# Sul Ross State University 

## 2022-2023 <br> Undergraduate and Graduate Catalog



## Volume 94

www.sulross.edu
Alpine - East Hwy 90 - Alpine, Texas 79832 - (432) 837-8011
Del Rio - 205 Wildcat Drive - Del Rio, Texas 78840 • (830) 703-4808
Eagle Pass • 3107 Bob Rogers Drive • Eagle Pass, Texas 78852 • (830) 758-5005
Uvalde - 2623 Garner Field Drive • Uvalde, Texas 78852 - (830) 279-3004

## FOREWORD

Sul Ross State University celebrates its current enrollment of over 2,000 students and seeks to provide all students with a variety of courses, services and supports to create a vibrant university experience. This combined course catalog enumerates all of these opportunities that are available for students, whether they are enrolled in Alpine or any of the three off-campus instructional sites: Del Rio, Eagle Pass or Uvalde.

## 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 Alpine is accredited by the Commission of Collegiate Nursing Education (CCNE).

## 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
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.

## TABLE OF CONTENTS

Official Academic Calendar, 2022-2023 .....  6
Board of Regents and Administration ..... 14
General Information ..... 16
Tuition and Course/Lab Fees ..... 24
Student Life Services ..... 29
Undergraduate Admissions ..... 41
General Academic Regulations ..... 47
Academic Organization and Degree Programs ..... 98
College of Agricultural, Life \& Physical Sciences. ..... 108
Mathematics \& Computer Science
Natural Science
Nursing
College of Education and Professional Studies
Business Administration
Education
Homeland Security and Criminal Justice
Joaquin Jackson Law Enforcement Academy
Kinesiology and Human Performance
College of Literature Arts and Social Sciences
Academic Center for Excellence
Behavioral and Social Sciences
Languages and Literature
Visual and Performing Arts
Rio Grande College
Business Administration
Education
Humanities
Natural and Behavioral Sciences
Graduate Catalog
Graduate Information
Animal Science
Behavioral \& Social Sciences
History
Political Science
Public Administration
Biology, Geology \& Physical Sciences
Biology
Geology
Business Administration
Education
Educational Diagnostician
Education General
Educational Leadership
Instructional Technology
Fine Arts \& Communication
Homeland Security and Criminal Justice
Criminal Justice
Homeland Security
Kinesiology \& Human Performance
Health \& Human Performance
Sports Administration
Languages \& Literature

## English

Liberal Arts
Natural Resource Management
Faculty
University Courses
Index

## University Calendar

Official Academic Calendar 2022-2023

FALL 2022

| August | Core Curriculum, Curriculum Change and Degree Change forms - faculty may access forms via Qualtrics posted on University Curriculum Committee website |
| :---: | :---: |
| August 1, Monday | College deans to submit recommendations for associate graduate faculty to the dean of graduate studies |
|  | Curriculum changes approved in the spring are effective fall 2022; update individual web pages |
|  | Athletes identified in SIS |
| August 11-12, Thursday \& Friday | Texas State University System Board of Regents meeting at TBA |
| Aug 15, Monday | Faculty to report back on campus - Faculty Contracts begin |
| August 19, Friday | Payment deadline for students who pre-registered, 4 p.m. |
|  | Residence Halls: Move-In day, 10 a.m-4 p.m. by housing assignment |
|  | Lobo Days for new and transfer students |
|  | Regular registration ends 7 pm |
| August 20, Saturday | Residence Halls: Move-In day |
|  | Lobo Days for new and transfer students |
| August 21, Sunday | Residence Halls: Move-In day |
|  | Lobo Days for new and transfer students |
|  | New Student Convocation, 6:30 p.m. |
| August 22, Monday | First day of classes, 16 week and 1st 8-week term |
|  | Late registration and schedule changes begin; Late Registration Fees Apply |
|  | Residence Halls: 5 p.m. deadline to Move-In for fall housing assignment |
| August 24, Wednesday | Tenure and promotion review - provost contacts the Promotion and Tenure Review Council with the number of promotions available |
|  | Last day to receive 80\% refund for students withdrawing from the institution for 1 st 8 -week course |
| August 25, Thursday | Last day for late registration and schedule changes; ends 7 pm ; Payment deadline for students who late registered/added classes |
| August 26, Friday | Submit thesis to committee chair |
|  | Last day to receive 80\% refund for students withdrawing from the institution for 16-week course |
|  | Payment Deadline for students who late registered/added classes |
| August 29, Monday | Last day to receive 50\% refund for students withdrawing from the institution for 1 st 8 -week course |
| August 30, Tuesday | Last day to drop 1st 8-week course without creating an academic record |


| September 2, | Last day to receive 70\% refund for students withdrawing from the institution for 16-week course |
| :---: | :---: |
| September 5, Monday | Labor Day holiday, no classes |
| September 7, Wednesday | Twelfth class day, 16-week term |
|  | Last day to drop a 16-week term course without creating an academic record |
| September 9, Friday | Spring schedules due to college deans |
| September 12, Monday | Last day to receive 50\% refund for students withdrawing from the institution for 16 -week course |
| September 14, Wednesday | Annual student cohort posting |
| September 15, Thursday | Students in Self-Supporting Courses and Programs - Initial Submission Due Date |
| September 16, Friday | Last day for students enrolled in Education block courses to drop a course and receive a 'W' |
|  | Submit thesis to committee members |
| September 19, Monday | Last day to receive 25\% refund for students withdrawing from the institution for 16-week course |
|  | Faculty Assembly meeting |
| September 23, Friday | Last day for students enrolled in 1st 8-week courses to drop a course and receive a 'W' |
| October 10, Monday | Core Curriculum, Curriculum Change and Degree Change forms - college dean reviews; signs off or raises questions |
| October 14, Friday | Final exams, $1^{\text {st }} 8$-week term |
|  | Tenure and promotion review- vitae and dossier to department chair. Dossier to be forwarded to departmental evaluation committee |
|  | Last day of registration for 2nd 8-week term ends at 7 pm |
|  | Core Curriculum, Curriculum Change and Degree Change forms - all reviewed/signed documents are posted on University Curriculum Committee SharePoint site by IR |
| October 15, Saturday | Students in Self-Supporting Courses and Programs Certification Date |
|  | Student Transfer Report - Initial Submission Due Date |
| October 17, Monday | Final grades for 1st 8-week term students submitted by noon |
|  | Mid-term, 16-week term |
|  | Classes begin, 2nd 8-week term |
|  | Late registration and schedule changes begin for 2nd 8 weeks; Late Registration Fees Apply |
|  | Transcript due for transfer students with outstanding articulations to be completed before Spring Registration begins |
| October 18, Tuesday | Core Curriculum, Curriculum Change and Degree Change forms - access given to the University Curriculum Committee SharePoint site to committee members |
|  | Faculty Assembly meeting |
| October 19, Wednesday | Last day to receive $80 \%$ refund for students withdrawing from the institution for 2 nd 8 -week course |
| October 20, Thursday | Last day for schedule changes and late registration, 2nd 8-week term; ends at 7 pm |
| INDEX | 7 IOC |


| October 24, Monday | Last day to drop 2nd 8-week course without creating an <br> academic record |
| :--- | :--- |
|  | Last day to receive 50\% refund for students withdrawing from <br> the institution for 2nd 8-week course |
| October 28, Friday | Submit signed hard copy and electronic copy of thesis to the <br> thesis coordinator in the College of Graduate Studies |
|  | Core Curriculum, Curriculum Change and Degree Change forms <br> - University Curriculum Committee meets to act on submitted <br> changes |
| November 1, Tuesday | Spring Registration begins |
| November 8, Tuesday | Last day for instructor initiated drop for excessive <br> absences. Must reach the college dean's office by 4pm on <br> November 8th |
| November 11, Friday | Veteran's Day - Holiday |
| November 14, Monday | Last day to withdraw from the 16-week course/term with a grade <br> of 'W'. Drops must be processed and in the university registrar's <br> office by 4 p.m. |
|  | Last day to apply for May graduation without a late fee |
| Tenure and promotion review - applications, dossiers and |  |
| recommendations from the Evaluation Committee chairperson to |  |
| the college dean |  |


| December 7, Wednesday | Final Examinations, end of term, $2^{\text {nd }} 8$-week term |
| :---: | :---: |
| December 8, Thursday | Final grades for graduating students due; grades must be submitted by noon |
| December 9, 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 10, Saturday | Residence Halls: Close at noon for all residents; except director approvals |
|  | Fall Commencement - Location TBD, 3:30 p.m. |
| December 12, Monday | Final grades for continuing students due; grades must be submitted by noon |
| December 13, Tuesday | Post Enrollment Requisite Checking (PERC) |
|  | SPRING 2023 |
| January 3, Tuesday | University opens - staff report to campus; Core Curriculum, Curriculum Change and Degree Change forms - provost submits report to the president |
| January 11, Wednesday | Faculty to report to campus |
| January 13, 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 |
|  | Regular registration ends at 7 pm |
| January 14-15, Saturday \& Sunday | Residence Halls: Move-In 10 a.m.-4 p.m. |
| January 16, Monday | Martin Luther King, Jr. holiday |
| January 18, Wednesday | First day of classes, 16 week and $1^{\text {st }} 8$-week term |
|  | Late registration and schedule changes begin at 8:00 am; Late Registration Fees Apply |
|  | Residence Halls: 5 p.m. deadline to Move-In for spring housing assignment |
| January 20, Friday | Last day to receive $80 \%$ refund for students withdrawing from the institution for 1 st 8 -week course |
| January 23, Monday | Last day for late registration and schedule changes ends at 7 pm Payment Deadline for students who late registered/added classes |
| January 24 Tuesday | Last day to receive $80 \%$ refund for students withdrawing from the institution for 16 -week course |
| January 25, Wednesday | Last day to drop $1^{\text {st }} 8$-week course without creating an academic record |
|  | Last day to receive 50\% refund for students withdrawing from the institution for 1 st 8 -week course |
| January 27, Friday | Submit thesis to committee chair |
| January 31, Tuesday | Last day to receive $70 \%$ refund for students withdrawing from the institution for 16 -week course |
|  | Federal Regulations for Award Year 23-24 due |


| February | Core Curriculum, Curriculum Change and Degree Change forms - TSUS Board of Regents reviews proposed curriculum changes |
| :---: | :---: |
| February 2, Thursday | Twelfth class day, 16-week term |
|  | Last day to drop a 16-week term course without creating an academic record |
| February 6, Monday | Summer and fall class schedules due to the college deans |
| February 7, Tuesday | Last day to receive 50\% refund for students withdrawing from the institution for 16-week course |
| February 10, Friday | 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 |
|  | Tenure and promotion review - applications, dossiers and recommendations from the college dean and from College Review Committee to the Promotion and Tenure Council |
| February 13, Monday | Fall class schedules to the university registrar |
| February 14, Tuesday | Last day to receive $25 \%$ refund for students withdrawing from the institution for 16 -week course |
|  | Housing Application on |
|  | Scholarship Application on; initial reviews by Colleges |
|  | F/A Packaging begin for New Students |
| February 16-17, Thursday \& Friday | Texas State University System Board of Regents meeting at TBA |
| February 20, Monday | Annual Report on Teaching/Job Performance; Form FE-3 submitted to the college deans |
|  | Last day for students enrolled in 1st 8-week courses to drop a course and receive a 'W' |
|  | Submit thesis to committee members |
|  | Faculty Assembly meeting |
| March | Core Curriculum, Curriculum Change and Degree Change forms - approved changes to THECB; university registrar implements changes into banner; changes effective fall 2023 |
|  | CATALOG: Fall 2023-Spring 2024 made available online |
|  | Financial Aid Packaging for Continuing Students begins |
| March 10, Friday | Annual Report on Teaching/Job Performance; submitted to the Provost |
|  | Final exams, 1st 8-week term |
|  | Tenure and promotion review - applications, dossiers and recommendations from the Promotion and Tenure Council to the Joint Council on Faculty Affairs |
|  | Last day of registration for 2nd 8 weeks. Ends at 7 pm |
| March 13-17, Monday Friday | Spring Break. No Classes. |
| March 15, Wednesday | Doctoral Exception Report - Initial submission due date. |
| March 20, Monday | Final grades for 1st 8-week term students submitted by noon |
|  | Mid Semester, 16-week term |

Transcript due for transfer students with outstanding articulations to be completed before Fall/Summer Registration begins
Classes begin, 2nd eight-week term
Late registration and schedule changes begin; Late Registration Fees Apply
Submit signed hard copy and electronic copy of thesis to the thesis coordinator in the College of Graduate Studies

| March 21, Tuesday | Faculty Assembly meeting |
| :--- | :--- |
| March 22, Wednesday | Last day for schedule changes, 2nd 8-week term. Ends at 7 pm |


|  | - |
| :--- | :--- |
|  | Last day to receive 80\% refund for students withdrawing from |
| the institution for 2nd 8-week course |  |


| April 3, Monday | Summer/Fall Registration begins |
| :--- | :--- |
| April 7, Friday | Good Friday holiday |
| April 10, Monday | Tenure and promotion review - applications, dossiers and |
|  | recommendations from the Joint Council on Faculty Affairs to the <br> Provost |
| April 11, Tuesday | Last day for instructor initiated drop for excessive <br>  <br>  <br>  <br>  <br> absences. Must reach the college dean's office by 4 p.m. on <br> April 11th. |
|  | Last day to withdraw from the 16-week course/term with grade of <br> 'W'. Drops must be processed and in the university registrar's <br> 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
Tenure and promotion review - applications, dossiers and recommendations from the Provost to the President (recommendations will be included in the May TSUS Board of Regents meeting)

| April 15, Saturday | Doctoral Exception Report - Certification date. |
| :--- | :--- |
| April 17, Monday | Honors Convocation, 7 p.m., Marshall Auditorium |
|  | Faculty Contracts due to faculty |
|  | Academic Evaluation: Completion of Student Appraisal of <br> Faculty (Form FE-2) for spring (to be completed 4/17-4/21) |
|  | Faculty Assembly meeting |
| April 21, Friday | Submit electronic copy of revised thesis to the thesis coordinator <br> in the College of Graduate Studies |
| 24, Monday | Last day for students enrolled in 2 <br> nd <br> course and receive a 'Week courses to drop a |

