports, publicity and public relations, state and federal legislation staff organization coordination, coordination of community resources.

**KES 3330 Sustainable Tourism & Commercial Recreation (3-0).** Course will analyze commercial recreation; economics, marketing, and financing commercial recreation endeavors; and assemble the various opportunities available in the commercial and private sector.

**KES 4303 Fitness Testing and Exercise Prescription (3-0).** Evaluation of health and fitness levels of athletic and nonathletic populations; creating effective exercise programs for various populations.

**KES 4310 Program Planning and Evaluation (3-0).** This course will emphasize a systems approach in the planning of effective health services. Students will develop an evidence-based program that will include effective and culturally appropriate implementation strategies using state or national health objectives as a framework for planning.

**KES 4312 Health Promotion at the Workplace (3-0). QEP MAPPED COURSE** Needs assessment; program development, implementation, and evaluation in corporate and private business settings; developing environmental and social support for healthy behaviors with the business community.

**KES 4313 Legal and Ethical Issues in Exercise and Sport Science (3-0).** This course will cover basic legal principles, terminology, risk-management approaches, application of legal principles for the protection of employees and employers in kinesiology- related fields, and contemporary ethical issues.

**KES 4316 Exercise Programming for Special Populations (3-0).** Creating exercise programs for populations of people having health concerns in the 21<sup>st</sup> century; programming application to coronary heart disease, diabetes, asthma, obesity, pregnancy, and physical and mental disabilities.

**KES 4360 Practicum in Kinesiology (0-3). QEP MAPPED COURSE** Supervised internship with selected agencies and organizations such as intramural sports, city recreation departments, YMCAs and YWCAs, Boys' Clubs, Girl and Boy Scouts, rehabilitation centers, and similar agencies and organizations. Field experience fee \$75. Prerequisite: Senior Classification and approval of department head.

**KES 4361 Special Topics in Kinesiology (3-0).** Selected topics in Kinesiology. The course may be repeated for different topics. Offered when needed. Permission of instructor.

**KES 4362 Senior Capstone in Exercise and Sport Science (3-0).** Completion and presentation of a research project is required. Additionally, the research project must be submitted to a professional conference, publication, or the student must attempt an approved professional certification examination. Prerequisite: Senior standing

**KES 5301 Advanced Special Topics in Kinesiology (3-0).** Selected topics in Kinesiology. The course may be repeated for different topics. Offered when needed. Permission of instructor.

**KES 5305 Research Methods (3-0).** An introduction to the fundamental concepts of research design, measurement, statistical analysis and scientific inquiry as they apply to understanding and evaluating published research. Upon completion of this course, students should be informed about the relevance of published research to their own practice and research.

**KES 5307 Issues in Sports Law (3-0).** This course covers various individual and non-professional sports law issues and focuses on the regulation of interscholastic, intercollegiate, and Olympic sports. Topics covered include tort law, contract law, Title IX gender discrimination, the relationship between the college athlete and university, drug testing of amateur athletes, the regulatory authority of the NCAA, and the rules and regulations pertaining to "amateurism" and use of agents.

**KES 5312 Advanced Human Nutrition (3-0).** Dietary factors associated with chronic disease development are examined with an emphasis on heart disease, stroke, cancer, diabetes, osteoporosis, and neurodegenerative diseases. Students will access diets and provide alternative food choices to lower chronic disease risk. Acute and chronic exercise's effects on nutrient requirements metabolism and the ergogenic efficacy of dietary supplements receive substantial attention.

**KES 5313 Physiological Basis of Human Performance (3-0).** The purpose of this course is to prepare the student in the areas of exercise physiology. The goals of this course are to provide the student with an active learning experience that will increase their knowledge of (a) energy metabolism and nutrition, (b) aerobic and anaerobic principles of work and exercise, (c) body composition measurement themes in exercise science, (d) cardiorespiratory/renal responses to exercise, (e) muscular/neural responses to exercise, and (f) thermoregulation during exercise in differing environments. Historical and contemporary concepts of exercise physiology will be discussed to improve the student's understanding of the genesis and progression of exercise physiology throughout the twentieth century. This course will prepare the student for practical applications of exercise physiology.



**KES 5314 Diagnostic Test and Measurement in Exercise Science (3-0).** This course will provide students with the background in the appropriate design structures, both qualitative, for research projects. Within the different framework of experimental designs, an emphasis will be on how to collect and organize data, data clearing, statistical analysis, and the interpretation of data. At the conclusion of the course, the student should have identified and be comfortable applying the appropriate experimental design for the thesis/project.

**KES 5315 Group Dynamics (3-0).** An analysis of small-group structures and function with emphasis on leadership, membership, attitude and value formation, and role theory. 1. To provide the students with an analysis and understanding of small -group structure and function with emphasis on leadership, membership, attitude formation, value formation, and role theory. 2. To acquaint the students with basic methods of effective management and control of the group situation. 3. To provide practical application of small-group principles to simulated situations.

**KES 5316 Neurological Basis for Motor Learning and Control (3-0).** This course is designed to provide an understanding of psychological/physiological principles involved in motor learning, control, and performance in skill acquisition for school-age- children and adult populations.

**KES 5321 Leadership in Sport Administration (3-0).** A variety of leadership and management skills will be examined, including communication, problem solving, conflict management, group dynamics, and leadership theory. Practical application to sport and allied professions will be included.

**KES 5322 Strategic Management in Sport (3-0).** A study and application of management theories and practical application to sport administration. This course provides students with an opportunity to analyze organizational structure, examine current industry trends, and develop a strategic plan for a sport organization.

**KES 5323 Sport Finance and Sales (3-0).** Students learn financial concepts including financial planning and management, budgeting, the fundraising cycle, and explore the use of different strategies and techniques to maintain or expand sports operations, stadium/facility proposals, budgets, and bond referendums. In addition, a variety of revenue streams are discussed in detail. Students are exposed to a variety of different sales strategies and tactics that can be applied to the sport industry and are also exposed to the latest research and professional trends in the field.

**KES 5324 Applied Marketing in Sport (3-0).** His course covers the essentials of sport marketing which includes planning, promotions, operations, and market analysis. The fundamental principles used in the marketing of sport, products, events, and the importance of service quality will also be examined. Students also examine the latest research in the file and will interact with industry professionals.

**KES 5325 Event & Facility Management (3-0).** The course provides students with an opportunity to examine the practical application of the principles and theory related to event and facility planning, human resource and equipment organization, and execution of sport at these facilities. Site visits and interactions with local sport organizations are required.

**KES 5373 Health and Human Behavior (3-0).** This course explores the process and methods of scientific inquiry and interpretation of research findings in kinesiology. Students will gain familiarity with the major elements of research including literature review, quantitative and qualitative methodology, design, evaluation of research, statistical analysis, presentation of data, and ethical considerations. This course also provides an overview of statistics including descriptive and inferential statistics and one-way ANOVA. Students should have a basic understanding of conducting library and Internet information searches prior to taking this course.

**KES 5609 Advanced Practicum in Kinesiology (0-6).** A course which provides real world application of kinesiology in a public or private setting. Limited to students in good academic standing who have completed 24 sch. in a kinesiology master of science program and who meet sufficient GPA requirements. Prerequisite: Advisor approval required.

### **LIBERAL ARTS (LA)**

**LA 5101 Prospectus for Master's Project (0-1).** Students will prepare and present an acceptable prospectus to their committee which describes the project to be undertaken in LA 5301. The project must reflect or incorporate ideas, subject material, research, or creative work from the three disciplines selected for study. Students should enroll in this class after consulting with their advisor and/or committee and must complete the class before enrolling in LA 5301. Prerequisite: Permission of graduate committee.

**LA 5301 Master's Project (0-3).** Students will complete the interdisciplinary project proposed in LA 5101, submit it to their committee, and respond to questions from the committee in an oral interview/defense. The project may take the form of a creative production (such as an exhibit, performance, portfolio, or video); an extended paper or publishable article; an internship; or a practicum. Projects in other formats are acceptable if they have been approved by the student's committee. This course is to be taken as the final course for the Master of Arts in Liberal Arts program. Prerequisite: Permission of graduate committee and successful completion of LA 5101

### **MANAGEMENT (MGMT/MGT)**

**MGMT 3306 Principles of Management (3-0).** Introduction to basic management philosophy and decision-making processes; study of principles involved in the functions of planning, organizing, directing, and controlling.

**MGMT 3322 Management Communication (3-0). QEP MAPPED COURSE** The application of communication models and principals within organizations including leadership, coordination, control, and teams.

**MGMT 4314 Management of Small Business Enterprise (3-0).** A problems course involving the application of principles of management to small-scale enterprise situations, emphasizing the practical aspects of management and fundamental business practices. Each student will analyze a problem in a going concern and prepare a written report.

**MGMT 4318 Human Resource Management (3-0).** To provide working concepts of professional human resource management. This course reviews basic motivation theory, interpersonal relationships, and group dynamics as they apply to managing efforts to obtain personal and organizational goals. Objectives of the course include: developing greater student insight into personal leadership style; deeper appreciation for the complexities of personnel administration; and enlarged awareness of the effective utilization of human resource management. Prerequisite: MGMT 3306

**MGMT 4321 Organizational Behavior (3-0).** A study of individual and group dynamics applying the principles of industrial and social psychology in the commercial and industrial setting. Areas intensively examined are individual and group value systems, tensions, conflict, pressures and motivation sensitivity.

**MGMT 4340 International Logistics Management (3-0).** This course is designed to give students a working knowledge of the logistical challenges associated with international trade. With such a large number of American companies in retail and many other sectors of the economy importing many products from foreign countries such as China, India, Mexico, etc., it becomes essential that business students (future business practitioners) understand how those products arrive at their final destination. Prerequisite: ECON 2301

**MGMT 4345 International Management (3-0).** The course develops in students the basic skills required for the formulation and implementation of business operations in a global environment. Managing processes in multinational corporations is emphasized, with a detailed discussion on how basic managerial functions should be implemented in a global context. The course is a cross-cut through organizational design and management theory, settling those problems in international settings and showing the process of strategy crafting in global problems in international settings and showing the process of strategy crafting in global companies.

**MGMT 4350 Project Management (3-0).** Study of concepts and techniques for the management of various types of projects including product development, engineering, construction and science and technology projects. Students will develop planning skills including scope definition, scheduling, cost-estimating and risk assessment. The course will also help in developing skill in support of project leadership, team building and communication.

**MGMT 5303 Management Policy (3-0).** An examination of the task of managing with a strategic focus utilizing the tools and techniques of strategic analysis as they affect both strategy formulation and implementation.

**MGMT 5304 Seminar in Management (3-0).** Careful study of the management process of planning, organizing, controlling, etc., based on extensive reading and case problem analysis. (MBA core course)

**MGMT 5307 Managing Organizational Change (3-0).** This course exposes students to the process of organizational change. It discusses why change happens and why it is important for management to look at change in a proactive manner in order to stay ahead of potential industry and market demands. One of the course major goals is to help students develop an awareness of the issues involved in managing change and help them realize that there is a variety of change approaches and not only a single “best” approach to change situations.

**MGT 3306 Principles of Management (3-0).** Introduction to basic management philosophy and decision-making processes; study of principles involved in the functions of planning, organizing, directing, and controlling.

**MGT 3361 Operations Management (3-0).** Current industrial practices, with emphasis upon plant location, layout of equipment, industrial purchasing, and the application of principles of scientific management to production. Prerequisites: MGT 3306 and GBA 3350.

**MGT 3363 Human Resource Management (3-0).** Study of the human resources tasks and duties managers perform including: determining the organizations human resource needs; compensation; evaluation; benefits, discipline; promotion; assignments; employee related legal matters, records, training, privacy; policy application; and orientation.

**MGT 3322 Management Communication (3-0). QEP MAPPED COURSE** The application of communication models and principals within organizations including leadership, coordination, control, and teams.

**MGT 4361 Organizational Behavior (3-0).** The study of inter-personal skills in organizations. The course provides the student with insights critical to management concerning individual processes, social dynamics, and organizational practices combined with knowledge of real work sensitivities, demands and practices.

**MGT 4362 Management of Small Business Enterprise (3-0).** This course offers a practical approach to planning, organizing, and running a small business. It explains how to achieve optimum benefits from the limited resources available to small firms, as well as how to plan for growth and succession in a business. It also explores arguments both for and against owning a small business. The focus is on the start-up and operation of small business. Through the creation of a business plan the student will examine the functions of business as they pertain to small business endeavors.

**MGT 5304 Seminar in Management (3-0).** The study of the management process of planning, organizing, controlling, etc, based on extensive reading and case problem analysis.

**MGT 5312 International Management (3-0).** A study of the objectives and strategies of international business with an emphasis on the economic analysis of international business strategy formulation.

## **MANAGEMENT INFORMATION SYSTEMS (MISY)**

**MISY 3320 Systems Analysis (3-0).** Overview of the system development life cycle. Emphasis is on current system documentation flows, data flows, data structures, file designs, input and output designs and program specifications. Discussion of information gathering and reporting activities and of the transition from analysis to design.

**MISY 3360 Business Data Communication Systems (3-0).** Characteristics of contemporary business data communication components, their configurations, and their impact on management information systems design. Topics include designing, managing, securing, and implementing business data communication networks, and their integration into management information systems. Exercises and assignments will use various data communication facilities.

**MISY 4310 Information Resource Management (3-0).** A course providing a broad overview of the information resource management function. The course emphasizes information systems management, with particular attention on planning, organizing and controlling user services, managing the computer information systems development process, and the fundamentals of EDP auditing.

**MISY 4350 Electronic Commerce (3-0).** Focuses on e-commerce from three perspectives: (1) customer-business; (2) business-business; and (3) intra- organization. The Internet, Intranet and Extranets, electronic data interchange (EDI), electronic payment systems, tax issues, and global policy will be investigated. Students will create or enhance a web page as part of the course requirements.

**MISY 4370 Special Topics in Management Information Systems (3-0).** The study of advanced concepts and techniques of management information systems. Content will vary according to the needs and interests of the students, and according to the latest state-of-the-art in computing.

## **MARKETING (MKT/MKTG)**

**MKT 3307 Principles of Marketing (3-0).** Studies the place of marketing in our economic structure; the present marketing structures and the formulation by management of marketing policies and procedures aimed at satisfying consumer needs.

**MKT 3371 Consumer Behavior (3-0).** Consumer motivation, perception, learning, group influences, and consumer decision processes.

**MKT 3372 Sales Management (3-0).** An analysis of the management skills needed to plan, organize and control a modern sales organization.

**MKT 4370 Marketing Research (3-0).** Techniques of marketing research, research design, analysis, and interpretation of marketing data, questionnaire design, and sampling methods. Prerequisites: MKT 3370

**MKT 4371 Retailing Management (3-0).** Principles and methods of modern retailing. Designed to aid students seeking a general knowledge of the retail field as well as those specializing in marketing.

**MKT 5303 International Marketing (3-0).** An advanced approach to developing marketing programs and strategies in the global environment. Exposure to the pervasiveness of global marketing competition.

**MKT 5305 Seminar in Marketing (3-0).** An advanced graduate course in marketing management and appropriate marketing program development.

**MKTG 3307 Principles of Marketing (3-0).** Studies the place of marketing in our economic structure; the present marketing structures and the formulating by management of marketing policies and procedures aimed at satisfying consumer needs.

**MKTG 3309 Foundations of Marketing (3-0).** An elective course in marketing designed to expand the choice for students who may desire to pursue an emphasis in the marketing area within the business administration program.

**MKTG 3317 Promotion (3-0).** Persuasive communication in marketing; elements of persuasion including personal selling, advertising, sales promotion, indirect promotion; management and coordination of the promotion program. Prerequisite: MKTG 3307

**MKTG 3318 Consumer Behavior (3-0).** Consumer application of fundamental processes of motivation, perception and learning; nature and influence of individual predisposition; group influences; consumer decision process. Prerequisite: MKTG 3307

**MKTG 3319 Marketing Research (3-0).** Emphasis on the techniques of marketing research, research design, questionnaire design, collection analysis, and interpretation of the data and the preparation of the research. Prerequisite: MKTG 3307

**MKTG 4310 Current Topics in Marketing (3-0).** An elective marketing course designed to expand students' basic knowledge and skills beyond the Principles of Marketing course. The course will focus on readings and discussions addressing current topics in consumer marketing. May be repeated for credit when course topic changes.