April 28, Friday Submit PDF copy of the thesis to ProQuest for review and online submission

| May 1, Monday | Scholarships awarded; students notified |  |
| :--- | :--- | :--- |
| May 8, Monday | Faculty Contracts due from faculty to Academic Affairs |  |
| May 10, Wednesday | Last class day before finals, 16-week term |  |
| May 11, Thursday | Dead day, 16-week term |  |
| INDEX | 11 | TOC |


| May 12, 15-17 Friday, Monday-Wednesday | Final Examinations - end of term, 16-week term |
| :---: | :---: |
| May 17, Wednesday | Final Examinations - end of term, 2nd 8-week term |
| May 19, 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 20, Saturday | Residence Halls: Close at noon for everyone except director approvals |
|  | Spring Commencement RGC, Location - TBD, 3:30 p.m. |
| May 22, Monday | Final grades for continuing students due; grades must be submitted by noon |
|  | Submit thesis to committee chair |
| May 26, Friday | Faculty Contracts end |
| SUMMER 2023 |  |
| June 2, Friday | Changes to Apply Texas/PUSH Process due for Fall 2024 |
|  | Payment Deadline for students who pre-registered. |
|  | Last day to register without a late fee, full term and session I. Ends at 7 pm . |
| June 4, Sunday | Residence Halls: Summer I students check in to residential halls, full term and session I |
|  | Submit thesis to committee members |
| June 5, Monday | First day of classes, full term and session I |
|  | Late registration and schedule changes begins, full term and session I; Late Registration Fees Apply |
|  | Last day to receive $80 \%$ refund for students withdrawing from the institution, session I |
| June 6, Tuesday | Last day to receive $50 \%$ refund for students withdrawing from the institution, session I |
| June 7, Wednesday | Last day for late registration and schedule changes, full term and session I. Ends at 7 pm. |
|  | Payment Deadline for students who late registered/added classes |
|  | Last day to receive 80\% refund for students withdrawing from the institution, full session |
| June 8, Thursday | Fourth class day, session I (census) |
| June 12, Monday | Last day to receive $50 \%$ refund for students withdrawing from the institution, Full term |
| June 20, Tuesday | $12^{\text {th }}$ class day, full term (census) |
| June 22, Thursday | 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 22nd |
| June 28, Wednesday | Last day to drop a session I course with a 'W'. Drops must be processed and in the University Registrar's office by 4 p.m. |


| June 29, Thursday | Submit signed hard copy and electronic copy of thesis to the thesis coordinator in the College of Graduate Studies |
| :---: | :---: |
| July 4, Tuesday | Independence Day holiday |
| July 5, Wednesday | Dynamic Billing for Fall turned on; Bills available online for all students for Fall |
| July 7, Friday | 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. Ends at 7 pm. Payment Deadline for Summer Session II |
| July 10, Monday | First day of classes, session II |
|  | Late registration and schedule changes begin, session II; Late Registration Fees Apply |
|  | Session I students check out of residential halls |
|  | Final grades are due; grades must be submitted by noon, session I |
|  | Last day to receive 80\% refund for students withdrawing from the institution, session II |
| July 11, Thursday | Last day to receive 50\% refund for students withdrawing from the institution, session II |
| July 12, Wednesday | Last day for late registration and schedule changes, session II. Ends 7 pm. Payment Deadline for those who late registered/added classes |
| July 13, Thursday | Fourth class day, session II (census) |
|  | Last day for instructor initiated drop for excessive absences, full term. Must reach the college dean's office by 4 p.m. on July 13th |
| July 21, Friday | Submit electronic copy of revised thesis to the thesis coordinator in the College of Graduate Studies |
| July 25, Tuesday | Last day to drop a full-term course with a "W". Must reach the college dean's office by 4 p.m. on July 25th |
| July 27, Thursday | Mid-term, session II |
|  | Last day for instructor initiated drop for excessive absences, session II. Must reach the college dean's office by 4 p.m. on July $27^{\text {th }}$ |
| July 28, Friday | Submit PDF copy of the thesis to ProQuest for review and online submission |
| August 2, Wednesday | 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 10, Thursday | Final Examinations, end of term, full term and session II |
| August 11, Friday | 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 |

## BOARD OF REGENTS TEXAS STATE UNIVERSITY SYSTEM

Duke Austin, Chairman Houston
Garry Crain, First Vice Chairman The Hills
Alan Tinsley, Second Vice Chairman ..... Madisonville
Charlie Amato, Regent ..... San Antonio
Sheila Faske, Regent. Rose City
Don Flores, Regent El Paso
Nicki Harle, Regent ..... Baird
Stephen Lee, Regent ..... Beaumont
William F. Scott, Regent ..... Nederland
Camile Settegast, Student Regent Horseshoe Bay
SYSTEM ADMINISTRATION
Brian McCall, Chancellor Austin
Sean Cunningham, Vice Chancellor for Governmental Relations ..... Austin
Carol Fox, Chief Audit Executive ..... Austin
Daniel Harper, Vice Chancellor and Chief Financial Officer ..... Austin
John Hayek, Vice Chancellor for Academic and Health Affairs ..... Austin
Nelly R. Herrera, Vice Chancellor and General Counsel ..... Austin
Mike Wintemute, Vice Chancellor for Marketing \& Communications Austin
SUL ROSS STATE UNIVERSITY CENTRAL ADMINISTRATION
Carlos Hernandez, Ed.D. Interim President
Bernardo Canteñs, Ph.D. Executive Vice President and Provost
Bonnie Albright, Vice President for Finance and OperationsJacob Fuentes.Chief Information Officer
Jorge Garza, Ed.D. Vice President for Administrative Services \&
Chief Operating Officer, Rio Grande CollegeJim Goodman.Vice President for Advancement and Athletics
Robert Muñoz, Ed.DVice President for Workforce, Economic
Development and Strategic Partnerships
Jeanne Qvarnstrom, Ed.D. Assistant Vice President for Institutional Effectiveness
Yvonne Realivasquez, Ed.D Vice President for Enrollment Management
Ben Telesca, M.Ed. Vice President for Student AffairsAmanda WorkmanAthletic Director
SUL ROSS STATE UNIVERSITY ACADEMIC AND OTHER DEANS
and Social Sciences and Dean of Graduate Studies Brandy Snyder, M.S.

Dean of Students
Barbara Tucker, Ph.D.
Bonnie Warnock, Ph.D Dean College of Education and Professional Studies Physical Sciences

## ADMINISTRATIVE STAFF

|  |  |
| :---: | :---: |
|  |  |
|  |  |
| Michael Corbett, B.A., ..............................................Bursar/Director of Student Financial Account |  |
| Kendall Craig, M.S.............................................................. Executive Director for Title V \& Title II |  |
| Scott Cupp, ..................................................................................Director, Office of Internal Audit |  |
|  |  |
| Kent Dunegan |  |
| Betse Esparza, |  |
| Betsy Evans, M.Ag., ............................................ Director of Library and Research Technologies |  |
| Lucio Garcia-Zuazua, B.B.A., (RGC) ..............................Interim Director of Financial Assistance |  |
| Monica Gonzalez, M.S., .......................................................................Director of Gear Up Grant |  |
| udith | $r$ of Advising and Tutoring |
| Geraldine Goosen, Ph.D.........................................................Director Bachelor Science Nursing |  |
| Suzanne Harris, Ph.D. |  |
| George Hernandez, B.A., (RGC) |  |
|  |  |
| Robert Jacob, M.S. ..........................................Director of Facilities, Planning and Construction |  |
| Jessie Lara, B.B.A. .............................................................. Executive Director for Physical Plant |  |
| Greg Marsh, Ed.D. |  |
| Matthew Marsh, D.A |  |
| Kathy Moreno, _ ............................................................................... Director of Alumni Relations |  |
| Laura Nelson, B.A., (RGC) .......................Director of Enrollment Marketing and Public Relations |  |
| Tim Parsons, .............................................................................. Director of Title V PPOHA Grant |  |
| Elizabeth Peña, M.B.A., (Alpine/RGC) .............. Director of Small Business Development Center |  |
| Kara Poole, .............................................................................Director of Recreational Programs |  |
| Mike Powell, $\qquad$ Director of Herbarium Corina Ramirez, M.B.A. $\qquad$ Director of Accounting and Finance |  |
|  |  |
| Corina Ramirez, M.B.A. <br> Director of Accounting and Finance Delia Ramírez, M.B.A., (RGC) Director of Business Services |  |
| Michael Rendon .............................................................................................. University Registrar |  |
| Kathleen Rivers, M.A., M.S., ...................................................................Director of McNair Grant |  |
| Bryon Schroeder, M.A., ................................................... Director of Center for Big Bend Studies |  |
| Mary Schwartze Grisham, M.Ed., LPC.............Director of Counseling and Accessibility Services |  |
| Tonya Senne, Ph.D., (RGC) ..........................................................................Director of Education |  |
| Kathy Stein, Ph.D., ................................................... Director of Academic Center for Excellence |  |
| Shannon Stockbridge, M.S., .............................. Director of Enrollment Services and Technology |  |
|  | ctor of International Studies |

## GENERAL INFORMATION

This catalog provides information about the academic programs of Sul Ross State University to students, prospective students, faculty, and staff. Included are the academic calendars; information concerning admissions, degree requirements, academic regulations, and student services; a list of the faculty and administrative officers; and the undergraduate and graduate curriculum. Every effort has been made to make this catalog as complete and accurate as possible, and it has been prepared on the basis of the best information available at the time of publication. The University reserves the right to make changes to its contents as changes occur. Such changes will be made known to the administrative offices and the academic departments as they occur.
Students should refer to this catalog for course descriptions, degree requirements, and procedures for admission. The class schedule for each semester or summer session will provide details concerning registration and the courses to be offered.

## HISTORICAL BACKGROUND

Sul Ross State University is located in scenic Alpine, Texas, the county seat of Brewster County, at the gateway to the Big Bend Country. The Big Bend Country of Texas-a crucible of cultures: Indian, Spanish, Mexican, Anglo-is a multifaceted region encompassing vast expanses of the great Chihuahuan Desert, picturesque hills and mountains reaching to over eight thousand feet in altitude, rolling plains and lush grasslands, and a wide assortment of plants, wildlife, and geological features which annually attract over half a million visitors from throughout the world. These visitors share with the students and faculty of Sul Ross an environment that is free of pollution, warm in winter and cool in summer, and ideal for combining university studies with a variety of outside recreational activities. Located near Sul Ross are the unique and nationally well-known Big Bend National Park, scenic Davis Mountains and State Park, Fort Davis National Historic Site, University of Texas McDonald Observatory, Balmorhea State Park, and a number of historic towns and sites which vividly depict the region's diverse history.

Sul Ross State University opened in 1920 as a state supported Normal School for Teachers. In 1923 its name was changed to Sul Ross State Teachers College, and the first baccalaureate degrees were awarded in 1925. Master's degree programs were first offered in 1930. The institution's name was changed in 1949 to Sul Ross State College and again in 1969 to Sul Ross State University. Thirteen men have served as president of Sul Ross: Thomas Fletcher, Robert L Marquis, Horace W. Morelock, Richard M. Hawkins, Bryan Wildenthal, Norman L. McNeil, Hugh E. Meredith, C. R. "Bob" Richardson, Jack W. Humphries, R. Vic Morgan, Ricardo Maestas, William Kibler, and Pete Gallego.

The University's name honors Lawrence Sullivan "Sul" Ross, who was the son of a Waco, Texas, pioneer family and a popular soldier, governor, educator, and humanitarian. As a young man, Sul Ross attended Baylor University and graduated from Wesleyan University in Alabama. He participated in Indian campaigns in northern Texas and Indian Territory and served in the Texas Rangers with the rank of Captain. Upon the outbreak of the Civil War, Ross enlisted in the Confederate Army, serving with distinction and rising to the rank of Brigadier General. His Texas Brigade distinguished itself in 135 engagements during the war. After the war, Ross returned to Waco where he farmed and served as sheriff. In 1875 he was a member of the Texas Constitutional Convention, and in 1880 he was elected to the state Senate. Popular in the legislature and with Texans throughout the state, he was elected Governor in 1886 and reelected in 1888. A staunch supporter of public education, charitable institutions, and railroad
regulation, upon leaving the governorship, Ross was appointed president of Texas A\&M College, a position he held at the time of his death in 1898.
The campus of Sul Ross State University consists of approximately six hundred acres and a large number of buildings, including nine academic classroom buildings, the Bryan Wildenthal Memorial Library, the Museum of the Big Bend, a maintenance complex, University Center, three residence halls, over one hundred apartments, and the President's home. Football and track and field events are held in Jackson Field, and University activities of various types are held in the historic Kokernot Lodge adjacent to the Kokernot Outdoor Theatre of the Big Bend. The Everett E. Turner Range Animal Science Center includes an animal health clinic, a horse science center, meat processing facilities, the San Antonio Livestock Exposition Equine Center, and modern, well-equipped laboratories. Sul Ross State University is the birthplace of the National Intercollegiate Rodeo Association and the University annually sponsors NIRA rodeos. The University is a member of the National Collegiate Athletic Association and the American Southwest Conference, participating in non-scholarship competitive sports events in basketball, football, volleyball, softball, tennis, and track in both men's and women's athletics.
Sul Ross State University Rio Grande College is an off-site campus of Sul Ross State University, and it is composed of three instructional sites in Uvalde, Del Rio, and Eagle Pass. Begun originally as the Sul Ross State University Study Center, it was renamed the Uvalde Study Center in 1985, and the Uvalde Center in 1989. Recognizing its service to the broad area of the Middle Rio Grande and Wintergarden regions of Texas, the Legislature made Uvalde an off-site instructional campus for Sul Ross State University in 1995. Del Rio and Eagle Pass were later added as off-site instructional centers, and today the three sites are collectively known as Sul Ross State University Rio Grande College. It offers junior, senior and graduate work in selected programs. It is headquartered on the campus of Southwest Texas Junior College in Uvalde, Del Rio and Eagle Pass.

Rio Grande College serves thirteen counties in Southwest Texas. Sometimes referred to as the Southwest Texas Badlands. This area is known for its fields of purple sage and its Old West ambiance. In this atmosphere, the College works continually towards higher standards of excellence in teaching and learning. The Rio Grande College is located on the Texas-Mexico border. The area includes two of the five highest-volume ports to our southern neighbor.

## 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

Personal Connection<br>Effective Communication

Growth and Exploration
Leadership and Service

## SUL ROSS STATE UNIVERSITY STRATEGIC PLAN

A university-wide committee developed the plan, Strategies for the Second Century 2017-2022, and it was implemented in fall 2017. The five goals of the strategic plan are listed below:

- Promote Growth in Academic, Research, and Artistic Excellence
- Target Recruiting, Maximize Retention, \& Increase Graduation Rates
- Strengthen a Sustainable and Diversified Financial Base while Ensuring Affordable Access
- Recruit, Retain, and Develop Faculty, Staff, and Student Employees
- Unify and Enhance the Image and Visibility of Sul Ross


## DIVISION OF EDUCATIONAL AND CULTURAL RESOURCES

The Division of Educational and Cultural Resources coordinates and communicates the efforts of our cultural and educational offices. The mission of the Division of Educational and Cultural Resources is to connect our resources with our campus and community and to collaborate to reduce inefficiencies, make the most of our special offerings, and enhance the quality of life on campus and throughout our communities. We envision a vibrant campus and community where cultural and educational resources are essential and accessible to all. The division includes the following departments: Library and Research Technologies, the Archives of the Big Bend, the Museum of the Big Bend, the Center for Big Bend Studies, the Academic Support Center, Career Services and Testing, Blackboard and Instructional Technoloy, International Studies, as well as the Multicultural Center and the Office of Diversity, Equity, and Inclusion.

## LIBRARY AND RESEARCH TECHNOLOGIES

Supporting students, staff, faculty, and communities of Sul Ross State University and Rio Grande College, the Department of Library and Research Technologies is housed in the Bryan Wildenthal Memorial Library in Alpine, and consists of two organizational units: Education, Access, and Outreach (including Reference Services, Circulation Services, and InterLibrary Loan) and Content Management (including Acquisitions, Cataloging, and Serials). The mission of the Library is to provide the learning resources and services necessary to support the educational, research, and informational needs of the University including Rio Grande College, the Alpine community, and the Big Bend area. The primary resources of the Library are its collections and its staff. The Library's website is: http://library.sulross.edu.
In support of the Sul Ross State University Mission, the Bryan Wildenthal Memorial Library provides collections and services needed to conduct research and to effectively and efficiently teach, as well as instruction and assistance in information retrieval, information literacy, and scholarly communication, and provides the required physical place for students and faculty to collaborate and exchange ideas.
The Library is a strategic institutional asset in the creative exploration, intellectual growth, and scholarly pursuits of the students, faculty, and staff at Sul Ross State University and the community of the Big Bend and US-Mexico border regions of Texas.

1. Education, Access and Outreach staff assist patrons with locating information, planning research strategies, and using the online catalog and electronic resources. They also teach library research skills and collaborate with faculty to integrate information literacy skills into courses, work one-on-one with faculty researchers as needed, and develop
teaching tools and resources to promote the resources, services, and spaces of the Library.
a. Circulation Desk staff manage and circulate reserve materials and circulating books. Interlibrary Loan staff obtains materials that the Library does not own for Sul Ross students, faculty, and staff. They also provide document delivery services.
2. Content Management staff is responsible for identifying, acquiring, cataloging, and processing materials for the collections of the Library. Other functions include creating and maintaining records in the Library's electronic catalog; repairing or withdrawing torn/damaged materials; binding journals; receiving and acknowledging gifts and donations; and assisting faculty with the selection and purchase of appropriate materials.
Specific objectives of the Library are to provide the following resources and services:

- A professionally and expertly trained staff to develop and administer the resources and services of the library.
- A strong, well-balanced core collection of materials in a variety of formats to support the teaching and research functions of the University.
- Full-text access to online resources in scholarly databases for all SRSU students, staff, and faculty through our website, on campus and remotely.
- In-depth collections in disciplines offering Master's degrees.
- Current and accurate reference and general information sources to support the informational and recreational needs of the University, the Alpine community, and the Big Bend area.
- A dynamic and curriculum-integrated Library Instruction Program
- Services for locating and obtaining materials from other libraries through a strong Interlibrary Loan department.
- A physical building that facilitates the use of information and collaboration among patrons.

Additionally, Rio Grande College students, staff, and faculty have access to the Will C. Miller Memorial Library through Southwest Texas Junior College and physical locations are in Uvalde, Del Rio, and Eagle Pass, and through the library web page at https://library.swtjc.edu/. Online publications, including periodicals and books, are available full-text from the library web page.

## ARCHIVES OF THE BIG BEND

The mission of the Archives of the Big Bend is to collect, preserve, arrange, and make available for research purposes the recorded history and culture of the unique and diverse Big Bend region of far West Texas. The collection area includes the Trans-Pecos of Texas and corresponding border area of northern Mexico. The holdings include manuscripts; records of businesses, organizations, and individuals; photographs; maps; oral histories; newspapers; books; and the University Archives.
The Archives supports the educational mission of the University by providing access to the holdings for student and faculty use. Bibliographic instruction and orientation for classes and individuals is available for general and course specific purposes.
The Archives supports and works closely with the Museum of the Big Bend in support of its exhibits and programming as well as documentation and description of the Museum's collections.

Extensive use of the University Archives is made by the administration and staff for documentation and a variety of special projects.

A wide range of researchers and scholars local to worldwide make use of the unique holdings
Services include reference assistance and instruction to patrons on the proper handling and use of archival materials. Documents and images are delivered in a variety of formats both on site and long distance.

## MUSEUM OF THE BIG BEND

The Museum of the Big Bend completed a renovation in August 2007 of the Emmett and Miriam McCoy Building. The McCoy building, the original Texas Centennial Big Bend Memorial Museum structure, now houses the collections, education programs and exhibits. The Mission of the Musuem of the Big Bend is to serve and educate the public by collecting, preserving, exhibiting and interpreting the cultural, historic and natural materials that relate the prehistory, history and cultural diversity of the Big Bend region of Texas and Mexico. Collections in archeological, historical and natural history materials are extensive. Many of the collection artifacts are exhibited in the main gallery, Big Bend Legacy, that includes six touchscreen video kiosks that help to tell the many stories of the vast areas of Brewster, Jeff Davis and Presidio counties. One of the signature pieces is a full-scale model of Quetzalcoatlus northropi, the Big Bend Pterodactyl.
The Yana and Marty Davis Map Collection, considered one of the premier map collections in Texas, consists of over 1500 maps covering five centuries of cartographic history of Texas, Mexico and the Southwest. The collection is open for research by scholars and students at Sul Ross State University. For access to the Yana and Marty Davis Map Collection, contact the Curator of Collections at 432.837 .8735 to schedule an appointment
Activities at the Museum include tours, special events, exhibit openings, gallery talks, volunteer opportunities, and special education program activities for children and adults. Each fall the museum hosts Trappings of Texas one of the longest running exhibits of contemporary cowboy art and gear in the country. Every summer the Museum celebrates the art of photography and hosts a weekend of photography related events.
The Museum is open from Tuesday through Friday 10 am to 4 pm . The Museum is closed on Mondays and all major holidays. Admission is free. For information, please call 432-837-8143 or visit our website at www.museumofthebigbend.com. The mailing address is Box C-101, Sul Ross State University, Alpine, Texas 79832.

## CENTER FOR BIG BEND STUDIES

The purpose of the Center for Big Bend Studies is to support and promote programs and interdisciplinary scholarly activities relating to the cultural, historical, and archaeological development of the Big Bend region of Texas. The region is broadly defined to include the Rio Grande borderlands of Texas and Mexico from El Paso and Cuidad Juarez to Del Rio and Cuidad Acuña, the Pecos River valley from the Rio Grande to southern New Mexico, and the entire Trans-Pecos region of Texas. The Center publishes The Journal of Big Bend Studies, an interdisciplinary annual with emphasis on historical and archaeological studies related to the region, and La Vista de la Frontera, an annual newsletter.
In addition to working with academic departments and programs on campus to provide research opportunities for faculty and students, the Center works with Big Bend National Park, Guadalupe Mountains National Park, Big Bend Natural History Association, Texas Parks and Wildlife Department, Texas Historical Commission, county historical commissions, and the general public in cooperative educational, research, and public service projects. The Center sponsors an Annual Conference for the presentation of research papers and maintains an extensive library
on the archaeology and history of the Southwestern United States and north-central Mexico. For information, visit our website at http://cbbs.sulross.edu/ or call us at 432-837-8179.

## OFFICE OF INTERNATIONAL STUDIES

The mission of the Office of International Studies (OIS) is the development of a globally aware, culturally diverse education and research environment. The Office enhances the educational experience of students to create global citizens with an awareness of the world around them; attracts international scholars who enrich the community; expand the college's brand internationally and contributes to the creation of just societies around the world.

## INSTRUCTIONAL SERVICES

Instructional Services is located on the third floor of the Briscoe Administrative Building (BAB) Instructional Services Office BAB 313

Monday-Friday 8am to 5 pm
Phone: (432) 837-8525
FAX: (432) 837-8510
Blackboard Homepage w/Support Info: https://www.sulross.edu/bb
E-mail: tim.parsons@sulross.edu
Instructional Services provides Sul Ross faculty and students with resources that promote the personal and academic development of students and support a culture of diversity. To accomplish our mission, we assist faculty and students to realize their potential through:

- Engaging faculty and students in active learning, training, and collaboration;
- Teaching strategies and processes that promote independence in learning and enable the transfer of learning to multiple contexts;
- Provide for increased opportunities for student involvement in online programs through the close collaboration of our SRSU Office of Instructional Services, our TSUS Shared Services Partnership, and our Online Programs and Distance Education (OPDE) leadership.

Blackboard is our online learning management system here at SRSU, and the administration, training, and faculty/student support for Blackboard falls under the Instructional Services area. SRSU has entered into a shared services partnership with Sam Houston State University. The stated objective of this initiative is to share resources in support of improving and expanding quality online education within the Texas State University System. Our TSUS shared services Blackboard environment now provides expanded support for faculty and students, including new resources \& tools previously unavailable to us. The Instructional Services area will be working closely with our TSUS Shared Services Partnership to continue to provide a high level of support and training for all SRSU campuses.

The Online Blackboard Support Desk is available for SRSU faculty and students 24 hours a day, 7 days a week: email - blackboardsupport@sulross.edu or call - 888.837 .6055 with any SRSU Blackboard technical or instructional concern.

## MULTICULTURAL CENTER \& OFFICE OF DIVERSITY, EQUITY, \& INCLUSION

The Multicultural Center's goals are increasing the global awareness of students and community
members, confronting racial, gender/sexuality, and socioeconomic diversity and inequalities, and promoting encounters and programming that celebrates the diverse cultures represented at Sul Ross. For more information email odei@sulross.edu or stop by the office in the UC 212.

## BORDERLANDS RESEARCH INSTITUTE FOR NATURAL RESOURCE MANAGEMENT

Formed in 2007, the goal of the Borderlands Research Institute is to provide land managers with the most current scientific information on the management of the natural resources of the area. To meet this goal, we plan and conduct research investigations on various aspects of our natural world. Ultimately, we hope to provide science-based management alternatives to land owners and managers to enhance their ability to serve as land stewards.
The Borderlands Research Institute serves as the "sister institution" to the Department of Natural Resource Management within the College of Agricultural and Natural Resource Sciences at Sul Ross State University in Alpine, Texas. For more information visit our web site http://bri.sulross.edu/ or call us at 432-837-8615. The College of Agricultural and Natural Resource Sciences and the Borderlands Research Institute are housed in the Turner Range Animal Science Center, which is located 1 mile east of the main campus on U.S. Highway 90.