**MKTG 4348 International Marketing (3-0).** The objective of this course is to expose students to the international marketing environment, which differs from the domestic marketing environment. Students will learn the basic requirements of introducing a product into a foreign market and all the challenges and opportunities related to most international markets especially the so called "emerging markets." The sensitive issue of culture in foreign markets will receive special emphasis. Prerequisite: MKTG 3307

**MKTG 4349 Marketing Communications (3-0).** An elective marketing course intended for students interested in expanding their marketing knowledge and skills beyond Principles of Marketing. Explores changes in technology, buyer behavior, economic cycles and industry performance that impact the ways in which organizations communicate with target markets. Prerequisite: MKTG 3307

**MKTG 5305 Seminar in Marketing (3-0).** Analysis of policy formulation by marketing management with special emphasis on the influence of marketing institutions, market structure, governmental regulation and fluctuation in population and national income. (MBA Core Course) Prerequisite: MATH 2413 or permission of instructor.

**MKTG 5306 Brand Management (3-0).** An elective course for MBA students interested in expanding their marketing knowledge/skills beyond what they learned in the core MBA marketing course, MKTG 5305, Seminar in Marketing. Students will learn, both from an academic and practitioner point-of-view, how brands reduce consumer risk and simplify their purchasing decisions. MBA Course. MBA Only

## **MATHEMATICS (MATH/MTH)**

**MATH B100 BASE Math Review (0-0).** This course is a six-hour review of MATH 0200 BASE Math Skills.

**MATH 0100 MATH 0300 Review (0-0).** This course is a six-hour review of MATH 0300.

**MATH 0101 MATH 0301 Review (0-0).** This course is a six-hour review of MATH 0301.



**MATH 0114 MATH 0314 Review (0-0).** Students will review the course material for MATH 0314. They will then take the common course final. Passing the common course final for MATH 0314 allows students pursuing a B.S. degree to take MATH 1314 as a stand-alone course.

**MATH 0132 MATH 0332 Review (0-0).** Students will review the course material for MATH 0332. They will then take the common course final. Passing the common course final for MATH 0332 allows students pursuing a B.A. degree to take MATH 1332 as a stand-alone course. Credit in this course cannot be used to satisfy requirements for any degree.

**MATH 0142 MATH 0342 Review (0-0).** Students will review the course material for MATH 0342. They will then take the common course final. Passing the common course final for MATH 0342 allows students pursuing a B.S. degree to take MATH 1342 as a stand-alone course before going on to take MATH0314/MATH 1314. Credit in this course cannot be used to satisfy requirements for any degree.

**MATH 0200 BASE Math Skills (2-0).** This course is designed for students whose score on an approved assessment instrument does not meet the minimum developmental education requirement. In the course, students will develop basic mathematics skills. Topics included in the course are operations with whole numbers, integers, fractions, decimals and percents; univariate linear equations, including multi-step equations and proportions and verbal and written communication involving mathematical language, symbols and notation. Credit in the course cannot be used to satisfy requirements for any degree.

**MATH 0300 Introductory Algebra (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the mathematics portion of the assessment. Topics included in this course are algebraic operations on real numbers, the solving of equations and inequalities, basic operations with polynomials, simple graphing techniques, critical thinking skills, and college readiness skills. Credit in this course cannot be used to satisfy requirements for any degree. Students must earn a grade of C or better to progress to the next level math course.

**MATH 0314 Introduction to College Algebra (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the mathematics portion of the assessment. Students who wish to earn a B.S. degree take MATH 1314. Topics included in the course are operations with polynomial expressions; methods for solving quadratic equations and inequalities; applications of quadratic equations; rectangular coordinate system and graphs of quadratic equations. Credit in this course cannot be used to satisfy requirements for any degree. Prerequisites: "C" or better in MATH 0332 or MATH 0342 OR satisfactory score on assessment

**MATH 0332 Introductory Contemporary Math (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the mathematics portion of the assessment. Topics included in the course are problem-solving, counting, the real number system, sets, geometry, solutions of linear and quadratic equations, elementary probability, financial math, the mathematics of voting and fair decision. Credit in this course cannot be used to satisfy requirements for any degree.



**MATH 0342 Introductory Statistical Methods (3-0).** This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the mathematics portions of the assessment. Students who wish to earn a B.S. degree take MATH 1342. Topics included in the course are Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis-testing. Credit in this course cannot be used to satisfy requirements for any degree.

**MATH 1314 (MATH 1314) College Algebra (3-0).** In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

**MATH 1316 (MATH 1316) Plane Trigonometry (3-0).** In-depth study and application of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Prerequisite: Math 1314 or consent of instructor.

**MATH 1332 (MATH 1332) Contemporary Mathematics (3-0).** This course is an introduction to a selection of college-level math topics. This course typically covers topics selected from the following: problem-solving, counting, the real number system, sets, geometry, solutions of linear and quadratic equations, elementary probability, financial math, the mathematics of voting, and fair division.

**MATH 1342 (MATH 1342) Elementary Statistical Methods (3-0).** Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis-testing. Use of appropriate technology is recommended.

**MATH 2303 Individual Studies (3-0).** Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor.

**MATH 2306 Special Topics (3-0).** Discussion of selected topics in mathematics, at or above the level of college algebra, suitable for lower division students. The course may be repeated for different topics. Offered when needed. Prerequisite: Permission of instructor.

**MATH 2310 Foundations of Elementary Mathematics I (3-0).** First course in required mathematics content sequence for preservice elementary and middle school teachers. Topics include problem-solving techniques, reasoning, study of sets, systems of numeration, natural numbers, integers, number theory and rational numbers. Emphasis on problem-solving as a pedagogical tool with integration of manipulative-based explorations. Offered fall. Prerequisites: Satisfactory completion Math 1315 or Math 1342 with a grade of C or better; or equivalent advanced credit placement.

**MATH 2311 Foundations of Elementary Mathematics II (3-0).** Second course in the mathematics content sequence for preservice elementary and middle school teachers. Topics include: fraction operations, decimals, real numbers, ratio and proportion, percent, basic notions of geometry, measurement, and basic probability and statistics. Offered spring. Prerequisites: Satisfactory completion of Math 2310 with a grade of C or better.

**MATH 2318 Linear Algebra (3-0).** Systems of linear equations, matrices, determinants, vector spaces, quadratic forms, linear transformations, eigenvalues and eigenvectors, and applications in science and engineering. Prerequisite: MATH 1316 or MATH 2413.

**MATH 2403 Individual Studies (3-2).** In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor.

**MATH 2413 (MATH 2413) Calculus I (3-2).** Topics include limits and continuity, the derivative, techniques for differentiation of algebraic, logarithmic, exponential and trigonometric functions applications of the derivative and anti-differentiation. Offered fall. Prerequisite: Math 1314 and Math 1316 or consent of instructor.

**MATH 2414 (MATH 2414) Calculus II (3-2).** Topics include the definite integral and its applications, techniques of integration, improper integrals, Taylor's formula and infinite series. Offered spring. Prerequisite: Math 2413

**MATH 3301 Geometry (3-0).** Modern formal development of Euclidean geometry with congruences and constructions. Introduction to other geometries as time permits. Prerequisite: MATH 2311/MTH 3309, MATH 2413, or permission of instructor.

**MATH 3303 Individual Studies (3-0).** Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor.

**MATH 3305 History of Mathematics (3-0).** Biographies of mathematicians along with an exploration of the chronological development of important ideas in mathematics. Prerequisite: MATH 2413.

**MATH 3306 Special Topics (3-0).** Discussion of selected topics in mathematics. Course may be repeated as topics vary. Prerequisite: permission of instructor.

**MATH 3307 Differential Equations (3-0).** First-order differential equations, linear differential equations of higher order, systems of linear differential equations, and applications. Prerequisite: MATH 2414.

**MATH 3330 Number Theory and Cryptography (3-0).** This is an introductory course in basic number theory via its important applications in modern cryptography. Topics include divisibility and the Euclidean algorithm, congruences, finite fields, quadratic residues, enciphering matrices, public key cryptography, pseudoprimes, and factoring techniques. Offered fall or spring when needed. Prerequisite: Math 2414.

**MATH 3340 Foundations of Higher Mathematics (3-0).** Organization and structure of mathematical thought. Writing and evaluating proofs. Topics include propositional logic, set theory, functions, sequences, relations, number theory, and graph theory. Prerequisite: MATH 2311 / MTH 3309 or MATH 2414.

**MATH 3403 Individual Studies (3-2).** In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor.

**MATH 3415 Calculus III (3-2).** Calculus of functions of several variables, including partial derivatives, multiple integrals, and vector calculus. Prerequisite: MATH 2414 with a C or better.

**MATH 4301 Modern Abstract Algebra I (3-0).** Congruence classes, group theory and its applications to number theory and geometry, introduction to rings, integral domains, and fields. Prerequisite: MATH 2318 and MATH 3301/MTH 3301 or permission of instructor.

**MATH 4303 Individual Studies (3-0).** Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor.

**MATH 4320 Real Analysis (3-0).** Topology of the real line, sequences, series, continuity, and differentiation. Prerequisite: MATH 2414.

**MATH 4340 Mathematical Statistics (3-0).** Classical probability theory, discrete and continuous random variables, distribution functions, expectation, law of large numbers, central limit theorem, applications. Offered when needed. Prerequisite: Math 2414

**MATH 4360 Complex Variables I (3-0).** An introductory course covering functions of one complex variable. Topics will include: the algebra of complex numbers, geometry in the complex plane, polar representation of complex numbers, analytic functions, mappings, continuity, differentiability, Cauchy-Riemann equations, elementary functions of a complex variable, contour integrals and the Cauchy integral formula. Rotated with 4320 and 4330. Prerequisite: Math 2415

**MATH 4390 Senior Project (3-0). QEP MAPPED COURSE** Directed individual studies in a mathematical topic of interest to the student. Emphasis on written and oral communication. Prerequisite: Completion of any 4000-level course with a C or better or permission of instructor.

**MATH 5301 Special Topics in Mathematics (3-0).** Selected topics in theoretical and applied mathematics. The course may be repeated for different topics. Offered when needed. Prerequisites: Permission of instructor.

**MATH 5302 Topics in Mathematics Education (3-0).** Selected topics in mathematics and mathematics education which relate to the teaching of K-12 mathematics. The course may be repeated for different topics. Offered when needed. Prerequisite: Permission of instructor.

**MATH 5303 Individual Studies (3-0).** Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor.

**MTH 3301 Geometry (3-0).** Modern formal development of Euclidean geometry with congruences and constructions. Introduction to other geometries as time permits. Prerequisite: MATH 2311/MTH 3309, MATH 2413, or permission of instructor.

**MTH 3302 Probability and Statistics I (3-0).** Descriptive statistics, probability, random variables and their distributions, estimation, and hypothesis testing. Prerequisite: MATH 1314 or permission of instructor.

**MTH 3304 Linear Algebra (3-0).** Systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications, and numerical methods. Prerequisite: MATH 2413

**MTH 3305 History of Mathematics (3-0).** Biographies of mathematicians along with an exploration of the chronological development of important ideas in mathematics. Prerequisite: MATH 2413.

**MTH 3306 Special Topics (3-0).** Discussion of selected topics in mathematics. Course may be repeated as topics vary. Prerequisite: permission of instructor.

**MTH 3307 Differential Equations (3-0).** First-order differential equations, linear differential equations of higher order, systems of linear differential equations, and applications. Prerequisite: MATH 2414.

**MTH 3308 Survey Of Basic Mathematical Theory I (3-0).** Numeration systems, foundations of arithmetic, fractions and decimal numbers, measurement concepts, and problem solving. Elementary Education majors only. Prerequisite: MATH 1314

**MTH 3309 Survey Of Basic Mathematical Theory II (3-0).** Geometric concepts, probability, statistics, estimation, problem solving, and other related topics. Elementary Education majors only. Prerequisite: MTH 3308

**MTH 3311 Survey of Basic Mathematical Theory III (3-0).** Further study in mathematics including probability measurement and geometry-geometric figures, networks, transformations, symmetries, congruence, similarity and construction. Elementary Education only. Prerequisite: MTH 3309

**MTH 3340 Foundations of higher Math (3-0).** Organization and structure of mathematical thought. Writing and evaluating proofs. Topics include propositional logic, set theory, functions, sequences, relations, number theory, and graph theory. Prerequisite: MATH 2311 / MTH 3309 or MATH 2414.

**MTH 3415 Calculus III (3-0).** Calculus of functions of several variables, including partial derivatives, multiple integrals, and vector calculus. Prerequisite: MATH 2414 with a C or better.

**MTH 4301 Modern Abstract Algebra (3-0).** Congruence classes, group theory and its applications to number theory and geometry, introduction to rings, integral domains, and fields. Prerequisite: MATH 2318 and MATH 3301/MTH 3301 or permission of instructor.

**MTH 4304 Probability And Statistics II (3-0).** Linear regression and correlation, multiple regression, analysis of variance, analysis of enumerative data. Prerequisite: MTH 3302

**MTH 4320 Real Analysis (3-0).** Topology of the real line, sequences, series, continuity, and differentiation. Prerequisite: MATH 2414.

**MTH 4390 Senior Project (3-0).** Directed individual studies in a mathematical topic of interest to the student. Emphasis on written and oral communication. Prerequisite: Completion of any 4000-level course with a C or better or permission of instructor.

**MTH 5301 Special Topics in Mathematics (3-0).** Selected topics in theoretical and applied mathematics which are of particular interest to teachers of mathematics. The course may be repeated for different topics. Prerequisite: Baccalaureate degree and permission from the instructor.

**MTH 5303 Fourier Series and Orthogonal Functions (3-0).** Function spaces, orthogonal functions, Fourier series, Legendre polynomials, spherical harmonics, heat and temperature, waves and vibrations. Prerequisite: MTH 3303 and MTH 3304 or permission of the instructor.

**MTH 5305 Advanced Geometry (3-0).** Classical geometry from an advanced viewpoint, including Euclidean Geometry, axiomatic systems, constructability, regular polytopes, projective geometry and non-Euclidean geometry. Prerequisite: MTH 4301 or MTH 4307 or permission of the instructor.

**MTH 5307 Mathematics History (3-0).** Provides a survey of the history and development of mathematical thought from ancient to modern times including biographical perspectives. Prerequisite: MTH 5305 or permission of the instructor.

**MTH 5309 Advanced Algebra (3-0).** Groups, rings, integral domains and fields, polynomial rings, Galois Theory and related topics. Prerequisite: MTH 4301 or permission of the instructor.

**MTH 5311 Real Analysis (3-0).** Metric spaces, Lebesgue measure, integration, differentiation, function spaces and harmonic analysis. Prerequisite: MTH 4307 or permission of the instructor.

### **MEXICAN AMERICAN STUDIES (MAS)**

**MAS 2301 (HUMA 1305) Introduction to Mexican American Studies (3-0).** Introduction to Mexican American culture, history, literature, music, world view, and place in both Mexican and American societies and nations.

**MAS 2302 Readings and Research (0-3).** Selected readings and research projects to be offered as individual study to meet student's needs. May be repeated for credit.

**MAS 3309 Language on the Border (3-0).** This course looks at language along the U.S.-Mexican border from linguistic, social and political perspectives. Topics will include bilingualism, bilingual education, cultural identity, language varieties, and code-switching.

**MAS 3310 Special Topics (3-0).** Selected topics in the area of Mexican American Studies. May be repeated for credit when the topic varies.

**MAS 3311 Folklore and Culture on the Texas-Mexican Border (3-0).** Students are to become familiar with Mexican Revolution's history. Students will review the origin and history of Mexican Corridos. This course will be taught in English.

**MAS 4309 Political Issues in Mexican American Studies (3-0).** Selected readings or research projects to be offered as individual study to meet student need. May be repeated for credit when the topic varies.

### **MUSIC (MUS)**

**MUS 1111 Individual Instruction (1/2-6).** (May be repeated for credit.) One thirty-minute lesson and not less than 5 hours practice per week. Enrollment is open to music majors and minors, and all interested students with the permission of the instructor. Private lesson fee: \$25  
01 Piano, 02 Voice, 03 Flute, 04 Oboe, 05 Clarinet, 06 Saxophone, 07 Bassoon, 08 French Horn, 09 Trumpet, 10 Trombone, 11 Euphonium, 12 Tubas, 13 Percussion, 14 Guitar, 15 Violin Family, 16 Other, 17 Organ

**MUS 1112 Vocal Ensemble (0-3).** (May be repeated for credit.)  
01 – University Chorus – This group prepares and presents a major composite musical work each semester. There are usually two performances per semester. Enrollment is open to all students, regardless of their musical skills and/or experience, the ability to match pitch is essential.  
02 – Concert Choir – This group prepares and presents sacred and secular music of all styles, as well as folk and popular song arrangements. Enrollment is open to all students with permission of the instructor.

03 – Vocal Ensemble – This group will prepare and perform music from the classical and popular styles.

04 – Musical Theatre Ensemble – This group will prepare and perform music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sing confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

MUS 1113 Instrumental Ensembles (0-3). (May be repeated for credit.)

01 – Concert Band – This group performs concert band literature. Enrollment is open to all students with permission of the instructor.

02 – Symphonic Wind Ensemble – This group prepares and presents the finest of band and wind ensemble literature available. Membership is by audition only.

03 – Jazz Ensemble- This group prepares and presents works in styles ranging from early jazz to modern rock. Membership by permission of the instructor.

04 – Brass Ensemble – This group prepares and presents selected small brass ensemble literature. Membership is by audition only.

05 – Woodwind Ensemble – This group prepares and presents selected wood-wind ensemble literature. Membership is by audition only.

06 – Wind Ensemble – This group prepares and performs concert literature. Performances include both formal and informal settings and athletic events. Enrollment by permission of the instructor.

07 – Guitar Ensemble – This group will prepare and perform music from the Classical and Popular Styles. Membership by audition only.

08 – Specialty Ensemble – Special instrumentation. Membership by audition only.

09 – Percussion Ensemble – Membership by audition only.

10 – Orchestra – Membership by audition only.

11 – Marching Band – Fall Semester only.

**MUS 1114 Vocal Techniques (3-0).** This course covers three areas: basic theory of singing, including the relationship of the body to singing; lyric diction for choral ensembles and soloists; and vocal/choral rehearsal techniques.

**MUS 1116 (MUSI 1116) Sight Singing & Ear Training I (2-0).** The aural study of basic musical elements with emphasis on sight singing, scales, intervals, chords, and harmonic and melodic diction. Meets two hours per week.

**MUS 1117 (MUSI 1117) Sight Singing & Ear Training II (2-0).** Continuation of MUS 1116. Meets two hours per week. Prerequisite: MUS 1116

**MUS 1118 Guitar Class (0-2).** (May be repeated for credit once only). For beginning guitarists. Emphasis on learning cords, strumming, finger style and note reading. Several guitars available for rent. Open to all students.

**MUS 1171 Composition (1-0).** Students will study basic compositional techniques. Prerequisites: Permission of instructor.

**MUS 1181 (MUSI 1181) Piano Class I (0-3).** Class instruction for Music majors and minors, and for other students who have not had previous study.



**MUS 1211 Individual Instruction (1-9).** (May be repeated for credit.) Two thirty-minute or one-hour lesson and not less than 10 hours practice per week. Designed for Music majors, but other students may enroll with the permission of the instructor. Private lesson fee: \$25  
01 Piano, 02 Voice, 03 Flute, 04 Oboe, 05 Clarinet, 06 Saxophone, 07 Bassoon, 08 French Horn, 09 Trumpet, 10 Trombone, 11 Euphonium, 12 Tubas, 13 Percussion, 14 Guitar, 15 Violin Family, 16 Other, 17 Organ

**MUS 1303 (MUSI 1303) Fundamentals of Music (3-0).** An elementary course for general students in the fundamentals of music; singing, piano keyboard, listening activities, and a study of clefs, keys and rhythms will be used to explore these fundamentals. This course meets Fine Arts requirement.

**MUS 1308 Music Literature I (3-0).** (A fine arts/humanities course). A course designed to acquaint students with representative music of different ages, styles, media, and forms; and to its historical background. This course meets Fine Arts requirement.

**MUS 1309 (MUSI 1310) American Music (3-0).** A general survey of various styles of music of the Americas, including but not limited to jazz, folk, rock and contemporary music.

**MUS 1310 Problems in Music (3-0).** Individual or small group study of specific topics in music on the lower division level. May be repeated for credit when topic varies.

**MUS 1311 (MUSI 1311) Music Theory I (3-0).** A study of basic musical elements with emphasis on terminology, scales, intervals, chords, tonal relationships, and simple part writing.

**MUS 1312 (MUSI 1312) Music Theory II (3-0).** Continuation of MUS 1311. Prerequisite: MUS 1311 or equivalent.

**MUS 2112 Music Theatre Ensemble (0-3).** This group will prepare and perform music of the musical theatre idiom. Performance may be staged or sung in a concert setting, depending on the repertoire for the given semester. Placement auditions may be held at the beginning of the semester. Prerequisite: Ability to accurately match pitch and sing confidently alone or in a group.

**MUS 2115 Piano Class II (0-2).** (May be repeated for credit). A study to develop keyboard skills, ear training, sight reading, keyboard harmonization. Class instruction is for music majors, minors, or permission from the instructor.

**MUS 2116 (MUSI 2116) Sight Singing & Ear Training III (2-0).** The continued aural study of basic musical elements with emphasis on sight singing, scales, intervals, chords, and harmonic melodic dictation as well as musical forms and structures. Prerequisite: MUS 1117.

**MUS 2121 String Techniques (2-0).** Class instruction for string instruments, for music majors and minors who have not had previous study, and for other interested students. Emphasis is on the ability to play the instruments studied.

**MUS 2122 Percussion Techniques (2-0).** Class instruction for percussion instruments, for music majors and minors who have not had previous study, and for other interested students. Emphasis is on the ability to play the instruments studied.



**MUS 2123 Brass Techniques (2-0).** Class instruction for brass instruments, for music majors and minors who have not had previous study, and for other interested students. Emphasis is on the ability to play the instruments studied.

**MUS 2124 Woodwind Techniques (2-0).** Class instruction for woodwind instruments, for music majors and minors who have not had previous study, and for other interested students. Emphasis is on the ability to play the instruments studied.

**MUS 2311 (MUSI 2311) Music Theory III (3-0).** A continuation of musical elements studied in MUS 1331, with greater emphasis on musical structure, analysis, and music writing. Prerequisite: MUS 1312.

**MUS 3111 Individual Instruction (2-6).** (May be repeated for credit.) One thirty-minute lesson and not less than five hours practice per week. Enrollment is open to Music majors and minors, and to other students with the permission of the instructor. Private lesson fee: \$25

01 Piano, 02 Voice, 03 Flute, 04 Oboe, 05 Clarinet, 06 Saxophone, 07 Bassoon, 08 French Horn, 09 Trumpet, 10 Trombone, 11 Euphonium, 12 Tubas, 13 Percussion, 14 Guitar, 15 Violin Family, 16 Other, 17 Organ

**MUS 3112 Vocal Ensembles (0-3).** (May be repeated for credit.)

01 – University Chorus. This group prepares and presents works by major composers and contemporary composers each semester. There are usually two performances per semester. Enrollment is open to all students regardless of musical skills or experience: The ability to match pitch is essential.

02 – Concert Choir – See description for Music 1112, above.

03 – Vocal Ensemble – See description for Music 1112, above.

**MUS 3113 Instrumental Ensembles (0-3).** (May be repeated for credit.) – See description for Music 1113, above.

01 Concert Band, 02 Symphonic Wind Ensemble, 03 Jazz Ensemble, 04 Brass Ensemble, 05 Woodwind Ensemble, 06 Wind Ensemble, 07 Guitar Ensemble, 08 Specialty 09 Percussion Ensemble, 10 Orchestra, 11 Marching Band

**MUS 3117 Individual Studies (0-1).** Individual study of selected academic topics in music.

**MUS 3141 Ear Training IV (2-0).** The aural study of advanced musical elements with emphasis on sight singing, chromatics, scales, intervals, chords, and harmonic and melodic dictation, as well as forms and structure. Prerequisite: MUS 2116.

**MUS 3171 Advanced Composition (1-0).** Students will study advanced compositional techniques. Prerequisites: Permission of instructor.

**MUS 3211 Individual Instruction (1-9).** (May be repeated for credit.) Two thirty-minute lessons or one-hour lesson and not less than 10 hours practice per week. Designed for music majors and minors but other students may enroll with the permission of the instructor. Private lesson fee: \$25

01 Piano, 02 Voice, 03 Flute, 04 Oboe, 05 Clarinet, 06 Saxophone, 07 Bassoon, 08 French Horn, 09 Trumpet, 10 Trombone, 11 Euphonium, 12 Tubas, 13 Percussion, 14 Guitar, 15 Violin Family, 16 Other, 17 Organ

**MUS 3310 Special Topics in Music (3-0).** Topics to be selected from: History and Literature of Music, Music in the General Culture, Techniques of Instrumental or Vocal Music or another topic in the field of music. (May be repeated for credit when topic Varies.)

**MUS 3311 Music Materials for Children (3-0).** A study of music materials and skills which are effective in providing a musical background for children.

**MUS 3312 Problems in Music (3-0).** Individual or small group study of specific topics in music on the upper division level. May be repeated for credit when the topic varies. Prerequisite: junior standing.

**MUS 3313 Fundamentals of Conducting (3-0). QEP MAPPED COURSE** A study of effective hand and baton techniques used in conducting music ensembles.

**MUS 3316 Secondary Music Methods (3-0).** A study of the value of music in society; music as a fine art; music for the performer; music for the listener; the necessary skills Required for vocalists and instrumentalists, including the understanding of the changing male adolescent voice; appropriateness of music literature for use in instrumental or vocal ensembles for adolescents; music as a cultural force in society; and, basic understanding of instrumental and vocal ensembles organization. Prerequisite: Junior standing and consent of the instructor.

**MUS 3317 Problems in Music (0-3).** Individual or small group study of specific topics in music on the upper division level. May be repeated for credit when topic varies.

**MUS 3341 Music Theory IV (3-0).** Continuation of MUS 2311, plus analytical techniques used in the understanding of formal structures found in musical compositions. Prerequisite: MUS 2311 or equivalent.

**MUS 4112 Advanced Musical Theatre Ensemble (0-2).** Advanced instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sing confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

**MUS 4131 Senior Recital (1-0).** A course to be the capstone of applied music individual instruction. Students will prepare 20 minutes (actual) of music for a public recital, demonstrating proficiency on their instrument or voice. They will also prepare a program, including scholarly program notes which have been researched and relate to the music to be performed.

**MUS 4215 Marching Band Techniques (2-0).** A study of the problems peculiar to the marching band and their solutions; planning, charting, and rehearsing of marching performances for parades, half-time shows, and contests; the administration of marching band personnel and equipment; baton twirling and drum majoring.

**MUS 4216 Arranging (2-0).** (May be repeated for credit if arranging problem varies.) A practical study of arranging music for a variety of vocal and instrumental ensembles through an understanding of their traditions and problems. Prerequisite: Music 2311 or its equivalent.

**MUS 4310 Special Topics (3-0).** Students will study a selected topic from the field of music, such as the History and Literature of Music; Music in the General Culture; or Techniques of Instrumental or Vocal Music. Prerequisites: Permission of instructor.

**MUS 4311 History of Music I (3-0). QEP MAPPED COURSE** This course is a survey of the history and literature of music, including in-depth study of composers, periods, styles, and musical development from antiquity to the present time. Prerequisite: MUS 1308 or permission of the instructor.

**MUS 4312 History of Music II (3-0). QEP MAPPED COURSE** This course is a survey of the history and literature of music, including in-depth study of composers, periods, styles, and musical development from the Class Period (1750) through the present. Prerequisite: MUS 4311 or permission of the instructor.

**MUS 5112 Musical Theatre Performance (0-2).** Advanced instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sing confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

**MUS 5319 Individual Research Problems in Music (0-3).** The student will do independent work in a limited area of music selected in consultation with the instructor in terms of both departmental and student interest and needs.

**MUS 5320 Seminar in Instrumental Pedagogy (3-0).** Advanced study of teaching methods, analysis, rehearsal and performance for musical instrument or voice in the individual or group setting. May be repeated for credit when topic varies.

**MUS 5321 Seminar in Vocal Pedagogy (3-0).** Advanced study of teaching methods, analysis, rehearsal and performance for musical instrument or voice in the individual or group setting. May be repeated for credit when topic varies.

## **NATURAL RESOURCE MANAGEMENT (NRM)**

**NRM 1101 Freshman Seminar (1-0).** Seminar course designed to introduce students to faculty, facilities, and programs in ANRS and to introduce students to study skills essential for a successful career.

**NRM 1301 (HORT) Horticulture (2-2).** A survey of the general field of horticulture; a study of the principles and practices of propagation; the growth and fruiting habits of horticulture plants and the culture, harvesting, handling and utilization of fruit and nuts. Entrepreneurship skills and landscape design will be emphasized.

**NRM 2301 Range Resources (3-0).** An introduction to the principles of range management, including a survey of its history, resources, policies, grazing regions, range ecology, grazing systems, range improvements, and evaluation.

**NRM 2303 Principles of Conservation Biology (3-0).** QEP Introductory course on the fundamental issues in the discipline of conservation biology including conservation genetics, habitat fragmentation, natural resources sustainability, and island biogeography.

**NRM 2305 Soils (2-2).** The origin, formation, and classification of soils, as well as their physical, chemical, and biological properties. Organic matter, moisture, and soil fertility maintenance are also covered.

**NRM 2330 (AGRI 2330) Wildlife Conservation and Management (3-0).** An introduction to the wildlife resources of the United States with specific reference to Texas. The history of game management, endangered species, and methods for the maintenance, control, and increase of wildlife resources.

**NRM 3202 Wildlife Identification and Natural History (1-2).** A course that provides fundamental identification skills and an understanding on the life history and habitat requirements of various game and nongame animals. Prerequisite: NRM 2302

**NRM 3301 Fire Ecology (3-0).** Study of fire in range ecosystems, including history of fire, climate factors associated with fire, vegetation response, evolution of ecosystems with fire, prescribed burning as a management tool, fire safety and liability concerns.

**NRM 3302 Forest Ecology (3-0).** Introduction to forest ecosystems. Includes forest types and distribution, inventory and monitoring techniques and management of forest ecosystems.

**NRM 3303 Ecology and Conservation of Natural Resources (3-0).** An overview of the history, science, use and policy approaches to natural resource management, with an emphasis on rangeland, wildlife, soil and water resources within a social context.

**NRM 3304 Natural Resource Policy and Administration (3-0).** An advanced course in land use management and policy, administrative organizations, and public relation philosophies of private, state, and federal agencies that manage natural resources on publicly and privately owned lands. This course includes special programs presented by speakers from both state and federal agencies responsible for policy implementation and administration of wildlife and other natural resources. Prerequisite: NRM 2330

**NRM 3305 Wildland Plants (2-2).** A study of wildland plants and plant communities, including identification, growth and phenology, forage and browse values, restoration value, and habitat.

**NRM 3308 Agricultural Statistics (3-0).** Major emphasis is placed upon design, analysis and interpretation of agricultural and biological experimental data. Information presented in this course will include statistical concepts and models, simple tests of significance, analysis of variance, mean separation procedures, and linear regression-correlation analysis. Prerequisite: Math 1332, or 1314, or 1342 or permission of instructor.

**NRM 3310 Special Topics (3-0).** Selected topics in the field of natural resource management. Topic selected according to student interest and need. May be repeated as topics vary.

**NRM 4301 Human Dimensions in Natural Resource Management (3-0).** Theory and applications for considering human dimensions in an integrated approach to wildlife conservation and management. Course emphases will include human values, the role of constituency groups, natural resource policy development, conflict resolution, group decision-making, research methods, and case studies. Prerequisite: NRM 2330 and NRM 2303

**NRM 4302 Advanced Topics in Conservation Biology (3-0).** Examines the major areas in conservation-oriented research including patterns of biodiversity, extinction, conservation genetics, conservation of populations, communities and landscapes, and natural resource sustainability.