## SUL ROSS STATE UNIVERSITY/RIO GRANDE COLLEGE SMALL BUSINESS DEVELOPMENT CENTERS

The Sul Ross State University Small Business Development Center located in Alpine, Texas is a leading economic development center recognized for excellence in service to the small business community and offers one-on-one confidential advising and a training program. Our mission is to foster small business success in Brewster, Culberson, Jeff Davis, Loving, Pecos, Presidio, Reeves, and Terrell counties.

The Small Business Development Center, Rio Grande College, has offices on the campuses in Del Rio and Eagle Pass as well as an office in the MRGDC building in Carrizo Springs. The Center strives to support the economic development of the Middle Rio Grande region of rural Southwest Texas. The Center conducts the SBDC program in nine counties stretching from Maverick to Dimmit, Edwards, Kinney, La Salle, Real, Uvalde, Val Verde, and Zavala- an area of 12,000 square miles.

## OFFICE OF INFORMATION TECHNOLOGY

The Office of Information Technology (OIT) oversees all technology related matters at Sul Ross State University. The mission for OIT is to provide technology leadership in the selection, acquisition, application, and management of technologies that enhance the university's teaching, learning, research, and administrative environments.
OIT consists of six departments: The Office of the Chief Information Officer (CIO), Lobo Technology Assistance Center (LTAC), which includes desktop support, Networking and Systems, Enterprise Application Services (outsourced to Campus Works), and Control Systems (fire and security systems). Our staff is located on all four campuses: Alpine, Del Rio, Uvalde, and Eagle Pass. In Alpine we have offices in the Academic Computer Resource Center (ACRC).
Please check our website www.sulross.edu/OIT for updated information on the services and support we offer. OIT has a long-standing tradition to provide you with the support and service you need in pursuit of excellence and success in your education and we hope to continue the same moving forward.

## The Office of the Chief Information Officer (CIO)

The Office of the Chief Information Officer is responsible for providing the leadership, vision, and management of the Office of Information Technology. The CIO has budgetary responsibilities for the department and ensures the institution stays within the guidance of state policies and practices in regards to the information resources used at Sul Ross. This office is also responsible for ensuring the confidentiality, integrity, and availability of the University's computing assets by drafting and enforcing security controls and policies that protect personnel records and matters that require protection and compliance as per federal, state, and industry regulations such as FERPA, HEOA, PCI, etc.

## Lobo Technology Assistance Center (LTAC)

The Lobo Technology Assistance Center (LTAC) assists with technology needs via the helpdesk, support counter, and open access computer labs. Staff in LTAC are trained to assist you with computer and technology related matters. LTAC provides training to faculty and staff on various instructional and productivity technologies such as Blackboard, Microsoft Office Suite, and Adobe products. Our department is also responsible for the technology in classrooms, standard and Distance Education rooms. All services delivered for all sites at SRSU are centralized, however, trained and certified staff at RGC provide hands-on support for technology issues at those three campuses.
You can contact us via:

- Phone: You can call the LTAC helpdesk at 8888. Off Campus, dial 432-837-8888 between 7:30 a.m. to 7:30 p.m. Monday to Friday and 12 p.m. to 5 p.m. on Saturday and Sunday. For more details, please visit us online at www.sulross.edu/LTAC
- Online: For technology help, https://techassist.sulross.edu, For general OIT information, www.sulross.edu/OIT
- Walk-in: The main LTAC helpdesk is located in the Academic Computing Resource Center (ACRC), room 105.
There are three open access computer labs on the Alpine campus that are open to all faculty, staff, and students.
- ACR 106
- $2^{\text {nd }}$ floor of the Bryan Wildenthal Memorial Library
- The Red Paw Den (RPD) in Cottage 3

Networking and Systems
The Networking and Systems team in OIT maintains and administers the University's computing infrastructure including but not limited to the data center, the network, wired and wireless connections, the Internet, firewall and spam filtering, servers, telecommunications, and other infrastructure related technologies. Other services include VPN, email, and online storage. Staff in Networking and Systems are trained and certified to support the voice, data, and video infrastructure for the University.
Enterprise Application Services
The department of Enterprise Application Services (EAS) manages and supports application development for the University's Enterprise Resource Planning (ERP) system. The system is used for processing prospective and current students, financial aid, advancement, and employee records. Our 24/7 Banner Self Service portal allows students to register for classes, pay tuition and fees, and access their records at their convenience and is available through the campus portal (https://my.sulross.edu)

## Control Systems (Fire and Security Systems)

The Control Systems area has responsibilities for the safety and security systems for the Alpine campus. This includes fire systems, card access system, CCTV systems, and others.

## DISTANCE EDUCATION STATEMENT

Students enrolled in distance education courses have equal access to the university's academic support services, library resources, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should submit online assignments through Blackboard or SRSU email, which require secure login information to verify students' identities and to protect students' information. If that course requires students to take proctored exams or to purchase additional software or equipment, that information will be included in the course syllabi. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in online courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.

## TUITION AND COURSE/LAB FEES

All students will pay, by the due dates specified in the class Schedule bulletin, the required tuition and fees based on the number of semester credit hours for which they register. Required tuition and fees for each semester of the 2022-2023 academic year may be obtained in the Cashier's Office in Alpine or in the Business Services Offices in Del Rio, Eagle Pass, and Uvalde. Laboratory and individual instruction fees will be in addition to these amounts. Tuition and Fees may differ between Alpine and Del Rio, Eagle Pass, \& Uvalde due to the services provided at the campuses.

## Resident Student Tuition

The State tuition for students classified as residents of the State of Texas during 2022-2023 is $\$ 50$ per semester hour.

## Non-Resident Tuition

Tuition for a student who is classified as a non-resident student is equal to the cost of attending a State University in Texas as determined annually by the Texas Higher Education Coordinating Board. For 2022-23, this amount is $\$ 458$ per semester credit hour. See Residence Status in this catalog.

## Board Authorized Tuition- Graduate Programs

Section 54.008 of the Education Code provides authority for the governing board to set state tuition for graduate programs at higher rates than the minimum tuition required by the chapter. Board authorized tuition is set at $\$ 12$ per school for graduate courses.
Application Fee ..... $\$ 25.00$
Biology Lab Fee ..... $\$ 8.00$
Chemistry Lab Fee ..... $\$ 8.00$
Distance Learning per SCH ..... $\$ 52.00$ (Alpine)(Includes waiver of certain fees for $100 \%$ online students)Education (Student Teaching/Internship Fee)\$100.00-300.00
Geology Lab Fee ..... $\$ 8.00$
Industrial Technology ..... \$15.00-20.00
Mediated Math ..... $\$ 75.00$
Music:
1 Hour Private Lesson ..... $\$ 25.00$
2 Hour Private Lesson ..... $\$ 35.00$
Physics Lab Fee ..... $\$ 8.00$
Safety Education (Driver Training) ..... \$15.00
Animal Science:
Laboratory ..... $\$ 8.00$
Field Schools ..... \$175.00-1,800.00
Audit Fee (per course) * ..... $\$ 50.00$
Housing Application Fee ..... $\$ 50.00$*Permission must be obtained from the instructor of the course to be audited and from theCenter for Enrollment Services prior to paying this fee. In addition, conditions under academicregulations in the University Catalog apply.Tuition and fees presented herein are estimates and are subject to change by the TexasLegislature and/or the Board of Regents, Texas State University System.

## 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.
A student or applicant is classified as either 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 University 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 University Registrar in the Center for Enrollment Services at (432) 837-8049 or Box C-2, Sul Ross State University, Alpine, Texas, 79832.

## OPTIONAL FEES AND DEPOSITS

## Optional Fees (All optional fees and deposits are due and payable in FULL at which time the service is rendered or contracted): <br> Parking Fee:

All faculty, staff and students who expect to operate a vehicle on University property: Yearly (September 1- August 31) .......................................................................... $\$ 40.00$

Summer (May 31 - August 31) ......................................................................... $\$ 21.00$
Post Office Box Rental:
Per semester....................................................................................................................... \$6.00
Per summer term ............................................................................................................... \$3.00
Entire year.......................................................................................................................... \$17.00
Graduation, by deadline........................................................................................ $\$ 30.00$
Graduation, after deadline ....................................................................................... \$55 00
Diploma Insert Fee ................................................................................................... $\$ 5.00$
Late Registration Fee .......................................................................................... \$125.00
Installment Fee ....................................................................................................... $\$ 25.00$
Music Instrument Deposit ...................................................................................... $\$ 10.00$
Music Instrument Rental .......................................................................................... $\$ 10.00$
Deficiency Plan Preparation Fee
SRSU Graduate ..... $\$ 15.00$
Non-SRSU Graduate ..... $\$ 25.00$
American College Testing Program Test Residual Administration (ACT)*. ..... $\$ 63.00$
CLEP Advance Standing Examination fee (per exam) ..... $\$ 89.00$
SRSU Proctoring Fee ..... $\$ 15.00$
*This fee is subject to change in accordance with requirements of the American College TestingProgram and is for administering the test on campus.
Deposits (Refundable):
Property Deposit. ..... \$10.00
Housing Deposit ..... $\$ 200.00$
Orientation Fee (new students) ..... \$125.00
Fees and deposits are subject to change by the Board of Regents, Texas State University System.If a student fails to make full payment of tuition and fees, including any incidental fees, by thedue date, he/she may be prohibited from registering for any classes until full payment is made.A student who fails to make full payment prior to the end of the semester may be denied creditfor work done during the semester.
REFUNDS
Refund of Fees. Any student who has paid the registration fees and officially withdraws by submitting a withdrawal form to the Center for Enrollment Services is entitled to a refund of tuition and fees as follows:
Session length 10 weeks or greater (fall and spring 16-week terms)
Prior to the first regularly Scheduled class day ..... 100\%
During the first five class days ..... 80\%
During the second five class days ..... 70\%
During the third five class days ..... 50\%
During the fourth five class days ..... 25\%
After the fourth five class days ..... None
Session length greater than 5 weeks and less than 10 weeks (Summer I and II, $1^{\text {st }}$ and $2^{\text {nd }} 8$-week terms in fall and spring)
Prior to the first regularly Scheduled class day ..... 100\%
During the first, second or third class day ..... 80\%
During the fourth, fifth or sixth class day ..... 50\%
Seventh day of class and thereafter ..... None
Session length less than 5 weeks (Mid-winter term, Alpine only)
Prior to the first regularly Scheduled class day ..... 100\%
During the first class day ..... 80\%
During the second class day ..... 50\%
Third day of class and thereafter ..... None
Special Notes:

- Refund percent is applicable to tuition and mandatory fees only. Optional fees are not refundable.
- If a student has not paid the total amount of the tuition and mandatory fees by the date the student withdraws, Sul Ross State University will credit the amount to be refunded toward the payment of outstanding tuition and mandatory fees owed by the student. If any portion of the amount to be refunded remains after the outstanding tuition and mandatory fees have
been paid, a refund will be issued in that amount.


## Refund for Dropped Courses

Should a student reduce his/her semester hours by officially dropping a course or courses in a term, the following refund rates will apply, provided the student remains enrolled in the term at Sul Ross State University:

## Regular Session (16 weeks)

During the first twelve class days.............................................................................100\%
After the twelfth class day......................................................................................... None
$1^{\text {st }}$ or $2^{\text {nd }} 8$-Week Session in a Fall or Spring
During the first four class days .................................................................................100\%
After the fourth class day ........................................................................................ None
Summer Session I or II (5-6 weeks)
During the first four class days ................................................................................. 100\%
After the fourth class day .......................................................................................... None
A class day is a regular day of Scheduled classes at the University (i.e. a full week, Monday to Friday, will have 5 class days). The first twelve class days are the first twelve days of regular class meetings on the University campus. These rates apply to total tuition and fee charges for the semester. An immediate refund will not be made at the time a student withdraws or reduces his/her hours during a semester. After all obligations are met and appropriate adjustments made to the account, any refund due will be provided either by check or direct deposit (if the student has elected this option). Checks will be held for pick-up in Lawrence Hall 100 (Alpine) or at Business Services (Del Rio, Eagle Pass, or Uvalde - location based on the student's home campus) for 30 days then mailed to the student's permanent address on file. Refunds will be processed within 30 days of a drop or withdrawal.

## FINANCIAL ASSISTANCE

The Center for Enrollment Services strives to develop and implement programs and activities designed to enhance the image and visibility of the University as a quality educational institution. Services include answering questions about financial aid and giving financial aid talks to area high schools. This office strives to maintain good public relations with high schools through regular visitation. Financial Aid Specialists also serve as liaisons between parents and other University offices. The Center staff coordinates all scholarships offered at Sul Ross State University.
It is the philosophy of the administration at Sul Ross State University that any deserving and capable student who wishes to attend the University should not be deprived of that opportunity due to financial need. Underlying this philosophy is the belief that the primary responsibility of financing a student's education rests with the student. However, because of the variety of financial backgrounds from which students come, it is sometimes necessary to seek outside help to cover normal education costs, which cannot be met by the family. It is the purpose of the Center for Enrollment Services at Sul Ross State University to assist students in obtaining financial aid necessary to cover this cost.

Students desiring to obtain information on how financial aid awards are determined, basic education expenses, method of financial aid disbursement, financial aid refund requirements for students withdrawing from the University, satisfactory academic progress requirements, or more information concerning any of the financial aid programs should contact the Center for Enrollment Services on the Alpine campus, or the Office of Financial Aid in Eagle Pass, Uvalde, or Del Rio.

Center for Enrollment Services PO Box C-2 Alpine, TX 79832
Phone: (432) 837-8050
Fax: (432) 837-8411
E-mail: fa@sulross.edu

Office of Financial Aid Office of Financial Aid 3107 Bob Rogers Drive Eagle Pass, TX 78852
Phone: (830) 758-5021
Fax: (830) 758-5019 E-mail:
RGCfao@sulross.edu

2623 Garner Field Road Uvalde, TX 78801
Phone: (830) 279-3008
Fax: (830) 279-3009 E-mail:
RGCfao@sulross.edu

Office of Financial Aid 205 Wildcat Drive Del Rio, TX 78840
Phone: (830) 703-4824
Fax: (830) 703-4810 E-mail: RGCfao@sulross.edu

## Satisfactory Academic Progress (SAP) For Financial Aid

The Higher Education Act of 1965, as amended, mandates institutions of higher education to establish policies to monitor the academic progress of students who apply for and/or receive federal financial aid. SRSU makes these minimum qualitative and quantitative standards applicable to all federal, state, and institutional financial aid programs for the purpose of maintaining a consistent policy for all financial aid applicants. These minimum standards include

1. Cumulative Grade Point Average (GPA) must be 2.00 for Undergraduate programs and 2.00 for 2nd Baccalaureate and 2.75 for the Teacher Certification program and 3.00 for Graduate programs.
2. Maximum Time Frame for ALL degree types is no more than $150 \%$ of the number of credit hours required for graduation in the program of study, unless otherwise specified by program requirements.
3. Successful Credit Hour Completion Rate must be $67 \%$ of all attempted course work.

NOTE: Though this policy establishes the minimum standards for all financial aid programs at SRSU, individual aid programs may have other qualitative and quantitative standards specific to the program as mandated by law or the program's governing entity. Such programs include, but are not limited to, the TEXAS Grant program. Information concerning the minimum standards of these specific programs can be obtained from the SRSU Financial Aid Office.

Satisfactory progress requirements are monitored for ALL enrollment periods, including those for which financial aid was not received. A student's financial aid eligibility will be determined in accordance with the number of credit hours that pertain to the current degree program. A student who has not made satisfactory progress at the end of a semester will be placed on Financial Aid 'Warning'; if a student fails to make satisfactory progress by the end of a subsequent semester, the student will be placed on Financial Aid 'Suspension' and lose eligibility for future aid. An appeal, which must be made in writing and accompanied by supporting documentation, may be made to the Financial Aid Appeals Committee if a student believes that extraordinary circumstances have affected his/her ability to make satisfactory progress. If the appeal is APPROVED by the Committee, the student will be placed on Financial Aid 'Probation' and will regain eligibility for financial aid. If the appeal is DENIED by the Committee and the student believes the decision of the Committee to be inappropriate, the student may request to have the appeal presented before the Vice President of Enrollment Management (VPEM). The VPEM has the option to send the case back to the SRSU Financial Aid Appeals Committee for review.

A copy of the complete and current Satisfactory Academic Progress Rules can be obtained online by clicking here. These rules are subject to change in accordance with federal, state and institutional policy.

In compliance with SACSCOC standard 3.9.2, SRSU provides information and guidance to help student borrowers understand how to manage their debt and repay their loans.

## SCHOLARSHIPS

Sul Ross State University offers many outstanding academic scholarships for beginning freshmen as well as students currently enrolled who excel in areas of academic achievement and leadership.
Interested students should contact the Center for Enrollment Services at (432) 837-8050, by mail at Box C-2, Alpine, Texas 79832, or visit Lawrence Hall Room 100 on the SRSU Campus.
The Scholarship brochure and application may also be found online at:
http://www.sulross.edu/page/1064/srsu-scholarships.

## PROGRAMA DE ASISTENCIA ESTUDIANTIL (PASE)

Mexican citizens are eligible for the Programa de Asistencia Estudiantil (PASE) under which they qualify for in-state tuition and fees. Only Mexican citizens are eligible for PASE. U.S. citizens holding dual U.S./Mexican status are not eligible for PASE.
For more information on PASE or for a PASE application form, contact the Center for Enrollment Services, Box C-2, Alpine, Texas 79832.

## STUDENT LIFE SERVICES

Sul Ross State University recognizes the importance of providing opportunities for the academic, career, and personal development of its students. Co-curricular activities, programs, and services which enhance the student's total development are therefore, viewed as an integral aspect of the student's college education.
The purpose of the Student Life Division is to support and enhance the educational mission of the University. The goals of the Student Life Division are based on the following beliefs:

1. Each student is unique.
2. Growth and learning should be geared toward the development of the whole individual.
3. Student involvement enhances both growth and learning.

## Some functions of the Student Life Division are:

1. To plan and provide programs, services, and activities to broaden students' opportunities for personal, educational, social, and cultural development.
2. To develop leadership through participation in campus and community activities.
3. To design programs and services that complement classroom activities.
4. To assist students toward realization of their personal, academic, and career goals.
5. To help students achieve their potential as human beings and become self-directed individuals.
6. To provide a safe and healthy environment, in and out of the classroom, in which students can grow and learn.
Student Life programs and policies are designed to complement and enhance the students' educational goals. Any student in need of assistance or information may contact the Student Life Office located in the University Center, Suite 211, email stulife@sulross.edu, or by phone at (432) 837-8037.

## STUDENT SUPPORT SERVICES

Student Support Services is an academic support program designed to increase the academic performance, retention rates, and graduation rates of 160 program participants. A grant program funded through the U. S. Department of Education, SSS offers academic advising, career/major counseling, personal support, academic support programs, financial aid counseling, and social/cultural activities.
You may qualify for Student Support Services if you have a need for academic support and meet any of the following eligibility criteria:

Meet federal low-income guidelines. Neither parent has a baccalaureate degree Have a federally recognized disability You must fill out an application in order to participate in Student Support Services. Applications can be obtained by visiting the Student Support Services office in Ferguson Hall 105, by calling the office at (432) 837-8118, or online at http://www.sulross.edu/page/3448/student-support-services-program-application.

## STUDENT COMPLAINTS

University policy (APM 4.07) addresses two types of student grievances: 1) grievance of grades or professional conduct of faculty or 2 ) grievance based on race, color, national origin, sex, age, or disability. Student grievances of grades or professional conduct of faculty are the jurisdiction of academic affairs; grievances based on race, color, national origin, sex, age, or disability are the jurisdiction of Student Life and Human Resources

## STUDENT HEALTH SERVICES

## Student Health Service (Alpine Campus)

Student Health Service is located in the University Center, Suite 211, Office 211D. The office is staffed by a registered nurse who can assess student health needs, treat minor injuries and illness. Over-the-counter medication is available for symptomatic relief.
In addition to the on-campus nurse, itemized routine care is outsourced through a local medical provider. In office screens for strep throat, pregnancy, urinary tract infection, blood sugar and anemia are covered. Students are responsible for the cost of tests and procedures not on the coverage listed on the health services website and diagnostic tests, medical procedures, prescription medications and all health care received outside the university's medical vendor and campus nurse. The Student Health Service office can be reached at 432-837-8102.

## Immunization Status

Meningococcal vaccination is required by Texas law for new and transfer students under 22 years of age who are on campus. Students must be vaccinated against meningococcal no later than ten days before the semester begins. Proof of immunization may be faxed to (432) 837 8411. Although not mandated, students are encouraged to have their other immunizations reviewed and updated. They also need to check with their academic advisor about special vaccination needs for their educational program(s). International students must show evidence of childhood immunizations and have a recent tuberculin skin test with a negative result or proof of medical clearance.

## Student Health Insurance

Sul Ross does not sponsor a Student Health Insurance Plan (SHIP). For this reason, noninsured students are strongly encouraged to purchase comprehensive health insurance. International students must have a health and repatriation policy that is good in the United States. Athletes should check with the university's physical education department about limited supplemental accident coverage.
For more information on health services, phone (432) 837-8102, email Health@sulross.edu, or see https://www.sulross.edu/student-life/student-health-services

## COUNSELING AND ACCESSIBILITY SERVICES

The staff of the Counseling and Accessibility Services Department strives for student success and for Sul Ross State University to be a safe, healthy learning environment for all involved students, staff and faculty.
The Counseling and Accessibility Services office is located in Ferguson Hall, Rm. 112. They
can be contacted by phone at (432) 837-8203.

## Counseling

Counseling is an integral part of the Counseling and Accessibility Services office and the student-centered educational mission at Sul Ross State University. This office provides a supportive environment that helps facilitate positive change and promotes mental health and emotional well-being on campus.
The office is staffed with Licensed Professional Counselors. Services are confidential and free of charge to students, staff, and faculty of Sul Ross as well as their immediate family members. Any problem which is interfering with a person's ability to function well in the academic or nonacademic environment is appropriate for counseling.
The services provided include but are not limited to the following:
*Brief, short-term individual and group counseling to address such issues as:
Adjusting to college
Homesickness
Anxiety and Stress
Relationship issues

Test anxiety
Depression
Suicidal thoughts and feelings
Substance and alcohol abuse
Self-esteem
Eating disorders
Personal Growth and Development
Other related issues
*Workshops, presentations, and screenings promoting mental health.
*A referral network to off-campus providers.
*Crisis intervention.
Services may be obtained by calling 432-837-8203 or coming by Ferguson Hall Rm. 112, Monday-Friday 8:00am-5:00pm.

## Counseling at the Middle Rio Grande Campuses

Graduate students in the Counselor Education program, pursuing their LPC offer free, confidential counseling services for the students, staff, and faculty of the Middle Rio Grande campuses. A counselor can provide assistance and support through life's difficult times. If you are interested in counseling services, of if you know of someone you would like to refer for counseling, you can inquire via email at RGCcounselors@sulross.edu or you can contact (via telephone or email) the following individual for immediate assistance: Dr. Todd Russell, trussell@sulross.edu or (210)-253-0884

## Accessibility Services

Sul Ross State University supports equal employment and educational opportunities for all persons. 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, or disability.
Sul Ross State University is committed to compliance with the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973. Qualified students with disabilities needing academic or other accommodations to facilitate full participation in our programs, services and activities should contact the Accessibilities Coordinator, Ferguson Hall Room 112, Monday - Friday 8:00 a.m. - 5:00 p.m., 432-837-8203 at the Alpine campus. At the RGC Campuses, Room C102, Monday - Friday 8:00 a.m.-5:00 p.m. or contact by phone at 830-758-5006 or 830-279-3003.
Documentation by appropriate professionals should be provided to this office well in advance of the anticipated need for disability accommodations. An appointment should be made with the Coordinator to discuss individual needs, and specific requests. Please allow time for our office
to process each request on a case-by-case basis, make recommendations and arrange for appropriate and reasonable accommodations. Counseling services are provided for interested students.

## ORIENTATION PROGRAMS

Orientation programs for new students are provided at all campuses to help students better understand the University's expectations and learn about available programs and services.

## New Student Orientation (NSO)

During the summer in Alpine, one or two-day advising and registration events are offered to all new incoming students. Students are able to come to campus and meet with their academic advisors, get advised and registered in classes as well as take care of any university business such as residential living, cashiers, and financial aid. Camp Brand 'Em Orientation/Welcome in Alpine
All new students are required to attend Camp Brand 'Em Orientation, which takes place before school starts in August. Orientation engages students with their peers, builds traditions, introduces students to student life activities, and provides breakout sessions to learn about resources available to all students at Sul Ross State University.
Parent sessions are provided for parents regarding resources and student life.
The schedule can be viewed on the Sul Ross web site.
Students are charged a fee of $\$ 125$ to their tuition and fee bills.
At each of the Middle Rio Grande campuses, orientation programs for new students are coordinated through Student Services.

## Saturday Orientation/Welcome at the RGC Campuses

Orientation for new students is held the Saturday before classes begin at all three of the Middle Rio Grande campuses. Students are introduced to the staff and meet their faculty advisors in order to review degree plans. They also learn about the various on-campus departments and their functions.

## TUTORING AND LEARNING SERVICES

Some students may find it necessary to seek academic assistance. Tutors are provided at each campus site for the purpose of academic support and tutoring. Those students, hired by the University as tutors, have excelled in areas of writing and mathematics, have shown competency in doing research and in relating to other students. The tutors are prepared to help students in all areas and welcome the opportunity to be of assistance. Students may contact the Student Services Specialists for more information.
Alpine, 432-837-8865
Del Rio, 830-703-4812
Eagle Pass, 830-758-5037
Uvalde, 830-279-3027

## Writing Center

The Sul Ross State University Writing Centers offer students face-to-face tutoring on any aspect of writing. The Writing Centers are located at the following sites:
Alpine Brian Wildenthal Memorial Library, 432-837-8865
Del Rio Rio Grande College Technology Building, Room 301, 830-703-4817
Eagle Pass Rio Grande College Building, Room D129, 830-758-5035
Uvalde Southwest Texas Junior College, Fly Building, 830-591-2908

## Smarthinking

Smarthinking is an online tutoring service offered to any currently enrolled SRSU/RGC student. Smarthinking is available 24 hours a day, seven days a week at the touch of your computer keys.

Tutoring is available for writing, career writing, math, and many other subjects. Smarthinking employs e-structors who hold masters' or doctoral level degrees in the subjects they tutor. You can post a question on the white board and get real-time help or send your paper to an e-structor who will proofread the paper, make suggestions, and send it back to you within 24 hours. Visit www.smarthinking.com to log in.
All tutoring services are free to SRSU and RGC students.