**NRM 4303 Range Ecology (3-0).** A study of rangeland communities, including principal forage species characteristics, growth, and phenology; resource planning and management; the effects of range livestock and wildlife on range vegetation; the study of plant succession and climax in relation to grazing and ecological condition. Prerequisite: NRM 2301

**NRM 4304 Range Inventory and Analysis (2-2).** An overview of methods for measuring and analyzing rangeland plant communities and populations; statistical analysis of sampling; techniques to inventory rangeland resources; determining range health; determining forage production and utilization; determining proper stocking rates. Prerequisite: NRM 2301, NRM 3201, and NRM 3308

**NRM 4305 Wildlife Management Techniques (2-2). QEP MAPPED COURSE** An overview of habitat inventory and evaluation techniques, census methods, age and sex criteria; banding, data analysis, telemetry analysis, and research methods in wildlife management. Prerequisite: NRM 2302 and NRM 3202

**NRM 4307 Range and Wildlife Habitat Management (2-2).** Principles and practices of range and wildlife habitat management, including range improvement through mechanical, chemical, prescribed burning and biological manipulation of vegetation, grazing systems, revegetation and other habitat management practices. Prerequisite: NRM 2301

**NRM 4308 Big Game Management (2-2).** Application of the principles of wildlife management to big game species with a focus on the biology and behavior of big game species and how this influences habitat management, production, population characteristics, and management strategies for each species. Prerequisite: NRM 2301 and NRM 2302

**NRM 4309 Wildlife Population Dynamics (3-0).** Subject material dealing with the mechanics of growth and structure of populations, departures from stability and natural and artificial regulation of population levels, and techniques used to survey and monitor wildlife populations. Prerequisite: NRM 2302 and junior or senior status or approval of instructor.

**NRM 4311 Problems in Natural Resource Management (3-0).** Individualized instruction in all facets of natural resource management. This course is developed to meet specific needs of individual students. May be repeated with approval of NRM chair. Offered all semesters. Prerequisite: Approval of NRM chair.

**NRM 4314 Range Watershed and Hydrology (3-0).** Discussion of basic hydrologic processes, watershed drainage on rangeland watersheds; networks and stream-flow characteristics; influences of range vegetation on watershed, and management of rangelands to optimize watershed benefits.

**NRM 4409 Mammalogy (3-2).** The systematics, phylogeny, natural history and economic relations of mammals of the world with particular emphasis on mammals native to the Trans-Pecos region of Texas. Museum technique and field work will be stressed. Prerequisite: General Zoology or equivalent

**NRM 4410 Ornithology (3-2).** The systematics, phylogeny, natural history and field studies of birds with emphasis on those found in the Trans-Pecos region of Texas. Prerequisite: General Zoology or equivalent

**NRM 5101 Graduate Seminar (1-0).** A course designed to give graduate students the opportunity to present oral papers and receive evaluation of the presentation, or to review job search techniques and employment opportunities for new graduates. Should be repeated for credit (proposal and defense semesters).

**NRM 5302 Seminar in Range and Wildlife Management (3-0).** This course is designed to be flexible to meet the needs of graduate students studying various disciplines in Range and Wildlife Management. May be repeated under different subject matter titles. Recent courses include GIS applications; Applied Wildlife Research; Wildlife Research, Grants, and Publications; Principles of Ecology; Wildlife Conservation for Teachers; Advanced Techniques in Vegetation Analysis; Range Research Techniques. May be repeated under different subject matter titles.

**NRM 5303 Special Topics (3-0).** Advanced studies in current agricultural and natural resource sciences research. Topics assigned according to student interest and need. Registration approval by the NRM chair. May be repeated under different subject matter titles.

**NRM 5304 Research (0-6).** Advanced studies in natural resource management. Problems assigned according to the experience, interest, and needs of the individual student. Registration approval by the NRM chair.

**NRM 5305 Range and Wildlife Research Methods (3-0).** An overview of the design and analysis of research projects pertaining to the ecology and management of wildlife species and rangeland ecosystems. Specific problems pertaining to the Trans-Pecos region will be stressed, but regional and national issues will be discussed. Methods discussed in the classroom will be applied in field situations.

**NRM 5306 GIS, GPS, and Remote Sensing for Resource Managers (2-2).** An advanced course on the rapidly growing geographic technology used by natural resource managers and scientists including: geographic information systems (GIS), global positioning systems (GPS), and remote sensing methods. Prerequisite: Geology 3401

**NRM 5311 Scientific Writing (3-0).** An advanced study of proposal and thesis format in Animal Science or Range and Wildlife Management. Covers publication styles common in each student's chosen field. Scientific publications are emphasized.



**NRM 5316 Project Research (1to9-0).** Research for thesis project. May be repeated. Prerequisite: Master of Science students that have been admitted to candidacy. May be repeated.

**NRM 5320 Environmental Law and Policy (3-0).** This course will provide a conceptual framework of the legal system with regards to natural resources. This course examines the existing policies and laws regulating wildlife, water, and land use; and reviews the roles and philosophies of various regulating and policy-making agencies including federal, state, and private organizations. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5321 Wildlife and Society (3-0).** This is an advanced course on the theory and applications for considering human dimensions in wildlife conservation. Course emphasis will include human values, the role of constituency groups, natural resource policy development, conflict resolution, group decision-making, and community-based conservation. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5322 Sustainability (3-0).** This course examines the theories, principles, and practices of sustainability. Topic covered will include water, resources, food production, urban development, and economics. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5323 Social Media and Outreach (3-0).** This course examines the various forms of social media and their use in education and outreach. This course reviews the latest trends in social media, use including audience demographics and best practices specific to the field of natural resource conservation. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5324 Conservation Biology (3-0).** This is an advanced course exploring conservation-oriented research, including threats to biodiversity, biogeography, extinction, conservation genetics, landscape connectivity, endangered species conservation, ecological restoration, and conservation education. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5325 Natural Resource Conservation (3-0).** This course is a study of rangeland communities, including principle forage species characteristics, growth and phenology; resource planning and management; the effects of range livestock and wildlife on range vegetation; the study of plant succession and climax in relation to grazing and ecological conditions. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.



**NRM 5326 Silviculture (3-0).** This course examines ecological processes affecting establishment and growth of forest stands with particular emphasis on forest types throughout the United States. This course will also cover forest stand productivity, how productivity is influenced by site, stand dynamics, climatic factors, and application of specific prescriptions to establish and manipulate composition, growth, and health of forest stands. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5327 Soils (3-0).** This course is an advanced overview of soil science and soil management. This course will include soil taxonomy, physical properties, nutrient cycling, carbon cycling, and soil moisture principles and management. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5328 Principles of Game Management (3-0).** This course is an application of the principles of wildlife management to game species with a focus on the biology and behavior of big game, waterfowl, and upland bird species, and how this influences habitat management, production, population characteristics, and management strategies for each species. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5329 Internship (3-0).** This course is designed to combine classroom theory with practical application through job-related experiences. Students are either employed by or volunteer with a natural resource conservation organization and work with a pre-approved project. THIS COURSE WILL NOT BE AVAILABLE TO STUDENTS PURSUING AN M.S. IN NATURAL RESOURCE MANAGEMENT WITHOUT WRITTEN PERMISSION FROM THEIR GRADUATE COMMITTEE.

**NRM 5403 Special Topics (4-0).** Advanced studies in current agricultural and natural resource sciences research. Topics assigned according to student interest and need. Registration approval by the NRM chair. May be repeated under different subject matter titles.

**NRM 5409 Wildlife Population Dynamics (3-2).** Advanced course dealing with the mechanics of growth and structure of populations, departures from stability and natural and artificial regulation of population levels, and techniques used to survey and monitor wildlife populations.

**NRM 5412 Biostatistical Analysis Theory (3-3).** An introduction to statistical concepts and models applied to agricultural and biological systems. The course introduces the scientific method, inferential theory, data types, experiment design, descriptive statistics, the normal distribution, and null hypothesis significance testing (NHST) for these scenarios; one-sample, two-independent-sample, two paired sample, multi-sample 1-way (ANOVA), multiple comparisons, factorial and nested ANOVA, multivariate ANOVA, data transformations, linear regression, and correlation, multiple regression and correlation, polynomial regression, goodness of fit, contingency tables, and testing for randomness. Emphasis is on theory and hand-calculations. Offered fall.

**NRM 5413 Biostatistical Analysis Application in R and SPSS (2-4).** An advanced course in statistical concepts and models applied to agricultural and biological systems. Emphasis will be placed on data analysis and interpretation using computer statistical applications. The course applies all null hypotheses significance testing (NHST) procedures taught in NRM 5412, first in Program SPSS, then in Program R after the thorough overview of R programming. NHST theory for these advanced scenarios will also be introduced and applied in R; Generalized Linear Models (GLMs) including Poisson regression, dichotomous variables, binomial distribution, and proportion testing and logistic regression: Generalized Linear Mixed Models (GLMMs); and circular distributions.

**NRM 6301 Thesis Proposal (0-6).** Satisfactory completion of this course will result in an acceptable prospectus presented to the Graduate Committee. The student will normally register for this course no earlier than the second semester of graduate study.

**NRM 6302 Thesis Defense (0-6).** The student will enroll in this course each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made. Satisfactory completion of this course will result in the completed thesis presented to the graduate committee, accepted by the Graduate Dean and filed appropriately.

## **NURSING (NUR/NURS)**

***NURS courses are reserved for the RN to BSN program***

**NUR 3201 Foundations of Nursing Informatics (2-0).** This course introduces students to fundamental concepts related to nursing information, communication technologies, systems and skills and their impact on patient centered care. A variety of learning activities will engage students in the use of clinical information systems, electronic databases and health care records used to communicate and manage patient care data, support patient care decision making, and promote patient safety. Principles of legal, ethical and policy issues associated with information management in health care systems and how these concepts are used to analyze workflow, data trending and system change in health care settings are addressed.

**NUR 3304 Introduction to Rural and Border Communities (3-0).** This course introduces the students to the concept of rural and border communities compared to urban/suburban. The focus is on the changes over time, differences, impact of health awareness, and access to health care, preventive, and treatment resources. This course addresses potential for health promotion and disease prevention in the rural and border community. Skills include identifying sources of health-related information for population/community assessment as basis for policy planning. The unique role of being known to the population as a member of the community and also the professional health provider role related to confidentiality and trust. Students will engage in the community to assess perceptions and practices. The role and challenges of the community health nurse are introduced.

**NUR 3310 Introduction to Nursing Research (3-0).** This course is one component of baccalaureate education for professional nursing focusing on students becoming competent consumers of research in nursing and related fields. Various models of inquiry in nursing, including basic concepts, research principles, processes and applications needed to develop critical-thinking and problem-solving skills will be examined. Theories of evidence informed practice, appraisal of published research, and translation of findings into clinical practice serve as the foundation for knowledge development and skills that foster clinical reasoning, decision making and practice. Students will have the opportunity to apply evidence when participating in planning and implementing nursing care, inter-professional communication, population health for rural and border communities and demonstrating professionalism and professional values.

**NUR 3311 Essence of Professional Nursing in Rural/Border Communities (3-0).** This first nursing course taken by students entering the BSN Program, introduces students to the program mission, philosophy, conceptual framework, faculty philosophy of nursing and student learning processes. Students will explore nursing's history and relationship with a rapidly evolving health care system. Students will explore the major concepts of concern in the discipline of nursing; person, environment, nursing and health within the context of rural/border communities. Students will begin to appreciate personal values, and the impact of culture and environment on health and wellness in the frontier regions of Texas. In this course students initiate nurse-patient relationships during the first phase of the Geriatric Project. The course introduces the students to professional writing, inquiry, reflection, and self-care as the foundation for individual professional development.

**NUR 3312 Introduction to Patient Centered Concepts (3-0).** This course is an introduction to selected behavioral and pathophysiological concepts that commonly occur with patient care situations. Analysis of these concepts include data for all age groups. Students will obtain introductory information through class preparation and class room discussion for each concept which will be exemplified in the skills and simulation laboratory and external clinical agency activities. Recall of growth and development will enhance knowledge obtained for each age group and concept. Basic nursing activities linked to selected concepts will be experienced and guided within Concept-Based Clinical Competencies.

**NUR 3314 Nursing Pharmacology (3-0).** This course is an introduction to pharmacology with emphasis on the actions, interactions, dosage, half-life, adverse effects, and nursing implications for medications in each drug classification. Emphasis on medications as a major treatment modality for all age groups will continue throughout the nursing education experience. In addition to learning key medications in each drug classification, topics will include the roles and responsibilities of the nurse in safe administration of medications, observation and documentation of desired and adverse effects from the medication and principles to be followed in patient teaching within a legal/ethical framework. Rural and frontier community characteristics that pose unique challenges or successful pharmacological therapies will be addressed. Knowledge of how medication effectiveness may be altered by circadian rhythms; incompatibilities with other prescribed drugs, over the counter drugs and alternative medications; conflict with nutritional intake and poor compliance with drug intake will be acquired in classroom, skills lab, and external lab clinical learning activities.

**NUR 3320 Professional Nursing I (3-0).** This course establishes the role of the registered nurse as a member of the profession with individual accountability to the public, with responsibility for coordination of patient care, and for patient advocacy. The course addresses decision making related to providing direct care in any setting. The course addresses the ANA code for Nurses principles 1, 2 and 3 related to the individual professional nurse.

**NUR 3413 Patient Centered Concepts Across the Life-Span (4-0).** This concept-based integrated approach to learning continues with concepts analyzed across the life-span with the inclusion of frequently occurring exemplars (diagnoses). Nursing management and treatment modalities are included for each of the exemplars. The course begins with psycho-socio-cultural concepts commonly encountered in patients of any age and progresses through reproductive events which introduces the newborn infant. Concepts and exemplars in this course are foundational to developing clinical judgement required for the nursing process. Simulation activities will provide opportunities to link classroom data to potential patient clinical experiences.

**NUR 3441 Competencies for Patient Centered Care I (2-8).** This course continues the development of professional nursing skills/competencies required to provide competent nursing care to patients of all ages. Focus is on psychomotor skills with attention to clinical judgment required to perform skills in a safe, effective manner to each age group. Competencies are centered around curriculum concepts which are repeated and evaluated during skills and simulation lab to achieve mastery before performed in the clinical setting. Administration of medications, including intravenous access, delivery of medications, and blood products, is initiated in this course. Clinical scheduling will provide for continuation of the Geriatric Modules and initiation of Obstetric and Per-operative Modules.

**NUR 3540 Comprehensive Patient Assessment in Rural Border Communities (2-12).** This course addresses techniques and application of bio-psycho-socio-behavioral and cultural principles of assessment applicable across the life span for individuals with health care needs in rural/border communities. This educational process links previous basic knowledge and experience with concepts, skill to utilize diagnostic tools and equipment, therapeutic communication skills, body systems assessment, screenings, diagnostic data, pathophysiologic knowledge and standardized data scales to obtain a comprehensive patient assessment. Assessment techniques will be applied in all areas of nursing including obstetrics, pediatrics, geriatrics, medical-surgical patients, mental health, and acute care. Classroom, laboratory and on-line experiences will be utilized throughout the semester.

**NUR 4222 Professional Nursing III (2-0).** This course addresses the role of the nursing profession in the context of local, state, national, and global systems impacting health and well being of individuals and populations. This course addresses the role of the nurse and profession in the evolution of regulation and policies that impact health and safety of populations. The course prepares the nurse graduation, licensure and anticipation of life-long nursing career. The course addresses the ANA Code for Nurses Principles 7, 8, and 9 related to the context of nursing practice including regulation and policy. Prerequisites: NUR 3311, 3220, 4321

**NUR 4305 Rural and Border Community Public Health (3-0).** This course emphasized the role of community and public health concepts and is designed and adapted to rural and border individuals/populations/communities. Assessment of national, state, and local services and policies that address health promotion and disease prevention and goals. The various roles of nurses in the community health systems are explored and practiced, building on previous clinical experiences in the community. The course addresses community assessment and policy planning unique to the setting. Challenges faced by community health nurses are explored. Students actively engage in local community health services in an antonymous role with Emergency Medical Services (EMS) and in the Emergency Room (ER). The course also addresses rural health issues at the state, national, and global levels.

**NUR 4321 Professional Nursing II (3-0).** This course addresses the role and accountability of the professional nurse engaged in the health care system as primary coordinator of patient care and safety. The course addresses decision-making within the health care setting including delegation, performance improvement, and peer review. The course addresses the ANA Code for Nurses Principles 4, 5 and 6 related to the nursing practice environment including health care systems and various practice settings. Prerequisites: NUR 3311, 3220

**NUR 4414 Patient Centered Concepts Across the Life-Span II (4-0).** Coverage of health care concepts with application of selected exemplars continues to enhance development of clinical judgment knowledge and skills. Exemplars for each concept include conditions across all ages with expanding intensity of conditions and complexity of treatment modalities which demonstrate evidence-based practice. Simulations are designed to enhance nursing knowledge and skill through model, related, and borderline cases for selected concepts.

**NUR 4415 Patient Centered Concepts Across the Life-Span III (4-0).** Progression to advanced health/illness conditions is the focus of this course for each component of nursing care across all ages in the life span. Understanding biological changes consistent with advancing conditions including influences of behavioral, psychological, cultural environmental and ethnicity variables are incorporated in this course. Simulation lab experiences provide the opportunity to demonstrate planning and implementation of nursing care for life-threatening conditions in all ages. Contrary cases which depict conditions of differential diagnosis challenges nursing management skills.

**NUR 4542 Competencies for Patient Centered Care II (5-0).** This course focuses on integrated concepts for the development of the professional nurse/s role in complex nursing situations across the life span. Emphasis is on knowledge and competency development while incorporating clinical judgment, professional values, and evidence-based practice within the nursing process. Learning experiences will occur in all clinical nursing areas throughout the semester with guidance from faculty members and preceptors. Clinical learning opportunities will incorporate previously learned and current concepts. Clinical scheduling will provide opportunities for continuation of Geriatric, obstetrical, and Peri-operative Modules. Effective communication with members of the health-care team increases the potential for positive outcomes in patients across the life span.

**NUR 4544 Competencies for Patient Centered Care III (5-0).** This course focuses on integrated concepts and skills for the development of the professional nurse's role in advanced nursing situations with all aged patients/families involving multiple body systems in intermediate and critical care settings. Emphasis is on knowledge, judgment, skills and professional values within a legal/ethical framework. Development of beginning leadership and management skills will be reflected in direct-patient learning activities in all clinical sites. Incorporation of evidence-based practice is evident as the basis for decision making for nursing intervention, leadership and management. Clinical scheduling will provide opportunities to complete Geriatric, Obstetrical, and Peri-operative Modules.

**NURS 3301 Trends and Issues in Professional Nursing (3-0).** Explores current societal health trends, political issues, informatics, and trends related to nursing and contemporary health care. Application to professionalism, empowerment and key components for clinical judgment.

**NURS 3303 Nursing Theories and Concepts (3-0).** Exploration of nursing theories and concepts that provide the foundation for and guide nursing interventions. Analysis of multi-cultural concepts that apply to selected populations across the life span.



**NURS 3305 Nursing Research and Application (3-0).** Basic concepts, research principles, processes and applications provide information for the role of the nurse as means of acquiring and refining knowledge and using data to enhance clinical judgment. Application of core concepts of informatics, computer skills, technology and ethical issues in patient confidentiality in clinical practice and data management.

**NURS 3307 Role of Evidence Based Professional Nursing Practice (3-0).** Concepts of evidence-based nursing practice are applied to selected clinical situations. Care of aging patients and patient safety issues are included. Focuses on meeting individual patient needs with evidence-based methods in multidisciplinary situations is the focus.

**NURS 3309 Comprehensive Nursing Assessment (2-4).** This course increases techniques, process, and bio-psycho-social-behavioral and cultural nursing principles utilized to achieve comprehensive patient assessment. General communication and psychomotor skills will be addressed across the lifespan while students are encouraged to focus on their selected patient population. This educational process builds on previously acquired assessment knowledge and skill as well as continued experiential skills gained from clinical practice experience. Exploration and incorporation of current therapeutic communication skills, systems assessment, screenings, diagnostic data, pathophysiologic knowledge, and use of standardized data scales will contribute to comprehensive patient assessment.

**NURS 4301 Nursing Management and Leadership (3-0).** Examines leadership, management and organizational theories in relation to resource management, safety, and effective delivery of nursing to sets of clients. Focuses on the value of inter-professional teamwork, communication, reflection, and collaboration in systems and mid-level management in diverse settings.

**NURS 4303 Legal and Ethical Issues in Health Care (3-0).** Applies legal and ethical guidelines to clinical situations pertaining to the role of the professional nurse. Examines philosophic foundations of decision making in contemporary health care with extension to identification and management of ethical dilemmas. Applies legal guidelines from the Texas Nurse Practice Act and landmark court cases to clinical situations with consideration for the role of the professional nurse.

**NURS 4305 Population-Focused Community Health (3-0).** Examines roles and functions of nurses within the community including epidemiologic principles. Emphasis is on application of community/public health concepts and design and implementation of nursing systems of care for individuals, at-risk families and vulnerable populations with diverse needs.

**NURS 4307 Risk Analysis, Quality Management and Implications for Practice (3-0).** Application of ethical, legal, economic, and political concepts to nursing practice. Identification of methods to decrease sentinel events through consistent promotion of nursing actions that influence quality improvement and simultaneously reduce morbidity and mortality.

**NURS 4310 Special Topics in Nursing (3-0).** This course provides the opportunity for intensive study of selected issues in nursing. May be repeated one time with progression of the selected topic or a new topic with approval from the Director of the RN to BSN Completion Program.

**NURS 4311 Nursing Informatics (3-0).** This course introduces students to fundamental concepts related to nursing information, communication technologies, systems and skills, and their impact on patient centered care. A variety of learning activities will engage students in the use of clinical information systems, electronic databases and health care records used to communicate and manage patient care data, support patient care decision making, and promote patient safety. Principles of legal, ethical, and policy issues associated with information management in health care settings and how these concepts are used to analyze work flow, data trending, and system change in health care settings are addressed. This course will be added as a potential elective for upper division requirements.

**NURS 4313 Clinical Nursing Practice (1-8).** This course addresses the application of bio-psycho-socio-cultural concepts to individuals with health care needs. The educational process links previous basic nursing knowledge and obtained experience with content from baccalaureate courses to build new clinical nursing principles and practice. Students will utilize advanced systems assessment, screenings and diagnostic data, and pathophysiologic knowledge to guide professional nursing care planning and delivery for a selected patient population with attention to health promotion, patient education, safety issues, cultural needs, and spirituality. Leadership and management principles are evident throughout the course.

**NURS 4610 Baccalaureate Nursing Practice (Internship Area Selected by Student) (6-0).** A capstone course which applies multi-cultural concepts and principles of evidence-based practice, quality improvement, informatics, patient safety, and population-focused community health to health care needs of individuals, families and communities through reflection and analysis. Utilize advanced health systems assessment, screenings and diagnostic data and pathophysiologic knowledge to guide nursing planning for selected patient populations with attention to health promotion, patient education, safety issues, culture, and spirituality.

## **ORGANIZATIONAL LEADERSHIP (ORGL)**

**ORGL 3300: Organizational Leadership (3-0).** A study of the background of leadership with emphasis on principles relevant to current working environments.

**ORGL 3302 Case Studies in Leadership (3-0).** Study of significant leaders through various cultures, nationalities, and periods in history. Prerequisite: ORGL 3300.

**ORGL 3304 Professional Communication for Organizations (3-0).** Intensive study of writing and oral communication skills in technical and professional genres. Students will practice researching, planning, and producing a variety of documents for audiences both within and outside organizations, such as correspondence, various reports, oral presentations, and website documents. Prerequisite: Admission to Organizational Leadership program.

**ORGL 4300 Human Resources and Risk Assessment (3-0).** Current, basic requirements for end treatment of employees. Also focuses on risk assessment and management of employees. Prerequisite: ORGL 3300.

**ORGL 4302 Budget and Revenue (3-0).** Construction of basic budgets, how to track expenses relative to revenue. Prerequisite: ORGL 3300.



**ORGL 4304 Project Development (3-0).** Study of how to select, develop, and motivate teams to accomplish the goals of the organization and how to plan and organize resources to effectively complete projects. Prerequisites: ORGL 3300, 3302, 3304, 4300, 4302, PSCH 4302

**ORGL 4306 Leadership and Strategy (3-0).** A capstone course that integrates the lessons and principles taught about leading organizations. Emphasis is on the role of leaders in generating, implementing and evaluating strategy for non-profit, for profit and governmental organizations. This course integrates the lessons and principles taught about leading organizations and uses them to develop a strategic leadership plan. Prerequisites: ORGL 3300 and ORGL 3302

## **PHILOSOPHY (PHIL/PHL)**

**PHIL 1301 (PHIL 1301) Introduction to Philosophy (3-0).** An introduction to the field of philosophy and its leading questions in metaphysics, epistemology, philosophy of mind, ethics, social philosophy, existentialism, logic, and aesthetics.

**PHIL 1302 (PHIL 2306) Ethics (3-0).** An introduction of systematic approaches to moral reasoning, including both normative ethics and meta ethics as moral philosophy. Survey of approaches to judging the Tightness or wrongness of actions and judgments about the goodness or badness of things.

**PHIL 1303 (PHIL 2303) Logic (3-0).** An introduction to logic emphasizing the nature of the rational process, types of reasoning, the scientific method, and fallacies. Sound reasoning skills are developed.

**PHIL 2301 Special Topics in Philosophy (3-0).** Selected topics in Philosophy. May be repeated for credit when the topic varies.

**PHIL 2302 Readings and Research in Philosophy (3-0).** An individualized course with varying topics to be chosen by the instructor in consultation with the student. May be repeated once.

**PHL 3301 Bioethics (3-0).** This course will address significant matters pertaining to contemporary issues in bioethics. Specific attention will be given to the development of the discipline, how particular religious and philosophical themes illuminate and address issues of human suffering and death, and how such perspectives lead to certain commitments in various contested areas of bioethical concerns (In vitro fertilization, abortion, genetic engineering, euthanasia, assisted suicide, and perspectives on death and dying).

## **PHYSICAL EDUCATION (PE)**

**PE 1150 Wellness/Fitness Assessment (0-2).** A course that assists students in making an assessment of their level of fitness. Included are: cardiovascular fitness, muscular strength, body composition, flexibility, muscular coordination, and concepts of healthy living. May not be repeated for credit.

**PE 1153 Individual Activities (0-2).** Individual sports of Archery, Aerobics, Golf, and Weight Training and Conditioning. Course fee: \$8

**PE 1301 (PHED) Introduction to Physical Fitness and Sport (3-0).** A course emphasizing the aims and objectives and historical background for sports and fitness and recreation. (Fall/Spring) This class must be completed with at least a grade of “C” or better prior to enrolling in an upper level Physical Education class.

**PE 1306 (PHED 1306) First Aid (3-0).** A course which includes class discussion, reading and units on the fundamentals of safe conduct at home, in traffic, in play and recreation, and in the community with a section devoted to first aid in accordance with the latest National Safety Council first aid techniques and Advanced First Aid and CPR certification (Fall/Spring)

**PE 2101 Intercollegiate Activities (0-2).** Participation as a member of an intercollegiate athletic team. Upon dismissal or voluntary withdrawal from the team, the student must report to the Chair of the Department for assignment to the regular activity classes. Elective credit only. May be repeated but may not be used to fulfill P.E. activity course requirements in General Education. Prerequisite: Membership on an intercollegiate athletic team. Course fee: \$8

**PE 2303 (PHED 1331) Activities for Children (3-0).** This course is designed to give a foundation for a working knowledge of activities that are appropriate for children. These activities include elements that are deemed necessary for the complete physical development of the child. (Fall/Spring)

**PE 2304 Skills and Techniques of Individual and Team Sports (3-0).** A course that emphasizes the training in basic skills and techniques of a wide range of individual and team activities including but not limited to: tennis, golf, badminton, archery, speedball, softball, volleyball, basketball, soccer and other selected individual and team recreational activities. (Fall/Spring)

**PE 3301 Theory of Practice of Football (3-0).** A course giving emphasis to the theory of football, including policies in organization and administration of competitive sports programs. (Fall)

**PE 3302 Theory and Practice of Basketball (3-0).** A course which gives emphasis to the theory of basketball, including policies in the organization and administration of competitive sports programs. (Spring)

**PE 3303 Theory and Practice of Baseball and Softball (3-0).** A course which gives emphasis to the theory of baseball and softball, including policies in the organization and administration of competitive sports programs. (Spring) Prerequisite: PE 1303

**PE 3304 Contemporary Health Problems (3-0).** A study of current health problems and topics in society. Specific topics will include substance abuse, communicable diseases, mental health, environmental health, birth control, and nutrition and fitness. (Fall)

**PE 3305 Motor Development (3-0).** This course is designed to permit students to study the various aspects of motor development of children. This will give students the opportunity to study physical growth as a factor accompanying motor development, fundamental motor skill learning and refinement and physical fitness development. (Spring)

**PE 3307 Kinesiology (3-0).** A study of the analysis of human motion and posture subject to both mechanical and biological laws and principles. (Fall) Prerequisite: PE1301

**PE 3308 Theory and Practice of Volleyball and Tennis (3-0).** A course which gives emphasis to the theory of volleyball and tennis including organization and administration of competitive sports programs. (Fall) Prerequisite: PE 1301

**PE 3309 Theory and Practice of Track and Soccer (3-0).** A course which gives emphasis to the theory of track and soccer including organization and administration of competitive sports programs. (Spring)

**PE 4104 Athletic Training Clinical Practicum II (0-3).** A practical clinical experience course for student athlete trainers to work under direct supervision by a certified/licensed athletic trainer. Includes practical experience in bandaging and taping, athletic training Room management, medical referral and administration of injury care and related services. (Fall/Spring)

**PE 4301 Tests and Measurements (3-0).** A course emphasizing the application of tests and measurements to the field of sports and fitness, including medical, written, motor skills, and physical examinations and tests. (Fall/Spring) Prerequisite: Completion of Mathematics Requirement and make a C or better in PE 1301

**PE 4302 Psychology and Physiology of Exercise (3-0).** A study of the relation of physiological and psychological principles to physical fitness and exercise. (Fall/Spring). Prerequisite: PE 1301

**PE 4303 Concepts of Kinesiology and Fitness (3-0).** This course provides a health-related fitness knowledge base with skill and assessment techniques and a review of important kinesiological concepts. (Fall/Spring/Summer) Prerequisites: PE 1301, 3307, 4301, 4302 or permission of instructor

**PE 4304 Athletic Training I (3-0).** A course which deals with proper methods of conditioning for prevention of sports related injuries with a focus on care and treatment of common athletic injuries. (Fall) Prerequisite: PE 1306, Safety and First Aid

**PE 4305 Athletic Training II (3-0).** An advanced study of the care and prevention of athletic injuries with a focus of assessment and evaluation of sports related injuries. (Spring) Prerequisite: PE 4304

**PE 4306 Athletic Therapeutic Exercise (3-0).** The study of therapeutic exercises used in the rehabilitation of athletic injuries and clinical techniques involved in muscle testing including goniometry. (Spring-Every third year) Prerequisite: PE 4304

**PE 4307 Therapeutic Modalities of Athletic Training (3-0).** The study of sports therapy physical agents used in athletic training setting such as cryotherapy, hydrotherapy, and electrotherapy as mechanical therapy. (Spring-Every third year) Prerequisite: PE 4304

**PE 4308 Administration of an Athletic Training Program (3-0).** The study of the administration and management strategies in athletics. Functions such as record keeping, insurance, public relations, pre-participation examinations, facility and equipment. Maintenance and budgets will be discussed. (Fall-Every third year)

**PE 5302 Problems in Physical Education (3-0).** This course covers special aspects of physical education. There is a critical review of selected studies, literature, practices and procedures in the field. This is all applied to the solution of individual problems. Course may be taken more than one time when course content varies.

**PE 5303 Seminar in Health and Physical Education (3-0).** A seminar with emphasis on research in health and physical education in both the elementary and secondary school fields. The course will include methods of research, selecting problems and preparing a written report on the study. Course may be taken more than once when course content varies.