## CAREER SERVICES AND TESTING CENTER

## CAREER SERVICES

Career Services is located in the University Center, Room 211C (432-837-8178). Web site https://www.sulross.edu/student-life/career-services/. We provide career and testing services for students and alumni. Office hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. Career Services can also be reached at careers@sulross.edu. Staff members are available to provide assistance in initiating, developing, and effectively implementing career plans. The office also assists students in locating on campus and off-campus employment. Services are provided to:

- Entering students, in selecting a major by exploring career options;
- Freshmen and sophomores, in tailoring career decisions, considering options such as graduate study, and specializing in a chosen field as well as internship opportunities;
- Juniors and seniors, in selecting a graduate program, securing an internship, writing a resume and cover letters, preparing for interviews, career planning and job search strategies.
- Graduating students and alumni, in accessing job openings career planning and job search strategies.
- Assessments available: Myers Briggs Type Indicator and Strengths Finder Individual consultations are available to assist students with college and career related concerns. Job fairs are held twice a year in the spring and fall giving students the opportunity to visit formally with prospective employers. Reference materials are updated on the website on career exploration, self-assessment, job search skills, and resume writing tips. A web page is maintained by the office as a starting point for conducting job searches via the internet, https://www.sulross.edu/student-life/career-services/.


## TESTING SERVICES

Testing Services, available through Career Services in Room 211C, University Center (432) 837-8178, administers all standardized testing for the University as well as accommodation testing for students in need. The Testing Center can be reached at testing@sulross.edu. Local tests require registration or appointments. Exams for college credit (such as CLEP) and others may be taken through the Career Services by appointment.
Information on fees and test dates are available in the office or on the web at
https://www.sulross.edu/admissions/testing-services/. The following tests are scheduled for administration on campus on selected national test dates:

- ACT (American College Test)
- GRE (Graduate Record Examination)
- LSAT (Law School Admission Test)
- SAT (Scholastic Assessment Test)

Other tests administered by arrangement/appointment include:

- TSIA (Texas Success Initiative Assessment)
- CLEP (College Level Examination Program)
- DANTES (Defense Activity for Nontraditional Education Support)
- TCEQ (Texas Commission on Environmental Quality)
- TEAS (Test of Essential Academic Skills)
- TCLEDDS (Peace Officer, Telecommunicator, and Jailer)
- Online and Correspondence course exams proctoring services

Pre-Registered tests scheduled every Wednesday unless closed for holiday or special events:

- Border Patrol or Customs and Border Patrol Officer
- TExES (Texas Examinations of Educator Standards)
- High School Equivalency. (GED or HiSET)
- Comp TIA
- NREMT

Students are encouraged to register for testing by calling Career Services in advance. Upon arrangement, Career Services and Testing will administer exams to groups and classes.

## ON-CAMPUS SERVICES UNIVERSITY BOOKSTORE

The Bookstore is owned by the University and leased to Texas Book Company. Its purpose is to serve the campus community by stocking required books and academic-related supplies. The Bookstore also stocks art and drafting supplies, gifts, candy, souvenirs, novelties, first-aid supplies, drug items, and University imprinted clothing. Books may also be special ordered through the Bookstore.

## Refund Policy

A valid receipt and picture identification are required for all refunds. Refunds will be given in the same form as original payment.

## Textbooks

- FULL REFUND, IF RETURNED WITHIN FIVE DAYS AFTER CLASS STARTS
- Scratch Web Access codes or books outside wrapping may not be returned.
- With proof of schedule change, a full refund will be given with a receipt during the first 30 days of classes.
- No refunds given on textbooks without a receipt.
- No refunds on custom course materials, outlines, or study guides.
- Textbook returned must be in original condition
- Medical \& specialty reference book refunds will be given if presented with a receipt within three days of purchase.


## All Other Merchandise

- FULL REFUND WITH A RECEIPT.
- With a receipt, unopened software may be exchanged or refunded.
- All merchandise returned must be in original condition.


## Buyback Policy

The best time to sell your used books is during finals week.
We will pay you $50 \%$ of the book's selling price, if it was requested by your professor for required use next term and the bookstore is not overstocked.
If the book does not meet these criteria, the prices we pay are based on the current national demand. All books must be in good condition.
Some books have little or no monetary value. Out of print books and old editions are not in national demand, and we cannot buy them.
Please remember: For the protection of the students on campus, we always require those selling books to show current student identification.

## VEHICLE REGISTRATION

Alpine: All faculty, staff, and students, full or part-time, and visitors, who operate a vehicle on university property, regularly or occasionally, are required to register the vehicle with the University Police Department and obtain a parking permit. Parking and Traffic Regulations governing the operation of motor vehicles on university property are published in the Student Handbook and on the UPD website .
Middle Rio Grande Campuses: Students must display a parking sticker from Southwest Texas Junior College. Decals may be purchased in the business office at SWTJC. Stickers are valid through the Summer II term each year.

## POST OFFICE

(Alpine Campus)

The University Post Office serves students, faculty, and staff. All students are required to have a local mailing address and the campus post office provides a convenient, economical service. The post office window is open from 8:00 a.m.-4:30 p.m., Monday through Friday. Money orders may be purchased from the Post Office on weekdays when the window is open.

## DINING ON CAMPUS

(Alpine Campus)

Sul Ross State University partners with ARAMARK Higher Education, Campus Dining, to provide dining experiences throughout the University. Campus Dining offers an all you care to eat residential dining room located in the University Center. The options include several venues which offer made to order entrees, healthy salads and wraps, as well as sandwiches, burgers, and a variety of pizza, pasta, and sauces. Campus Dining is open seven days a week with menu options changing for breakfast, lunch, and dinner. Retail outlets are available in the University Center and in the Lobo Village Community Building offering convenience items and snacks.
The University Food Committee meets regularly with the Director of Dining Services to discuss menus and service in the dining room and the retail outlets. This committee also assists in planning special events throughout the semester.

## UNIVERSITY HOUSING

(Alpine Campus)

The University offers on-campus residential living, which provides unique educational and social exchanges that are an integral part of an overall education. Each student has the responsibility for respecting the rights of others and for maintaining an atmosphere conducive to studying and to harmonious social life.

## General Housing Policy

Sul Ross State University requires all single undergraduate students who are enrolled full-time (12 or more credit hours) in the long semesters (fall and spring) and 5 or more credit hours in the summer semesters to reside in the residence halls for the first two full academic years (August - May) of their education.
Exemptions to this policy are made for students who: (1) live at home within a 100-mile radius with their parent(s), legal guardian, or grandparents; (2) are married; (3) are a single parent with children living with them; (4) are veterans and have spent at least twelve months on active duty; or (5) are 21 years of age or older by the first class day of the fall semester. Documentation must be submitted. Permission to live outside of a residence hall for those who are not exempt must be obtained from the Director of Residential Living prior to the start of class in any
semester or summer term for which the exemption is sought. Proper documentation must be presented. All students living in a residence hall are required to be on one of the University meal plans.
The University reserves the right to terminate any permission to live off campus. Failure to comply with housing requirements may result in disciplinary action, which may include forfeiture of deposits and/or the cancellation of registration for the student.

## Housing Facilities

Sul Ross provides one traditional and two contemporary residence halls with 585 beds for single students,60 efficiency apartments, and 16 double apartments for individual students 21 years or older or upperclassman in status. There are 24 university housing units available for married couples and students with children. To qualify for University student housing, a student must enroll in classes each academic term and submit required documentation dependent on housing type requested.

## Reservations

Prospective students should first obtain official admission to the University from the Admissions Office before applying for housing. Application for admission to the University and application for University housing accommodations are separate transactions. Space in University housing is reserved on a first-come, first-served basis.
A. Residence Hall: Students wishing to make housing reservations should fill out a housing application, which may be accessed on the Residential Living website. The housing application must be accompanied by $\$ 50$ non-refundable application fee. A $\$ 200$ housing deposit is due before the first day of occupancy. Suite mate requests are granted when space is available and when both applications indicate the same preference. Theme community requests are assigned by order of preference as space permits. All students who apply for accommodations in the residence halls and are accepted sign an agreement for the full academic year (August-May).
B. Efficiency Apartments: Individual students who are 21 years or older or have achieved upperclassman status, may apply to live in the efficiency apartments by filling out an apartment application which is accessible on the Residential Living website. The apartment application must be accompanied by $\$ 50$ non-refundable application fee. A $\$ 200$ housing deposit is due before the first day of occupancy. All individuals living in University apartments must be enrolled in classes on a full-time basis each academic term (including summers). Apartment rent continues during the entire time the student has occupancy of the unit. Students who apply for an efficiency apartment are placed on a first come first served waiting list based on the date the deposit is received by Residential Living.
C. Family Housing: A family housing application, which is accessible on the Residential Living website, should be filled out and submitted to the Residential Living Office with a $\$ 50$ non-refundable application fee. A $\$ 200$ housing deposit is due before the first day of occupancy. A spouse or children (full custody of children) must be living with the student in order to obtain family housing and only immediate /dependent members of the same family may reside in a unit. Birth certificates and the official (not common-law) marriage certificate must be presented. Rent continues during the entire time of occupancy. The student renting the unit must be enrolled full time each term (including summers). Students who apply for a family housing apartment are placed on a first-come first-served waiting list based on the date the application fee is received by Residential Living.
D. Theme Communities: Themed halls and/or wings bring together students with similar interests, goals, and attitudes and provide specialized programming to explore those
ideas. Theme communities will provide opportunities for civic responsibility, selfawareness, discipline, as well as a strong sense of community.

## REFUND OF ROOM AND BOARD FEES

If you have requested a room reservation and wish to cancel it, the request must be done in writing by the following dates in order to receive a refund: by August 1 for Fall, by December 15 for Spring; by May 1 for Summer I; and by June 1 for Summer II.
When you finish your educational career at Sul Ross, you may request a refund of your deposit. This request may be submitted in writing at the time of checkout or after the checkout process is completed. Any damage, cleaning charges incurred, or money owed to the university, may be deducted before the balance is refunded. If a deposit goes unclaimed or unused for one year, the deposit will be forfeited.
If you live on campus and withdraw from the University during the semester or summer term, you must check out with a Residential Living staff member. If a student moves out of a residence hall during the semester, the deposit will be forfeited. Students leaving Alpine during the semester to complete their student teaching, who are still enrolled, may check out of University housing without forfeiting their deposit.
You must complete the checkout procedures with the Residential Living staff at the end of your contract term. The living quarters must be clean, all trash and personal items removed, and the keys must be returned at the time of checkout. You will be assessed for any damages sustained during the occupancy period and/or for a cleaning charge if your room or housing unit is left unclean. Such charges will be deducted from your housing deposit or unused housing payment. If charges exceed your deposit or unused payment, you will be billed for the remainder of the damage charge.
Students who have paid housing fees during a regular semester and officially withdraw and check out of the residence hall or, if permitted, move out of the residence hall to live off campus, are entitled to a refund of housing fees as follows:
Prior to the first regularly Scheduled class day...................................................... 100\%
During the first five class days ............................................................................... $70 \%$
During the second five class days .......................................................................... $60 \%$
After the second five class days until the first installment plan due date .................... $40 \%$
After the first installment due date until the second installment due date ................... $15 \%$
After the second installment plan due date None

## Family Housing and Apartments

Rent is due at the beginning of each semester or can be set up on an installment plan. Rent fees may not be carried over to future academic terms. If rent is not paid within 30 days of the due date, the resident may be asked to leave. Rent charges begin when the key is issued and continue until the key is returned and checkout completed through the Residential Living Office. Residents are expected to move out within three days of the end of finals of the last semester for which they are enrolled or plan to live in University housing. All University housing units are completely furnished and include all utilities except telephone or cable. A background check is required for eligibility for apartments and family housing.

## CAMPUS ACTIVITIES \& RECREATION CAMPUS ACTIVITIES OFFICE

(Alpine Campus)
The Campus Activities Office, located in the University Center, Room 108, operates under the concept of a broad-based educational environment. Co-curricular activities, available through
campus organizations, including Sully Productions, offer valuable experiences which complement the educational mission of the University. Through Campus Activities, students are offered the opportunity to interact with other students, faculty, and staff, maximizing professional and personal development. Students are encouraged to take advantage of leadership opportunities and are supported through leadership training and communication with advisors. The Campus Activities staff members serve as resources to all campus organizations.

## STUDENT TRAVEL POLICY

The University sponsors numerous off-campus activities involving students. To effectively manage these activities, the University has developed guidelines, which may be found in the Student Life Office, UC 211 or in the RGC Student Services Office. These policies pertain to any official travel undertaken by one or more students to reach an event or activity that is located more than 25 miles from the campus. These policies are also to be in effect whenever a University vehicle is used or University funds are used to lease a vehicle. One individual who oversees the activity is identified as the responsible university official and is responsible for insuring compliance with this policy. For more information, visit: https://www.sulross.edu/wpcontent/uploads/2020/09/chapter 4.11 student travel and off-campus guidelines.pdf.

## CAMPUS ORGANIZATIONS

Campus organizations provide an important aspect of student life at the University. Membership in organizations enhances students' social, personal, career, and academic interests. The educational and recreational values gained from such membership are rewarding. The Campus Activities Office will assist organizations and help students interested in forming new organizations.