**PE 5306 Problems in Athletic Administration (3-0).** A course designed to give the teacher/coach a better understanding of the special problems that arise in the administration of a physical education or athletic program in the public schools and colleges.

**PE 5309 Sport and Exercise Psychology (3-0).** A course designed to expose students to basic concepts and principles of exercise and sport psychology and applications in counseling, teaching, coaching, athletic training, and fitness instruction.

## **PHYSICAL SCIENCE (PHSC)**

**PHSC 4401 Analytical Instrumentation Theory (3-3).** An interdisciplinary approach to the theory, application and use of modern analytical equipment including a scanning electron microscope (SEM), and X-ray fluorescence spectrometer, and ion chromatography (IC) unit. Prerequisite: CHEM 1311, CHEM 1111. Lab fee: \$8

## **PHYSICS (PHYS)**

**PHYS 1101 (PHYS 1101) College Physics Laboratory I (0-2).** This laboratory-based course accompanies PHYS 1301, College Physics I. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving. Corequisite: Physics 1301. Lab fee: \$8

**PHYS 1102 (PHYS 1102) College Physics Laboratory II (0-2).** This laboratory-based course accompanies PHYS 1302, College Physics II. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Corequisite: Physics 1302. Lab fee: \$8

**PHYS 1301 (PHYS 1301) College Physics I (3-0).** Non-calculus based survey course in general physics covering kinematics, dynamics, temperature, heat, thermal properties of matter, and wave phenomena. Emphasis is placed upon the concepts of physics rather than mathematical relationships. Prerequisite: Math 1314 or a satisfactory score on the algebra placement test.

**PHYS 1302 (PHYS 1302) College Physics II (3-0).** This non-calculus based survey course in general physics covers electricity, magnetism, electromagnetic waves, optics, atomic and nuclear physics, special relativity, and quantum chromodynamics. Emphasis is placed on the concepts of physics rather than mathematical relationships. Prerequisite: Physics 1301

**PHYS 2125 (PHYS 2125) University Physics Laboratory I (0-2).** Basic laboratory experiments supporting theoretical principles presented in PHYS 2325 involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports. Corequisite: Physics 2325. Lab fee: \$8

**PHYS 2126 (PHYS 2126) University Physics Laboratory II (0-2).** Laboratory experiments supporting theoretical principles presented in PHYS 2326 involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports. Corequisite: Physics 2326. Lab fee: \$8

**PHYS 2325 (PHYS 2325) University Physics I (3-0).** General physics for students who plan to do further work in engineering, mathematics, chemistry, geology or other related sciences. The course covers vectors, statistics, linear and rotational kinematics and dynamics and wave phenomena. Prerequisites: Math 1316 and Math 2413

**PHYS 2326 (PHYS 2326) University Physics II (3-0).** Continuation of Physics 2325 covering kinetic theory, thermal properties of matter, thermodynamics, electrostatic fields, potential, electric circuits, and magnetic fields. Prerequisites: Physics 2325 and Math 2414.

**PHYS 3301 Modern Physics (3-0).** Modern Physics covers a broad spectrum of topic related to the development of Physics after the advent of 20th century. This course would cover quantum mechanic, theory of relativity, solid state physics, etc. Understanding of Modern Physics is essential if students want to pursue a future in applied sciences. Topics include the special theory of relativity, wave-particle duality, atomic and nuclear phenomena, elementary particles, statistical physics, solid state, astrophysics, and general relativity. Prerequisites: PHYS 2325, PHYS 2326

**PHYS 4101 Independent Research (0-2).** Research by the student in to a carefully outlined problem in the field of physics, astrophysics, or astronomy. May be repeated for credit when topics vary.

**PHYS 4301 Introduction to Geophysics (3-0).** Advanced level Physics course for students who plan to work in Geology, Geophysics, Atmospheric sciences, engineering, architecture, chemistry, or other related sciences. This course covers principles of Physics which are applied to explain various geological processes happening on our earth and other planets in our solar system. Additionally, we are going to explore these principles in relation to mineral exploration on Earth. Prerequisites: MATH 2413, PHYS 1301/PHYS 2325. PHYS 1302/PHYS 2326

**PHYS 4302 Introduction to Biophysics (3-0).** Advanced level Physics for students who plan to do further work in biology, biochemistry, biotechnology, engineering, mathematics, astronomy, chemistry, geology or other related sciences pertaining to living world. The course covers how principles of Physics are applied to explain different biological processes from a cellular level to a macro level. Prerequisites: MATH 2413 and PHYS 1301/PHYS 2325

## **POLITICAL SCIENCE (POLS/PS)**

**POLS 3302 American Constitutional Law (3-0).** A study of the Constitution of the United States, judicial processes and the effect of leading Supreme Court decisions on the meaning of the United States Constitution. Emphasizes relationship between governments and between government and the individual.

**POLS 3304 Integrated Social Sciences (3-0).** This course covers the State of Texas interdisciplinary standards for Social Studies Generalist EC-6; social sciences in society and the world, history, geography, economics, government, citizenship, culture, science, technology, and society.

**POLS 3307 Contemporary American Foreign Policy (3-0).** This course involves the study of policies and problems in the foreign relations of the United States since World War II. Included are studies in the politics, formulation, conduct, and consequences of American foreign policy.

**POLS 3308 The Presidency (3-0).** This course involves studies in the nature and growth of executive power, the analysis of the many-faceted role of the President; and attention to the types of performances of different individuals in the office. Also studied are the problems of staffing and advising activities, the decision making process in foreign policy, domestic issues, budgeting, and the future of the Presidency.

**POLS 4302 American Political Thought (3-0).** The evolution of American Democracy; ideas of important American writers and statesmen who have contributed to our democratic heritage.

**POLS 4327 Readings and Research in Political Science (3-0).** An independent study of certain topics in political science.

**POLS 5301 Seminar in Comparative Government (3-0).** An examination of various approaches to the study of comparative government with individual research problems designed to explore specific topics. May be repeated when topic varies.

**POLS 5302 Seminar in International Relations (3-0).** An examination of key concepts and approaches to the study of international relations in connection with a study of recurrent issues and topics through individual research problems. May be repeated when topic varies.

**POLS 5304 Seminar Political Theory (3-0).** An introduction, on the graduate level, to the problems and techniques of analytic political philosophy or other topics in theory.

**POLS 5305 Readings and Research in Government (3-0).** A readings and research course for graduate students in political science designated to meet needs not provided for in other available courses. May be repeated for credit with the approval of the department.

**POLS 5317 Seminar in United States Government (3-0).** Course focuses on selected topics in U.S. Government. May be repeated when topic varies.

**PS 2305 (GOVT 2305) Federal Government (3-0).** A required course in United States Government.

**PS 2306 (GOVT 2306) State Government (3-0).** A required course in Texas Government.

**PS 2307 Women and the Law (3-0).** The legal status of women at national, state, and local levels, with particular emphasis on recent legislation and court cases.

**PS 2308 Readings and Research (0-3).** Selected readings and research projects to be offered as individual study to meet student's needs. May be repeated for credit.

**PS 3300 The Study of Politics (3-0).** An introduction to the major concepts that underlie politics. Topics include democracy, political ideologies, and regimes, structures of governments.



**PS 3301 Political Parties (3-0).** The development of the party system in the United States, with an emphasis on elections, campaigns, political behavior, public opinion, and the future of the major parties.

**PS 3302 American Constitutional Law (3-0).** A study of the Constitution of the United States judicial processes and the effect of leading Supreme Court decisions on the meaning of the United States Constitution. Emphasizes relationships between governments and between government and the individual.

**PS 3303 Public Policy (3-0).** An introduction to public policy making in the United States. Includes stages of the policy making process and theoretical basis of public policy as well as special focus on selected policies. May be repeated for credit when policy focus varies.

**PS 3305 Public Administration (3-0).** The development and role of administration in the governmental process; principles and problems of administrative organization and coordination, financial responsibility and personnel management, problems of administrative control and accountability.

**PS 3306 International Relations (3-0).** The theory and practice of international relations with particular attention to the forces and processes contributing to conflict and cooperation among nations.

**PS 3307 Contemporary American Foreign Policy (3-0).** This course involves the study of policies and problems in the foreign relations of the United States since World War II. Included are studies in the politics, formulation, conduct, and consequences of American foreign policy.

**PS 3308 The Presidency (3-0).** This course involves studies in the nature and growth of executive power, the analysis of the many-faceted role of the President, and attention to the types of performances of different men in the office. Also studied are the problems of staffing and advising activities, the decision-making process in foreign policy, domestic issues and budgeting, and the future of the Presidency.

**PS 3312 State and Local Government (3-0).** A study of the organization, functions and powers of state and county government in the United States, with particular reference to patterns of state and local government in Texas. Comparative focus on the state level. Emphasis may be on “politics” or “administration” or both. May include topics such as home rule, problems in International Relations, community power structures, change and reform efforts, politics of education and school districts, local government elites.

**PS 3314 Ethnic and Racial Politics (3-0).** A study of the relationship between selected ethnic and racial populations and governmental processes and policies. Attention will be given to the role of ethnic and racial populations in the public policy development process and the impact of public policy on these populations. May be repeated for credit when ethnic and racial population vary.

**PS 3315 Women and Politics (3-0).** Women’s roles in politics at national, state, and local levels as they reflect the economic, legal social status of women; also, an overview of related political issues, important concepts, events, and movements.

**PS 4303 Comparative Politics and Government (3-0).** Study of the politics and governments of nations other than the United States. Course may be repeated for credit when topic varies.



**PS 4308 Readings and Research (0-3).** Selected readings or research projects to be offered as individual study to meet student needs. May be repeated once for credit with departmental approval.

**PS 4311 Special Topics (3-0).** Special courses on topics not included in the regular curriculum. May be repeated for credit with departmental approval.

**PS 4312 Field Experience in Political Science (3-0).** In this course, the student is placed in a supervised setting within a government office or an agency with a governmental mission. Approval of department chair is required. May be repeated for credit with departmental approval.

**PS 5301 Seminar in Comparative Government (3-0).** An examination of various approaches to the study of comparative government with individual research problems designed to explore specific topics. May be repeated when topic varies.

**PS 5302 Seminar in International Relations (3-0).** An examination of key concepts and approaches to the study of international relations in connection with a study of recurrent issues and topics through individual research problems. May be repeated when topic varies.

**PS 5303 Public Administration Survey (3-0).** The conduct of public business by organized agencies at national, state and local levels. (Public Administration)

**PS 5305 Readings and Research in Government (3-0).** A readings and research course for graduate students in political science designated to meet needs not provided for in other available courses. May be repeated for credit with the approval of the department.

**PS 5307 Scope and Methods in Social Science (3-0).** An introduction to the subject matter of the social sciences and the major contemporary approaches to it. This course is cross referenced with Criminal Justice 5334

**PS 5308 Case Studies in Public Administration (3-0).** Case studies and readings in administration, organization, processes, and goals; the major and characteristic problems of public administration approached through analysis of actual incidents in various executive agencies and theoretical explanations of administrative behavior. Applicable to administration in education settings. (Public Administration)

**PS 5309 Internship in Public Administration (3-0).** Students who enroll in this course are involved in work experience in public or non-profit agencies. Permission of the department chairman required. Academic and work experience evaluations. Maximum of six semester credit hours allowed toward degree requirements. (Public Administration)

**PS 5310 Public Budgeting and Finance (3-0).** Focuses on the development and execution of various budgeting systems with special attention given to the political content of the budgetary process in the public sector. (Public Administration)

**PS 5311 Intergovernmental Relations (3-0).** A study of governmental relations among public administrators at various levels—national, state, regional, local—focusing on interactions among these public officials. (Public Administration)

**PS 5312 Agency Politics (3-0).** A seminar which deals with the several types of non-electoral politics in which public agencies are regularly involved: intra-organizational conflicts, accommodations, negotiations and competitions; and inter-organizational with other agencies, clientele-constituency groups, and legislative and executive entities. (Public Administration)

**PS 5313 Public Policy Analysis (3-0).** Focuses on techniques used in policy development, adoption, and evaluation in the public sector. Topics include policy reviews, needs assessment, the establishment of goals and objectives, and the analysis of benefits, costs, and risks. (Public Administration)

**PS 5315 Local Government Administration (3-0).** Administration of local government with particular reference to small cities in Texas. May also include counties, metro-systems, school districts, and other special purpose units. (Public Administration)

**PS 5316 Special Topics in Public Administration (3-0).** Special courses in Public Administration not included in the regular curriculum. May be repeated for credit with departmental approval. (Public Administration)

**PS 5317 Seminar in U.S. Government (3-0).** Course focuses on selected topics in U.S. Government. May be repeated when topic varies.

**PS 6301 Thesis (0-6).** Satisfactory completion of this course will result in an acceptable prospectus presented to the Graduate Committee. The student will normally register for this course no earlier than the second semester of graduate study. The student will enroll each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made.

**PS 6302 Thesis (0-6).** The student will enroll in this course each semester or summer term in which assistance is provided by Committee members or when use of the library or other research facilities of Sul Ross State University is made. Satisfactory completion of this course will result in the completed thesis presented to the Graduate Committee, accepted by the Dean of the College, and filed in the Office of the Executive Vice President and Provost for Academic Affairs.

## **PSYCHOLOGY (PSCH/PSY)**

**PSCH 3301 Social Psychology (3-0).** An introduction to the theory and phenomena of social psychology. The nature and effect of social influences on individuals and groups. Types of social influences and the various methods used to study them. Topics include social cognition, conformity, obedience, persuasion and propaganda, attribution, aggression, prejudice, liking, loving, and helping. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 3302 Personality Psychology (3-0).** An introduction to personality theory, important personality theorists, and the significant factors in the development of personality across the life span. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 3303 Positive Psychology (3-0).** Positive psychology is the scientific study of the human mental strengths and virtues that allow people and communities to thrive. Topics such as optimism, hope, meaning, wisdom, transcendence, and courage are covered. Theoretical concepts including the broaden-and-build theory of emotions, self-efficacy, mindfulness, flow, learned optimism, social capital, and affective forecasting are addressed.

**PSCH 3304 Abnormal Psychology (3-0).** An investigation of behavioral disorders and the biological and social factors which may affect them. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 3305 Introductory Statistics for the Behavioral Sciences (3-0).** Descriptive statistics and inferential statistics through two-way analysis of variance. Includes both parametric and non-parametric statistics. Required of psychology majors.

**PSCH 3306 Child Development (3-0).** This course presents the major theories of child development and the milestones of physical, psychosocial, and cognitive development from the prenatal period through adolescence. Students identify the characteristics of play and its impact, describe the social development of children and adolescents, and understand the effects of a broad range of developmental influences.

**PSCH 3307 Adult Development (3-0).** The physical, cognitive, and psychosocial development during the various phases of adulthood will be discussed. Students will gain an understanding of the major theories of adult development and research pertaining to these theories.

**PSCH 3308 Psychology of Adjustment (3-0).** An introduction to the work of professionals in the field of psychology, including teaching, research, consulting, industrial psychology, mental health administration, and psychotherapy and counseling in both private and institutional settings. Utilizes extensive field observation. (offered at SWTJC as PSYC 2302)

**PSCH 3309 Psychology of Learning (3-0).** A review of animal and human research involving explanations of learning in everyday life which includes how the consequences of behavior affect future actions. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 3310 Survey of Alcoholism/Drug Problems (3-0).** Historical and current definitions of alcohol and drug use and abuse. Sociocultural aspects of chemical dependency, including vulnerable populations, such as women, seniors, and youth. Identification of symptoms; progression of the illness; overview of impact on individuals, family systems, and others.

**PSCH 3311 Health Psychology (3-0).** This course is concerned with how psychology is related to health and illness. Issues addressed include seeking appropriate health care and adhering to medical advice, the effects of stress and how to manage stress, health habits such as proper nutrition and exercise, health problems such as obesity and substance abuse, and psychological responses to illness. Recommended for students in allied health fields. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 3312 Human Sexuality (3-0).** Fundamentals of human sexuality including biological, behavioral, and cultural aspects of sexuality.

**PSCH 3315 Developmental Psychology (3-0).** The study of the developing human from birth to death, including physical, cognitive, emotional, and moral development. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 3320 Cultural Psychology (3-0).** This course will concentrate on the study of behavior, cognition, and emotion in settings where people of different backgrounds interact, and on differences in behavior, cognition, and emotion that are correlated with cultural background. The material in this course is interconnected with many other areas in psychology, including developmental, abnormal, and social psychology.

**PSCH 4302 Industrial-Organizational Psychology (3-0).** Basic psychological principles of personnel work in business and industry. Significance and evaluation of individual differences, motivation, morale, and employer-employee relations.

**PSCH 4305 Gerontology (3-0).** A survey of the issues relating to aging including family dynamics, retirement adjustments, legislation, mental health and physical health.

**PSCH 4308 Theory and Principles of Psychological Testing (3-0).** Introduction to psychological measurement. Test construction, validity, reliability, standardization, and statistical treatment of test results. Various accepted tests will be examined.

**PSCH 4310 Special Topics (3-0).** Selected topics in psychology which are of particular interests to students of psychology. The course may be repeated for different topics. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSCH 4311 Chemical Dependency Counseling (3-0).** Counseling methods for effective intervention and treatment of harmful alcohol or drug use. Attention given to individual differences in diagnosis, treatment, and potential for relapse. Enhancement of counseling skills, ethical issues, and occupational success in the field will be addressed.

**PSCH 4313 Forensic Psychology (3-0).** An introduction to the work of professionals in the field of forensic psychology. Recommended for Criminal Justice majors.

**PSCH 4325 Cognitive Psychology (3-0).** Introduction to the interdisciplinary field of cognitive science, including the five disciplines of which it is composed, especially cognitive psychology and the “cognitive revolution” in psychology. Addresses such questions as: What is mind? What is thinking? Memory? Learning? Perception? Identity?

**PSCH 4330 Research in Psychology (3-0).** This course introduces students to research methods and design in psychology. Students will learn how to design, execute, and report original research. Recommended for students in other areas of behavioral science. Prerequisites: Psychology 1302 or the equivalent, and PSY/PSCH 3305; or consent of instructor.

**PSCH 4335 History of Psychology (3-0).** Students are introduced to the development of psychology as a scientific discipline, beginning with a survey of ancient philosophical thought, and leading to the eventual combination of ideas and methods from physiology and philosophy. Current trends in contemporary psychological investigation are discussed in terms of persistent questions regarding, for instance, the mind/body question, nature vs. nurture, the correspondence between realities and understanding the nature of knowledge, and the place of humans in the universe. Prerequisites: Psychology 1302 or the equivalent; or consent of instructor.

**PSY 1302 (PSYC 2301) Introduction to Psychology (3-0).** Introduction to psychology as a scientific discipline. Required of all students who will major or minor in psychology. Recommended for students in other areas of behavioral science.

**PSY 2116 Readings and Research (1-0).** Selected readings or research projects to be offered as individual study to meet students' needs. May be repeated for credit when the topic varies with the approval of the major advisor. Successful course completion earns 1 lower division semester credit hour. Prerequisite: PSY 1302 or consent of instructor

**PSY 2216 Readings and Research (2-0).** Selected readings or research projects to be offered as individual study to meet students' needs. May be repeated for credit when the topic varies with the approval of the major advisor. Successful course completion earns 2 lower division semester credit hours. Prerequisite: PSY 1302 or consent of instructor

**PSY 2311 Readings and Research (3-0).** Selected readings and research projects to be offered as individual study to meet student's needs. May be repeated for credit.

**PSY 2315 Special Topics (3-0).** Special course in Psychology on topics not included in the regular curriculum, e.g. professional development and ethics, health psychology, gender and sexuality, cross cultural psychology, psychology for the criminal mind. Prerequisite: PSY 1302 or consent of the instructor

**PSY 3301 Social Psychology (3-0).** An introduction to the theory and phenomena of social psychology. The nature and effect of social influences on individuals and groups. Types of social influences and the various methods used to study them. Topics include social cognition, conformity, obedience, persuasion and propaganda, attribution, aggression, prejudice, liking, loving, and helping. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 3302 Personality Psychology (3-0).** An introduction to personality theory, important personality theorists, and the significant factors in the development of personality across the life span. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 3303 Positive Psychology (3-0).** Positive psychology is the scientific study of the human mental strengths and virtues that allow people and communities to thrive. Topics such as optimism, hope, meaning, wisdom, transcendence, and courage are covered. Theoretical concepts including the broaden-and-build theory of emotions, self-efficacy, mindfulness, flow, learned optimism, social capital, and affective forecasting are addressed.

**PSY 3304 Abnormal Psychology (3-0).** An investigation of behavioral disorders and the biological and social factors which may affect them. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 3305 Introductory Statistics for the Behavioral Sciences (3-0).** Descriptive statistics and inferential statistics through two-way analysis of variance. Includes both parametric and non-parametric statistics. Required of psychology majors.

**PSY 3309 Psychology of Learning (3-0).** A review of animal and human research involving explanations of learning in everyday life which includes how the consequences of behavior affect future actions. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.



**PSY 3311 Health Psychology (3-0).** This course is concerned with how psychology is related to health and illness. Issues addressed include seeking appropriate health care and adhering to medical advice, the effects of stress and how to manage stress, health habits such as proper nutrition and exercise, health problems such as obesity and substance abuse, and psychological responses to illness. Recommended for students in allied health fields. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 3313 Human Sexuality (3-0).** Fundamentals of human sexuality including biological, behavioral, and cultural aspects of sexuality.

**PSY 3314 Multicultural Psychology (3-0).** Culture is examined as an environmental variable that contributes to growth and development, attitudes, sociability, emotional expression, parenting, psychological disorders, careers, individualism and collectivism.

**PSY 3315 Developmental Psychology (3-0).** The study of the developing human from birth to death, including physical, cognitive, emotional, and moral development. Recommended for students interested in allied health, nursing, and medical fields. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 3316 Professional Issues in Psychology (3-0).** This course introduces students to the breadth of topics relevant to being a psychology major exploring personal fit in major fields, professions, and professional organizations in psychology. Students are encouraged to develop active roles in their education, self-management skills, and marketability to build success towards post-graduation. Students are also expected to learn the process of topic development and communication, including writing annotated bibliographies in the style of APA, and giving oral presentations. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 4109 Upper Division Reading and Research (1-0).** Selected readings or research projects to be offered as individual study to meet student needs. May be repeated for credit when the topic varies with the approval of the major advisor. Successful course completion earns 1 upper division semester credit hour. Prerequisite: PSY 1302 or consent of instructor

**PSY 4209 Reading and Research (2-0).** Selected readings or research projects to be offered as individual study to meet student needs. May be repeated for credit when the topic varies with the approval of the major advisor. Successful course completions earns 2 upper division semester credit hours. Prerequisite: PSY 1302 or consent of instructor

**PSY 4306 Biopsychology (3-0).** A systematic review of the theories and research dealing with physiological correlates of learning, motivation, emotion and perception. Prerequisite: PSY 1302 or consent of the instructor.

**PSY 4309 Upper Division Readings and Research (3-0).** Selected readings or research projects to be offered as individual study to meet student needs. May be repeated for credit when the topic varies with the approval of the major advisor. Successful course completion earns 3 upper division semester credit hours. Prerequisite: PSY 1302 or consent of instructor

**PSY 4310 Special Topics (3-0).** QEP MAPPED COURSE Selected topics in psychology which are of particular interests to students of psychology. The course may be repeated for different topics. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 4316 Emotion and Motivation (3-0).** This course provides an overview of theory, research and biographies on motivation and emotion focusing on the function and philosophy of emotion, and how emotional states contribute to the expression of motivated goal-directed behaviors, and vice versa. These processes are examined from a variety of psychological perspectives (e.g., biological, cognitive, developmental, social, phenomenological, aesthetic, spiritual) providing tools for understanding and regulating motivation and emotion, both intra- and interpersonally. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 4318 Person-Centered Psychology (3-0).** The aim of this course is to enrich students' knowledge of the theories and practices of humanistic and/or person-centered psychology empowering them to become increasingly aware of the strengths that human beings possess to nurture their own psychological development. The work is centered on Carl Rogers' major theories, techniques, and current modifications, whereby students observe, participate and work on individual issues promoting their personal growth skills. One or more active teaching methods, such as role-play, live or videotaped demonstration, or other experiential exercises form a significant part of the course experience. Prerequisite: Psychology 1302 or the equivalent, or consent of instructor.

**PSY 4330 Research in Psychology (3-0).** This course introduces students to research methods and design in psychology. Students will learn how to design, execute, and report original research. Recommended for students in other areas of behavioral science. Prerequisites: Psychology 1302 or the equivalent, and PSY/PSCH 3305; or consent of instructor.

**PSY 4335 History of Psychology (3-0).** Students are introduced to the development of psychology as a scientific discipline, beginning with a survey of ancient philosophical thought, and leading to the eventual combination of ideas and methods from physiology and philosophy. Current trends in contemporary psychological investigation are discussed in terms of persistent questions regarding, for instance, the mind/body question, nature vs. nurture, the correspondence between realities and understanding the nature of knowledge, and the place of humans in the universe. Prerequisites: Psychology 1302 or the equivalent; or consent of instructor.

## **QUANTITATIVE ANALYSIS AND STATISTICS (QMTS)**

### **QMTS 4311 Business Statistics (3-0)**

A study of data presentation, descriptive measures, probability distributions, sampling distributions, confidence intervals, and hypothesis testing with emphasis on business applications. Prerequisite: MATH 1314 (SWTJC)

### **QMTS 5309 Quantitative Analysis and Decision Theory for Business (3-0)**

A study of decision-making under uncertainty, decision-making under risk, decision trees, utility theory, linear regression, time series forecasting models, linear programming (graphical method and simplex method), and project management. (PERT/CPM). (MBA Core Course) Prerequisite: QMTS 4311



## **SOCIOLOGY (SOC)**

**SOC 2303 Introduction to Sociology (3-0).** A survey of the field of sociology. Introduction to basic terminology and fundamentals of sociology; and the application of sociological knowledge to problems in human societies.

**SOC 2305 (SOCI 2301) The Family (3-0).** Sociological analyses of the family as a social institution, its social-psychological processes, development, and cross-cultural variations.

**SOC 2306 Readings and Research (0-3).** Selected readings and research projects to be offered as individual study to meet student's needs. May be repeated for credit.

**SOC 3301 Introduction to Social Research (3-0).** The nature of social research including research design, the preparation of data collection instruments, data analysis techniques, and research report writing. Emphasis will be placed on development of computer competencies in behavioral and social science research.

**SOC 3308 Minority Groups (3-0).** The study of the processes and effects of social discrimination in the creation and maintenance of minority groups.

**SOC 3309 The American Society (3-0).** A systematic study of current social institutions of the United States in terms of both structure and function as influenced by various aspects of our culture, including social changes. At times, a thematic approach may be employed with a detailed focus on one institution, such as education or religion.

**SOC 3315 Introduction to Professional Social Work (3-0).** This introductory course will enable students to become familiar with the profession of Social Work and its avenues of practice. Students will examine how social services enhance the well-being of people and promote social and economic justice. The history of the Social Work profession and exposure to a variety of current professional social workers working in diverse agencies and milieus will be part of the overall course content.

**SOC 4304 Criminology (3-0).** A study of the factors that contribute to crime, criminological theories, criminal types, research methods, types of crimes, and crime trends. This course is cross referenced with Criminal Justice 4304.

**SOC 4305 Social Deviance (3-0).** The study of nonconformity to social norms. The causes of deviance and the role the deviant plays in society.

**SOC 4309 Readings and Research (3-0).** Selected readings or research projects to be offered as individual study to meet student needs. May be repeated once for credit with departmental approval.

**SOC 4310 Special Topics in Sociology (3-0).** Selected topics in Sociology. May be repeated for credit when the topic varies.

**SOC 5303 Multicultural Society (3-0).** Analysis of the concepts of "culture" and "social system" as treated in sociological literature combined with the study of social behaviors of distinct culture groups in the United States.

**SOC 5304 Readings and Research in Sociology (3-0).** A reading and research course for graduate students. May be repeated for credit with the approval of the department.

**SOC 5305 Special Topics in Sociology (3-0).** Selected topics in the area of Sociology. May be repeated when topic varies.

## **SPANISH (SPAN/SPN)**

**SPAN 1411 (SPAN 1411) Beginning Spanish I (4-0).** This is an introductory course intended for students with little or no previous exposure to the Spanish language. Its main emphasis is to present essential vocabulary and grammar and to develop communicative and comprehension skills in listening, speaking, reading, and writing. The course includes an introduction Hispanic culture.

**SPAN 1412 (SPAN 1412) Beginning Spanish II (4-0).** This course is a continuation of Spanish 1411. It introduces new grammatical structures, idiomatic expressions, and topics which include new vocabulary. It continues to build the foundational skills of listening, speaking, reading, writing, and cultural awareness with emphasis on conversation, pronunciation, fluency, and vocabulary. Prerequisite SPAN 1411 or equivalent.

**SPAN 2311 (SPAN 2311) Intermediate Spanish I (3-0).** For the non-native speaker of Spanish, Spanish 2311 is the continuation of Spanish 1411 and 1412. Native speakers should begin their study of Spanish with 2311. This course includes a review of grammatical patterns and development of speaking, listening, reading, and writing skills through exploring the many facets of Hispanic culture.

**SPAN 2312 (SPAN 2312) Intermediate Spanish II (3-0).** This course is a continuation of Spanish 2311. It provides additional study of grammar and Hispanic culture with emphasis on written composition and oral presentations. NOTE: Those whose native language is Spanish, or those who have otherwise acquired a speaking knowledge of Spanish, should begin their study of Spanish with Spanish 2311. The course will meet the needs of those who have obtained a speaking knowledge of Spanish with little or no formal study. Successful completion of such a course will prepare the student to register for 2312.

**SPAN 3301 Advanced Spanish Grammar (3-0).** A comprehensive analysis of the major grammatical features of Spanish designed to increase student competence and command of written and spoken Spanish.

**SPAN 3302 Advanced Spanish Composition (3-0).** The main objective of this course is the development and practice of writing skills in order to foster the ability to write coherent and meaningful essays in Spanish.

**SPAN 3304 Introduction to Spanish Literature (3-0).** An introduction to Spanish literature, covering such areas as literary style, figurative language, literary genres, versification, aesthetics, and text analysis.

**SPAN 3308 Studies in Spanish (3-0).** Mexican literature from pre-Columbian times to the present. Representative literary works of major literary currents (Neoclassicism, Romanticism, Modernism, etc.) will be read and analyzed. May be repeated for credit when course subject content varies.

**SPAN 3310 Spanish Literature I (3-0).** A survey of major Spanish authors and works from the 11th to the 17th centuries. Prerequisite: Spanish 2312 or consent of the instructor.

**SPAN 3311 Spanish Literature II (3-0).** A survey of major Spanish authors and works from the 18th to the 20th centuries. Prerequisite: Spanish 2312 or consent of the instructor.

**SPAN 3314 Culture and Civilization of Spain (3-0).** An overview of the development of Spanish culture from ancient times to the present, using the perspectives of history, art, and literature.

**SPAN 3315 Hispanic Civilization and Culture: Spain (3-0).** An overview of the development of Spanish culture from ancient times to the present, using the perspectives of history, art, and literature. Prerequisite: Spanish 2312 or consent of the instructor.

**SPAN 3316 Culture and Civilization of Spanish America (3-0).** An overview of the development of Spanish American culture from ancient times to the present, using perspectives of history, art, and literature.

**SPAN 3317 Modern Spanish Civilization (3-0).** This course deals with the study of Spanish civilization since the XVI century to modern day Spain. The concentration will be in the Spanish presence in the Americas. Prerequisite: Spanish 2312 or consent of instructor.

**SPAN 3318 Contemporary Latin American Civilization (3-0).** This course will study the development and growth of Latin American countries from the XIX century to present day. A socio-economical, literary and political view of contemporary Latin America will be presented. Prerequisite: Spanish 2312 or consent of instructor.

**SPAN 4301 Special Topics in Spanish (3-0).** Topics include specific areas of studies in Spanish and will be announced in the curricular schedule for the semester in which they are offered. May be repeated for credit when topic varies. Prerequisites: SPAN 1411, 1412, 2311, 2312

**SPAN 4304 The Spanish American Novel (3-0).** A study of the Spanish American novel from its origins to present. Students read novels representative of literary movements of the period and discuss and evaluate them in class.