## STUDENT GOVERNMENT ASSOCIATION

The Student Government Association, as the student governance organization, exists for the sole purpose of serving the student community. The University recognizes the need for, and the worthwhile contribution of, student input in all facets of the University decision-making process. The Student Government Association is active in this regard and works for the betterment of student life and academic quality. The Student Government Association Senate meets bi-weekly in open meetings, and students are encouraged to participate in their government. Copies of the Constitution and other information may be secured at the Student Government Association Office, located in the University Center, Room 201. Student Associations on both the Alpine and RGC Campuses promote involvement in University Life.

## SULLY PRODUCTIONS

(Alpine Campus)
Sully Productions consists of students, faculty, and staff who volunteer their time to select, promote, and produce a variety of programs. Concerts, comedians, movies, and other activities are provided for little or no admission charge. Experience gained in working with Sully Productions can be of tremendous value while in school, as well as after graduation. For information about membership, contact the Campus Activities Office, Box C-190, Alpine, Texas 79832, or call (432) 837-8191.

## UNIVERSITY CENTER

## (Alpine Campus)

Located at the north end of the mall, the University Center is the focal point of campus life. This 8.5 million-dollar, 57,000 square foot facility is a gathering place for students, faculty, and staff
wishing to relax and visit with members of the University community. The University Center houses the offices of Student Life, UC Services, Career Services and Testing, Student Health Services, Campus Activities and the Student Government Association.
The University Center provides students with easy access to the bookstore, post office, food court, and an ATM. The Game Room has pool tables, flat screen television complete with Xbox One, PS4, arcade games as well as ping-pong and a variety of board games.
A variety of meeting rooms can accommodate groups from 30 to 300 , with state-of-the-art audio-visual equipment. These rooms are used extensively by campus groups, as well as organizations and individuals from the surrounding community. For information on room use, fees and configurations contact the UC Services Coordinator at (432) 837-8191 or visit our University Center website.

## RECREATIONAL PROGRAMS

(Alpine Campus)
The Recreational Sports Program at Sul Ross State University is housed at the Graves-Pierce Recreational Complex. As part of recreational programs, we offer a comprehensive Intramural Program. Intramural activities are both team and individual oriented which include offerings such as flag football, volleyball, basketball, indoor soccer, water polo, softball, kickball, dodge ball, and racquetball. These programs are open to all students, faculty and staff and are geared to both competitive and recreational sides.
Wellness and Fitness Classes are offered daily in the Graves-Pierce Complex. These classes include Yoga, Pilates, BOSU, Tai Chi, Spinning, Self Defense, Dance, Qigong, and Meditation. The Schedule is set at the beginning of each semester and is determined by the instructor. Please stop by and try something new and challenging to both your body and mind.
The Graves-Pierce Complex has numerous opportunities for you to exercise or take part in drop-in activities. The Complex has three racquetball/handball courts, basketball/volleyball court, indoor track, cardio room, weight room, dance studio, sauna, and locker rooms.
The Swimming Pool is another amenity we have on campus. The pool is heated using solar power and has recently been changed to a salt-water pool. It is a great way to get in a full body workout or just come and relax and have a good time. The hours of operation are determined at the start of each semester.
The university Rec Field is located between Jackson Field and the softball field and offers multiple sport field lines for student, club, and community use.
Employment opportunities in the Recreational Sports Department abound. From Intramural officials in basketball, flag football, and many others, to front desk attendants, lifeguards, and special events staff. For more information, contact us at 432-837-8299.

## ATHLETICS

(Alpine Campus)

## INTERCOLLEGIATE ATHLETICS

Nationally, Sul Ross is a member of the National Collegiate Athletic Association (NCAA Division III). At the conference level, Sul Ross is a member of the American Southwest Conference, a coeducational, non-athletic scholarship conference. The program provides an opportunity for men to participate in football, basketball, baseball, soccer, and tennis. Sports for women include volleyball, softball, basketball, soccer, and tennis. Specific questions about the program and student eligibility for participation should be directed to the Athletic Director.

Sul Ross is a founding member of the National Intercollegiate Rodeo Association. Because Sul Ross rodeo team members were instrumental in founding the organization, and the charter was signed at Sul Ross, we are often referred to as the "Birthplace of Intercollegiate Rodeo." Men's and Women's teams compete in the Southwest Region.

## PHILOSOPHY OF ATHLETICS

Intercollegiate athletics exist at Sul Ross for the benefit of our students and to provide, among other benefits, a training ground for those who desire to develop their coaching and teaching skills for careers after graduation in public schools and beyond. The philosophy of NCAA Division III athletics is to provide opportunities for athletic participation and competition in the spirit and tradition of college life and activities. Since no student athlete received financial aid for their participation, coaches and other faculty members should make it clear to each participating athlete that their primary commitment and obligation is to complete a course of study leading to a degree in a field of their choosing. Student athletes are students first and shall be held to academic and disciplinary standards that are comparable to those expected of all other students in order to participate in their chosen co-curricular activities.
It is the responsibility of the coaches to conduct themselves as appropriate to provide examples for their student athletes, to recruit student athletes who have the character and ability to participate with honor and dignity, and to ensure that these student athletes maintain their academic and disciplinary eligibility. Coaches are expected to ensure that students learn teamwork and fair play in a competitive atmosphere. Coaches and students should always conduct themselves in a manner that reflects personal integrity and brings honor and respect to themselves and to Sul Ross.
Thus, at Sul Ross State University, we expect student athletes to return each year and graduate. We further expect to field teams that seek to be competitive at the conference, regional, and national level.
Sul Ross athletics emphasize the total well-being of the student athletes. In order to achieve this emphasis, the athletic program at Sul Ross will:

1. Maximize the number and variety of athletic opportunities in varsity and intramural sports.
2. Ensure that student athletes receive the same treatment as other students with no special privileges in admissions, academic advising, course selection, grading, living accommodations, or financial assistance. Similarly, student athletes will not be denied rights or opportunities that would be available to them as non-athletes.
3. Control, finance, and staff the athletics program through the same general procedures as other departments of the university.
4. Give equal emphasis to men's and women's sports, and ensure that the desired quality of competition is similar in all sports.
5. Support student athletes in their efforts to achieve high levels of performance by providing them with adequate facilities, competent coaching and comparable competitive opportunities with student athletes from similar institutions, and
6. Give primary emphasis to in-season competition, but exceptional teams and individuals may participate in post championship play.

## ELIGIBILITY FOR ATHLETICS

A student-athlete may represent Sul Ross State University in intercollegiate athletics competition only when that student-athlete is in compliance with all applicable provisions of the constitution and bylaws of the National Collegiate Athletic Association (Division III), all eligibility rules established by the American Southwest Conference, and all local eligibility requirements established by the University Athletics Council.

1. Good Standing with the University. In order to compete in intercollegiate athletics, the student-athlete shall not currently be on any type of University probation, either academic or disciplinary. Student athlete must be making satisfactory progress toward a baccalaureate degree.
2. Satisfactory Progress. Satisfactory progress means that a student-athlete must maintain at least a 2.00 cumulative grade point average and have accumulated the following semester credit hours:
3. Second Season. To participate in the second season in a sport the student-athlete must have accumulated at least twenty-four semester credit hours ( 24 SCH) which can be applied to the student-athlete's degree plan.
4. Third Season. To participate in the third season in a sport the student must have accumulated at least forty-eight semester credit hours (48 SCH) which can be applied to the student-athlete's degree plan.
5. Fourth Season. To participate in the fourth season in a sport the student-athlete must have accumulated at least seventy-two semester credit hours ( 72 SCH) which can be applied to the student-athlete's degree plan.
6. Full Time Enrollment. According to the NCAA bylaws a student-athlete shall be enrolled in at least 12 semester credit hours ( $12 \mathbf{S C H}$ ) to be eligible for intercollegiate competition. This is known as the 12-hour enrollment rule. However, graduate students who have received an undergraduate degree from SRSU may compete while enrolled in at least 9 semester credit hours ( 9 SCH ) of graduate courses.
7. Repeat Courses. Undergraduates may count a maximum of one repeat course passed with a grade of "D" per semester or the Inter-Term towards satisfying the 12-hour enrollment rule. Repeat courses previously passed with a grade of "C" or better shall not count toward satisfying the 12-hour enrollment rule.
8. Inter-term Courses. Courses taken during an Inter-term shall be included on the transcript for the Fall or Spring semester as selected by the student-athlete.
9. Developmental Courses. Developmental courses required by the University may be used to satisfy the 12-semester credit hour rule and included in the student-athlete's grade point average for eligibility purposes. However, developmental courses may not be used to satisfy the total of required semester credit hours for the third and fourth seasons of competition.

Student-athletes may appeal to have their eligibility restored if there are mitigating circumstances related to their academic progress. All appeals must be submitted to the Athletics Council in writing, with copies of all transcripts, degree plans, and extensive documentation of any mitigating circumstances. The decision of the Athletics Council will be final.

## ALUMNI AFFAIRS OFFICE \& SUL ROSS ALUMNI ASSOCIATION

Alumni Affairs acts as a liaison between the University and former students and operates the Sul Ross State University Alumni Association. The Alumni Association keeps alumni informed and connected to the University by providing them with news, social and professional networking activities, and opportunities for service. For more information, visit the Alumni Association webpage at https://www.sulross.edu/alumni/.

## UNDERGRADUATE ADMISSIONS

Sul Ross State University accepts applications for admission from students of accredited secondary schools and students transferring from accredited colleges without regard to race, color, sex, age, religious commitment, or national origin. Any person who desires to apply for
admission should contact the Center for Enrollment Services, Box C-2, Sul Ross State University, Alpine, Texas 79832 or the Office of Admissions and Records for RGC: 830-7034808 Del Rio, 830-758-5005 Eagle Pass, 830-279-3004 Uvalde, or go to Apply Texas.
Sul Ross State University requires the same personal standards and applies the same criteria in considering applications for admission as it uses in the retention of students who are enrolled.
To be consistent with this policy, the University reserves the right to refuse acceptance to prospective or former students who are on disciplinary suspension or expulsion from any college or university, or who have committed other offenses of serious nature, which, in the judgment of the University, are likely to have an adverse effect on the University. The personal standards of conduct expected of students who enroll at Sul Ross State University are provided in the Student Code of Conduct contained in the Student Handbook.

## Beginning Freshman Students (Alpine Campus)

A beginning freshman student (has not attempted college hours after high school graduation) must graduate from an accredited high school on the foundation or recommended graduation program and submit ACT or SAT test scores.
Admissions Requirements for Students on the Recommended/Distinguished/or Foundation with Endorsements High School Graduation Plan

| Rank in Class | Minimum ACT <br> Composite Score | Minimum SAT <br> (Total Score) |
| :--- | :--- | :--- |
| Top Half | Submit Scores - No <br> Minimum Required | Submit Scores-No <br> Minimum Required |
| Third Quarter | 20 | 1040 |
| Fourth Quarter | 20 | 1040 |

Items necessary for admissions:

- The online ApplyTexas.org application with the non-refundable $\$ 25.00$ application fee for domestic students (\$75 for international applicants).
- ACT and/or SAT test scores.
- Copy of high school transcript showing class rank. Upon graduation from high school, applicant must provide a final official high school transcript showing final class rank, date of graduation, and graduation plan.
A beginning freshman student who has attempted college/university course work while enrolled in high school or in the semester prior to entering Sul Ross State University must provide official transcripts(s) showing the completion of all hours.


## Probationary Admission for Beginning Freshman

Applicants, NOT meeting the above standards may be considered for probationary admission on an individual basis. Because of changing demographic trends, diversity, and population increases in the state, Sul Ross State University will consider the following factors in making first-time freshman admissions decisions:

- Specific class rank (on a seven-semester transcript)
- Size of the graduating class
- Quality and competitive level of high school courses taken and grades earned (e.g., AP, Honors classes, Dual Credit)
- Academic progress and achievements
- Region of residence, and
- Scores on either the ACT or SAT

Graduates of a Non-Traditional High School, Including Home School Sul Ross State University admits qualified students graduating from non-traditional high schools.

- For admission, a high school class rank is required. If your high school does not rank, the Office of Admissions will assign you a class rank based on the directives of SB 1543.
- Present a notarized high school/home schooled transcript that meets the Texas State Graduation Requirements as approved by the State Board of Education. (see Texas Administrative Code (TAC) Chapter 74)
- The Apply Texas application with non-refundable $\$ 25.00$ application fee.
- ACT Composite and/or SAT Total score report.
- Meet admissions requirements listed above


## Students Who Earned the GED

Sul Ross State University admits qualified students who have earned their GED and who score at least 20 on the ACT Composite or 1040 on the SAT Total score and submit the following documentation.

- The Apply Texas application with non-refundable $\$ 25.00$ application fee.
- ACT and/or SAT Total score report.
- Official copy of GED certificate.


## Individual Admissions

Sul Ross State University admits students who have earned their high school diploma or GED and are age 24 or older at the time of application. These students must submit the following documentation:

- The Apply Texas application with non-refundable $\$ 25.00$ application fee
- Official copy of GED certificate with GED test scores or official copy of final high school transcript showing date of graduation
Individually admitted students are not required to take or provide ACT or SAT scores but they must take the Texas State Initiative Assessment (TSIA) placement exams prior to advising and registration.


## Transfer Students

A transfer student is defined to mean an undergraduate student who has attempted transferable academic course work from an accredited college or university. "Transferable academic course work" is defined to mean those attempted hours of course work which are applicable to a baccalaureate degree program.

## Transfer Students from U.S. Colleges or Universities (Alpine Campus)

Undergraduate students who transfer to Sul Ross State University from another regionally accredited college or university with less than 12 transferable academic hours must meet the standards of beginning freshman students (see Beginning Freshman Students above) and must provide the following documentation.