**SPAN 4306 Modern Drama (3-0).** A study of the Spanish drama of the 19th and 20th centuries. The student will read dramas representative of the different types and movements of the period and will discuss them in class and in written form. Class discussion conducted in Spanish. Prerequisite: Spanish 2312 or consent of the instructor

**SPAN 4307 Readings and Research (0-3).** Directed studies on specific topics of Spanish language, Spanish literature and Spanish American literature. May be repeated for credit when the topic varies. Prerequisite: Spanish 2312 or consent of instructor.

**SPAN 4310 Spanish American Literature I (3-0).** A survey of major Spanish American authors and works from 1492 to 1830. Prerequisite: Spanish 2312 or consent of the instructor.

**SPAN 4311 Spanish American Literature II (3-0).** A survey of major Spanish American authors and works from 1830 to the present. Prerequisite: Spanish 2312 or consent of the instructor.

**SPAN 4312 Teaching Spanish (3-0).** A study of methods and materials used in teaching Spanish from Grades K – 12. The course presents ideas and techniques for teaching grammar, composition, literature, and culture. Prerequisite: Spanish 2312 or consent of the instructor.

**SPAN 4315 Introduction to Translation I (3-0).** Part one of introductory course in Spanish/English translation covering both theory and practice of translation. Prerequisite: SPAN 1411, 1412, 2311, 2312

**SPAN 4316 Introduction to Translation II (3-0).** Part two of introductory course in Spanish/English translation covering both theory and practice of translation. Prerequisites: SPAN 1411, 1412, 2311, 2312

**SPAN 5303 Studies in Spanish American Literature (3-0).** Selected authors, works, and genres from Central American, South American, and Mexican literature, including such periods as Colonial, Nineteenth Century, and Modern. Course may be repeated for credit when topic varies.

**SPAN 5309 Readings and Research (3-0).** Individually guided research in Spanish or Spanish-American literature or in Spanish language and linguistics study. May be repeated for credit when the topic varies.

**SPN 3301 Advanced Spanish Grammar (3-0).** A comprehensive analysis of the major grammatical features of Spanish designed to increase student competence and command of written and spoken Spanish.

**SPN 3302 Advanced Spanish Composition (3-0).** The main objective of this course is the development and practice of writing skills in order to foster the ability to write coherent and meaningful essays in Spanish.

**SPN 3303 The Contemporary Spanish Novel (3-0).** A study of the Spanish novel of the 20th and 21st Centuries. Students read and discuss in oral and written form novels which represent the major literary movements and styles of their time.

**SPN 3304 Introduction to Spanish Literature (3-0).** An introduction to Spanish literature, covering such areas as literary style, figurative language, literary genres, versification, aesthetics, and text analysis.

## **SUSTAINABLE RANCH MANAGEMENT (RCH)**

**RCH 1301 Animal Husbandry I (2-2).** A hands on introductory course in applied animal husbandry that covers the basics of healthy and sustainable management of cattle, sheep, goats, and horses.

**RCH 2101 Ranch Management Skills (0-2).** This course covers basic skills necessary for successful ranch management, including communication, observation, record keeping, and basic implementation of ranch improvements. May be repeated for credit.

**RCH 3301 Sustainability in Agriculture (2-2).** This course provides an in-depth look at environmental, social, and economic sustainability on a global to local scale. Emphasis will be placed on how ranchers and land managers can provide for long-term sustainability through planning and implementation of sustainable practices.

**RCH 3302 The Outdoor Hospitality Industry (2-2).** An overview of the outdoor hospitality industry including ecotourism and hunting. The course will cover all aspects from guiding and interpretation to providing housing and meals as well as business analysis of cost benefit for providing different

services within the framework of a ranch business and a stand-alone business.

**RCH 4101 Advanced Ranch Management Skills (0-2).** This course covers advanced skills necessary for successful ranch management, including communication, landscape level planning, long-term sustainability planning, and implementation of ranch improvements. May be repeated for credit.

**RCH 4301 Ranch Ecosystem Management (2-2).** This course covers ranch management through an ecosystem approach, with an emphasis on sustainable management of the entire system including abiotic factors such as soil and water; biotic factors such as plants, livestock, and wildlife, and social factors such as job satisfaction and economic benefit.

**RCH 4302 Ranch Maps & Mapping (2-2).** This course gives an overview of tools available for mapping a ranch to inform decision-making and maintaining records of capital equipment and range improvements. Emphasis will be placed on open source mapping solutions and mobile platforms.

**RCH 4601 Ranch Internship (0-12).** A directed internship course that will entail working on one or multiple working ranches. The experience will be directed by a faculty member who will aid the student in the selection of the ranch or ranches and ensure a broad range of experience through the internship.

## **THEATRE (THEA)**

**THEA 1112 Musical Theatre Performance (0-2).** Theatrical instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester.

**THEA 1120 (DRAM 1120) Theatre Practicum I (0-3).** Practical course designed for freshman students who do acceptable work in the dramatic productions of the department.

**THEA 1121 (DRAM 1121) Theatre Practicum II (0-3).** Practical course designed for freshman students who do acceptable work in the dramatic productions of the department.

**THEA 1305 (DANC 1305) Ballet I (2-2).** This course is an introduction to classical ballet techniques and terminology including barre exercise, center floor work, and across-the-floor combinations.

**THEA 1310 (DRAM 1310) Introduction to the Theatre (3-0).** A survey of the elements of theatre and how they were formed. What makes theatre? Where has it come from and what is the future?

**THEA 1322 (DRAM 1322) Stage Movement (1-2).** Examination and practical application of the styles of movement for the performing artist. Activities and exercises for the performing artist. Activities and exercises to improve posture, agility, vision, endurance and personal awareness.

**THEA 1351 (DRAM 1351) Acting I (2-2).** A practical laboratory of the principles and technique of acting for the stage.

**THEA 1352 Acting II (2-2).** Study and practice of intermediate and advanced techniques used by actors in the development of good stage habits character development. Prerequisite: THEA 1351 or instructor permission

**THEA 1372 Costume Construction (2-2).** A beginning overview of the vocabulary and basic sewing methods of theatrical costuming. TCCNS Equivalent: DRAM 1342

**THEA 2112 Musical Theatre Performance (0-2).** Theatrical instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sign confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

**THEA 2120 (DRAM 2120) Theatre Practicum III (0-3).** Practical course designed for sophomore students who do acceptable work in the dramatic productions of the department.

**THEA 2121 (DRAM 2121) Theatre Practicum IV (0-3).** Practical course designed for sophomore students who do acceptable work in the dramatic productions of the department.

**THEA 2304 Oral Interpretation (3-0).** A course in the development and use of oral communication performance skills in theatre or communication secondary education, with emphasis on script development for prose, poetry and one-act play UIL competition. Additional emphasis on projection, articulation, breath control, resonance, variety, interpretation and body movement.

**THEA 2305 Topics in Theatre (3-0).** A course dealing with topics in the study of theatre, such as "Women in Theatre," "Introduction to Design," and "Stage Management," etc. May be repeated when the topics vary.

**THEA 2307 Stage Combat (1-2).** The practical application of the techniques used in the choreography of stage combat, including unarmed combat techniques and various style of weaponry.

**THEA 2310 Introduction to Theatrical Design (2-2).** A fundamental course in the basic aspects of all theatrical design: including scenic, costume, lighting, sound and property design. Course projects may include fabrication, modeling, computer-aided design, rendering, and construction.

**THEA 2311 Stage Management (2-1).** A course encompassing the basic theatrical stage management skills and procedures, such as budgeting scheduling and personnel management, for the pre-rehearsal, rehearsal and performance periods of a production.

**THEA 2331 (DRAM 2331) Stagecraft (2-2).** A lecture-laboratory course designed to give the student a fundamental knowledge of the theory and techniques of scenic construction and lighting.

**THEA 2336 (DRAM 2336) Voice for the Theatre (3-0).** Vocal techniques, including diction and dialect, for performing on the stage.

**THEA 3101 Theatre Workshop (0-3).** Practical course designed for junior students who do acceptable work in the dramatic productions of the department. May be repeated for credit, but not more than once for theatre majors and minors.

**THEA 3102 Theatre Workshop (0-3).** Practical course designed for junior students who do acceptable work in the dramatic productions of the department. May be repeated for credit, but not more than once for theatre majors and minors.



**THEA 3112 Musical Theatre Performance (0-2).** Theatrical instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sing confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

**THEA 3302 The History of Theatre I: Greek Theatre through Renaissance Theatre (3-0).** A survey of the important people, works, and developments in theatre history from the ancient Greeks through the European Renaissance.

**THEA 3303 Repertory Theatre. (0-5).** Practice and theory in the problems of management, production, and acting in repertory theatre. May be repeated for credit, but not more than once for theatre majors or minors.

**THEA 3304 Special Topics (3-0).** A course dealing with topics in the study of theatre, such as theatrical design, mask characterizations, specialized acting methods or regional theatre history, etc. May be repeated when topic varies.

**THEA 3305 Theatrical Design Research (0-3).** Individual research on selected subjects to meet student needs and interests in theatre. May be repeated when topic varies.

**THEA 3306 The History of Musical Theatre (3-0).** The history of the musical theatre from operetta to contemporary musicals. Exposure and study of major and minor works of the musical stage.

**THEA 3307 Musical Comedy Workshop. (0-5)** Practical training in the technique and style of performing scenes and songs from musical theatre. May be repeated for credit, but not more than once for theatre majors or minors.

**THEA 3308 Acting III: Styles (2-2).** An advanced study of acting styles and periods for the stage. Prerequisite: THEA 1352

**THEA 3309 Stage Make-up (1-2). QEP MAPPED COURSE** A practical laboratory of the principles and techniques of stage and film make-up.

**THEA 3310 Creative Dramatics and Children's Theatre (2-1).** The study of the effects and techniques of creative dramatics in the classroom and the study and understanding of children's theatre.

**THEA 3311 Playwriting (1-2).** The study and practice of the techniques of playwriting from scene work to the completion of a long one-act play.

**THEA 3312 Script Analysis (3-0).** A study of the principles of various styles and periods of dramatic literature, involving a history of criticism from Aristotle to the present. Representative plays will be analyzed for theme, structure, characterization and dialogue with a view to their influences on contemporary theatre. Emphasis is placed on written student criticism and evaluation of plays. Writing enhanced course. Prerequisite: English 1302



**THEA 3313 Scenic Design (2-1). QEP MAPPED COURSE** The theory and practical application of the scenic designer's process from conception to presentation of design and an understanding of the scenic designer's responsibilities and duties as a member of the production team and as the head of the scenic design team. Prerequisite: Theatre 2310

**THEA 3314 Costume Design (2-1).** The theory and practical application of the costume designer's process from conception to presentation of design and construction and an understanding of the costume designer's responsibilities and duties as a member of the production team and as the head of the costume design team. Prerequisite: Theatre 2310

**THEA 3315 Lighting and Sound Design (2-1).** The theory and practical application of the lighting and sound designer's process from conception to presentation of design and an understanding of the designer's responsibilities and duties as a member of the production team and as the head of the lighting or sound design team.

**THEA 3316 The History of Theatre II: The Theatre of the English Restoration through Contemporary Theatre (3-0).** A survey of the important people, works, and developments in theatre history from the English Restoration through contemporary theatre.

**THEA 3317 Acting IV: Improvisation (0-6).** In this lab, students develop improvisational skills including plot, character, and dialogue. Students will learn approaches to assist with listening and spontaneity. Prerequisite: THEA 1352

**THEA 3318 Directing I (2-1).** The technology and application of directing for the stage. Prerequisite: THEA 3312.

**THEA 3319 Producing (2-2).** A comprehensive study of the theory and practice of film/video production.

**THEA 3321 Screenwriting (3-0).** An introduction to screenwriting format, craft, & technique, with an emphasis on the fundamentals of storytelling. Prerequisite: ENG 1302

**THEA 3322 Screenwriting II (3-0).** Screenwriting II is the continuation of Screenwriting I. Over the semester, students will build upon the foundational skills in Screenwriting I to complete a feature screenplay, one-hour television pilot, two episodes of half-hour comedy, or a web series. Screenwriting I or instructor permission required to enroll.

**THEA 4101 Theatre Workshop (0-3).** Practical course designed for junior students who do acceptable work in the dramatic productions of the department. May be repeated for credit, but not more than once for theatre majors and minors.

**THEA 4102 Theatre Workshop (0-3).** Practical course designed for junior students who do acceptable work in the dramatic productions of the department. May be repeated for credit, but not more than once for theatre majors and minors.

**THEA 4112 Musical Theatre Performance (0-2).** Theatrical instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sing confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

**THEA 4304 Directing II (2-1). QEP MAPPED COURSE** Continued study of the theory and application of directing for the stage from the directorial vision to the production of a one-act play. Prerequisite: THEA 3318

**THEA 4305 Studies in Drama (0-3).** Directed individual study and practice in a selected area of drama. May be repeated for credit when topic varies.

**THEA 4306 Acting V: Acting for the Camera (2-2).** A study of acting styles specific to film and television. Emphasis on sense memory, scene work, audition techniques, and preparation to enter the industry. Prerequisite: THEA 1352

**THEA 4307 Senior Project (0-4).** An intensive, independent study of a selected area of theatre, such as directing, writing, or designing of a full-length play or acting in a one-person show, by those seeking a theatre degree or theatre certification. An oral comprehensive examination and exit survey are additional requirements.

**THEA 4308 Acting VI: Advanced Acting for the Camera (0-6).** This lab explores acting techniques affiliated with mixed media: film, video, and game design development. Prerequisite: THEA 3308.

**THEA 5112 Musical Theatre Performance (0-2).** Advanced instruction in the preparation and performance music of the musical theatre idiom. Performances may be staged or sung in a concert setting, depending on the repertoire for the given semester. Prerequisite: Students must be able to accurately match pitch and sing confidently alone or with a group. Placement auditions may be held at the beginning of the semester.

**THEA 5303 Seminar in Theatre (2-2).** An advanced study of problems of analysis, design, rehearsal and performance in theatre. May be repeated for credit when topic varies.

**THEA 5304 Theatre Workshop (1-4).** An advanced study of problems of analysis, design, rehearsal and performance in modern theatre and classic revivals. May be repeated for credit.

**THEA 5305 Individual Research (0-4).** Directed individual research in selected areas of theatre and dramatic arts. May be repeated for credit when topic varies.

## **WOMEN'S STUDIES (WS)**

**WS 2301 Introduction to Women's Studies (3-0).** The course enhances student's knowledge, interest, and understanding of the contributions, challenges, needs, and aspirations of women and the way that gender shapes the lives of both women and men. It also seeks to re-examine material from much of the rest of the curriculum with a focus on women's perspectives and an awareness of the gender system, and as such, we will also focus on several different issues of masculinity. Therefore, half of the course will focus on women, the other on men. The "modest proposal" in Women's Studies then is study of history, language, literature, and culture from new and illuminating perspectives

**WS 2302 Introduction to Masculinities and Gender Studies (3-0).** This course explores how boys and men negotiate (un)successful identities regarding violence, popular culture, higher education, and personal and work relationships. We will explore a variety of material including; selections that are theory-based, examples from American literature, and relative audio/visual material.

**WS 3301 Topics in Women's Studies (3-0).** Studies of specific topics in Women's Studies, such as Hispanic Women, Women in Culture and Society, Women in Modern America. May be repeated for credit when topic varies.

**WS 4310 Senior Colloquium in Women's Studies (3-0).** Required capstone course for the Women's Studies minor. Students consult with Women's Studies Coordinator to select an internship, mentoring project, portfolio, or other special project for the course. Prerequisite: WS 2301, six additional semester hours in Women's Studies, approval of Women's Studies Coordinator.

**WS 5301 Introduction to Women's and Gender Issues (3-0).** An interdisciplinary approach to women's and gender studies including historical, legal, psychological, political, scientific, and aesthetic issues.

**WS 5302 Topics in Women's Studies (3-0).** Studies of specific topics such as Women's Autobiographical Writing, Communication and Gender, Women and the Arts, Comparative Women's History, Gender and Criminal Justice, Postcolonial Women Writers, Global Feminisms. May be repeated for credit when topic varies.