- The Apply Texas application with non-refundable $\$ 25.00$ application fee.
- Official transcript(s) from all accredited colleges and universities attended.
- Official transcript(s) indicating the completion of 12 or more collegiate academic hours Undergraduate students, who transfer to Sul Ross State University from another regionally accredited college or university with 12 or more transferable academic hours, as defined by this policy, must provide the following documentation.
- The Apply Texas application with non-refundable $\$ 25.00$ application fee.
- Official transcript(s) from all accredited colleges or universities attended.

Official transcript(s) indicating the completion of 12 or more transferable academic hours (excluding developmental, remedial, vocational/technical, continuing education, or lifelong learning courses). All students must present a cumulative transfer grade point average based on the following:

## Total College Hours Minimum Grade Point Average Undertaken: Required for Admission: <br> Less than 122.0 overall collegiate GPA and meet first time in college admissions requirements

12 or more 2.0 overall GPA
Students who are currently suspended from another college or university are not eligible for admission to Sul Ross State University.

## Former Students

All former SRSU students who did not attend one long semester (fall or spring) must submit an application for undergraduate admission in order to re-enter Sul Ross State University. Any former SRSU student who attends another institution is responsible for complying with the requirements outlined above for "Transfer Students".
A student who leaves Sul Ross State University on scholastic probation is readmitted on scholastic probation, even if the student has attended another institution after leaving and reentering Sul Ross State University.

## Admission of Undergraduate International Students

All undergraduate international students must file the Texas Common Application and pay the non-refundable $\$ 75.00$ application fee in U.S. currency.
Sul Ross State University has five categories of undergraduate international students: beginning freshmen who have graduated from a high school outside the United States, beginning freshmen who have graduated from a high school in the U.S., transfer students who have attended a college or university from outside the U.S. and have obtained 60+ hours or an associate degree, and transfer students who have attended a college or university in the U.S. and have obtained less than 60 hours.
International students who are beginning freshmen graduating from a high school outside the U.S. must provide the following:

- TOEFL minimum score: 520
- Official high school transcript
- Evaluation or high school transcript from an accredited evaluation company
- Support documents (see Requirements for Registration by Undergraduate International Students below)
International students who are transfer students and attended a college or university outside the U.S. must provide the following:
- TOEFL minimum score: 520
- Official transcripts from all colleges/universities attended
- Evaluation of all transfer work from an accredited evaluation company
- Support documents (see Requirements for Registration by Undergraduate International Students listed below)
International students who are transfer students who attended a college or university in the U.S. and have obtained 60+ hours or an associate degree must provide the following:
- Official transcript from all colleges/universities attended
- Support documents (see Requirements for Registration by Undergraduate International Students listed below)
- Copies of all immigration documents

International students who are transfer students who attended a college or university in the U.S. and have obtained less than 60 hours must provide the following:

- TOEFL minimum score: 520 if English is not main language spoken
- Official transcripts from all colleges/universities attended
- Support documents (see Requirements for Registration by Undergraduate International Students listed below
- Copies of all immigration documents


## Requirements for Registration by Undergraduate International Students

To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Center for Enrollment Services immediately upon arrival on campus.
All international students are required to provide the following information 30 days in advance of registration. Applications will not be processed, and no authorization for a Visa (1-20) can be issued until the following is satisfactorily met.
A. Evidence of Financial Responsibility. This may be satisfied by an Affidavit or Support (Immigration Service Form I-134) or a signed statement from a U.S. citizen or foreign national committing the necessary resources in U.S. dollars for student's entire educational expenses.
B. Evidence of English language proficiency as demonstrated by any one of the following: TOEFL minimum score: 520
2. TOEFL minimum score: 520 or
3. Twenty-four hours of undergraduate work with a C average at an accredited U.S. college or university, or 12 graduate hours with a B average at an accredited U.S. college or university; or
4. A bachelor's or master's degree from an accredited U.S. college or university; or
5. Prospective students may petition the Dean of the College in which the major resides in writing requesting an individual oral assessment of English proficiency. Applications 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 Registrar will notify the student of the decision in writing.
C. An application fee of $\$ 75$ in U.S. currency (non-refundable).
D. A housing deposit of $\$ 200$ in U.S. currency.
E. Health insurance and immunization records.

## Transient and Special Students

Transient - A student who is pursuing a degree at another institution may be considered for transient admission. The student must present an official transcript showing good standing from the college in which the student is pursuing a degree and proof of compliance with TSI requirements. Transient admission is granted for a maximum of twenty-four semester credit hours. Credit earned as a transient student may be applied toward a degree at Sul Ross AFTER regular admission is granted.
Special - A student over 21 years of age who does not intend to work toward a degree at Sul Ross and who has a high School diploma from an accredited high School or a GED may be admitted to Sul Ross to enroll in a part-time schedule for enrichment purposes. Credit earned as a special student may be applied toward a degree at Sul Ross AFTER regular admission is granted. At that time, a student may be required to take and pass the TSI test.

## Early Admission (Dual Credit High School Credit)

The Early Admission Program enables qualifying secondary School students to take a limited number of courses at Sul Ross while enrolled in the secondary School. The purpose of the program is to encourage students to complete secondary school graduation requirements while simultaneously earning credit toward a university degree.

Secondary School students wishing to participate in the Early Admission Program must meet the following requirements:

- Submit a completed Apply Texas application
- Submit an official transcript of high school records
- Submit a completed SRSU Dual Credit Form with all signatures (student, parent, counselor or principal)
- Evidence of college readiness in the area of enrollment

The requested documents and supporting material must be on file in the Center for Enrollment Services no later than the last day of regular registration of each semester.

## Appeals Process for Undergraduate Admissions

An applicant who has been denied admission may appeal that decision in writing to the Undergraduate Admission Appeals Committee, Center for Enrollment Services, Box C-2, Alpine, Texas 79832.
TRANSFER STUDENTS FROM U.S. COLLEGES AND UNIVERSITIES (RGC Campus)
The Middle Rio Grande College of Sul Ross State University accepts applications for admission from students who have completed a minimum of 42 transferable semester credit hours from accredited colleges and universities. Any person who desires to apply for admission should contact the Office of Admissions and Records, Sul Ross State University- Rio Grande College, 3107 Bob Rogers Drive, Eagle Pass, Texas 78852; or the other offices of the Rio Grande College, 2623 Garner Field Road, Uvalde, Texas 78801; or Rio Grande College, 205 Wildcat Drive, Del Rio, Texas 78840, or www.applytexas.org.
Students may also apply for admission to Sul Ross State University Rio Grande College the common application page for state-supported colleges in Texas at https://www.applytexas.org. Students should request a degree plan from their major advisor as soon as possible upon acceptance. This should be done at the beginning of the first semester of enrollment.

## Full Admission

To be considered for admission to the Rio Grande College of Sul Ross State University, a student must have completed a minimum of 42 transferable semester credit hours with a 2.0 GPA from an accredited college or university, be eligible for enrollment in upper level courses, and be eligible for readmission to the last college or university attended. The student must also meet the minimum 2.0 grade point average for all courses attempted. While not required for admission, students are urged to complete the Texas Required Core Curriculum before beginning at SRSU RGC.
Students must:

1. File an application for admission. Failure to list all institutions previously attended constitutes falsification of records and may result in enforced withdrawal from the University and loss of credit earned toward degree requirements at Sul Ross State University.
2. File an official transcript from each college in which the student was previously enrolled, regardless of type of enrollment or intent to transfer credits. Transcripts must be sent directly to the Office of Admissions and Records at Sul Ross State University Rio Grande College from the Registrar of the issuing institution. If the college grade point average does not meet the grade point average requirement of admissions criteria above, the student's application will be rejected.

## GENERAL CAMPUS REGULATIONS AND CONDUCT

All students are expected to conduct themselves in a manner consistent with the University's functions as an educational institution. It is also expected that all students who enroll at Sul

Ross State University agree to assume the responsibilities of citizenship in the university community. Association in such a university community is purely voluntary, and any student may resign from it at any time when he/she considers the obligation of membership disproportionate to the benefits. All students are subject to University authority, and those students whose conduct is not within the policies of the University rules and regulations are subject to dismissal. Students are responsible for abiding by all published University rules and regulations. Failure to read publications will not excuse the student from the requirements and regulations described therein. The SRSU Student Handbook and other official University publications outline specific regulations and requirements.

## PRIVACY RIGHTS OF STUDENTS

Notice is hereby given that 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 830-7585006.

## CAMPUS SEX CRIMES PREVENTION ACT

SRSU is in compliance with the Campus Sex Crimes Prevention Act (Section 1601 of Public Law 106-386), Jacob Wetterling Crimes Against Children and Sexually Violent Offender Registration Act, Jenne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, and Family Educational Rights and Privacy Act of 1974. Sex offenders are required to register at the University Department of Public Safety in BAB 100 when the offender is employed, carries on a vocation, or is a student at SRSU.

## GENERAL ACADEMIC REGULATIONS

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

## 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 first 60 semester credit hours.

Academic Support Center professional advisors are responsible for advising all first-time freshmen, transfer students under 60 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 until they achieve 60 semester credit hours at which time the student will be transitioned to their major department 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 nonadministered 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 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 forconsideration. The selection is made by a faculty/student committee.

## National Honor Societies

Honor societies recognize and encourage high academic scholarship. Selection to anhonor 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 lota 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 forstudents 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

|  | Cumulative GPA for | Cumulative GPA for <br> Scholastic Dismissal(Applied <br> ocho to those on Scholastic |
| :--- | :---: | :---: |
|  | Scholastic <br> Ondy to thations <br> 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 |

## 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 averagefor 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, Chiropracty, Medical Technology, Optometry Christopher Ritzi (Biology) Engineering $\qquad$ Angela M. Brown (Mathematics)
Physical Therapy Christopher Ritzi (Biology)
Veterinary Medicine
Jamie Boyd (Animal Science)

## 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.

## 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 Universitysponsored 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

If you first enrolled at a Texas public university or college in Fall 1999 or more recently, your degree requirements include a Texas Core Curriculum (TCC.) Each institution establishes a set of courses for students to take in fulfillment of the TCC. The Sul Ross State University TCC courses are listed below. A course approved as TCC at one institution must be applied to the student's set of core courses at any other institution. If you are transferring to Sul Ross from a Texas public institution and are "core complete", you are not required to complete any of these courses in fulfillment of TCC. If transferring to Sul Ross from a Texas public institution and are not "core complete," all TCC courses taken at the transfer institution will be applied to the appropriate area of the TCC at Sul Ross. Any areas not complete must be completed here at Sul Ross.

If you are transferring to an RGC program, you must complete your core curriculum at the transfer institution. Consult that institution's Catalog for their core requirements.
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. Therefore, switching institutions has become easier, butchanging 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.

| Component Area | SCH | SRSU Subject and <br> Number | TCCN Subject and <br> Number |
| :--- | :--- | :--- | :--- |
| 010 Communication | 6 | ENG 1301 | ENGL 1301 |
|  |  | ENG 1302 | ENGL 1302 |
|  | 3 | ENG 2311 | ENGL 2311 |
| 020 Mathematics |  | MATH 1332 | MATH 1332 |
|  | MATH 1314 | MATH 1314 |  |
|  |  | MATH 1316 | MATH 1316 |
|  |  | MATH 1342 | MATH 1342 |
|  | MATH 2413 | MATH 2413 |  |
| 030 Life and Physical Sciences | 6 | ASTR 1303 | ASTR 1303 |
|  |  | ASTR 1304 | ASTR 1304 |
|  |  | BIOL 1311 | BIOL 1311 |
|  |  | BIOL 1313 | BIOL 1313 |
|  |  | BIOL 1306 | BIOL 1306 |
|  |  | BIOL 1307 | BIOL 1307 |
|  |  | BIOL 2301 | BIOL 2301 |
|  |  | BIOL 2321 | BIOL 2302 |
|  |  | CHEM 1311 | BIOL 2321 |
|  | CHEM 1311 |  |  |
|  |  | CHEM 1312 | CHEM 1312 |
|  |  | GEOL 1303 | GEOL 1303 |
|  |  | GEOL 1304 | GEOL 1304 |
|  |  | GEOL 1305 |  |



|  |  | ENG 2315 |  |
| :--- | :--- | :--- | :--- |
|  |  | ENG 2322 | ENGL 2322 |
|  |  | ENG 2323 | ENGL 2323 |
| Total SCH | 42 |  |  |

Each of the degree requirements listings includes the core curriculum requirements.

## Deadlines for Completion of Core Requirements

The communication, mathematics, and component area option requirement of the core curriculum must be completed within the first 45 semester hours of enrollment. If the requirement is not completed by the time a student has accumulated 45 semester credit hours, the student must register for the required course(s) until the required components have been completed. This applies to transfer students as well as continuing students.

## 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 |
| :--- | :--- | :--- |
| $\mathbf{A}$ | Excellent | 4 |
| $\mathbf{B}$ | Good | 3 |
| $\mathbf{C}$ | Average | 2 |
| $\mathbf{D}$ | Poor | 1 |
| F | Failure | 0 |
| F0 | Failure/Never Attended | 0 |
| FX | Failure/Stopped Attending | 0 |
| $\mathbf{C R}$ | Incomplete | 0 |
| NC | Credit | Not Computed |
| NG | No Credit | Not Computed |
| NR | No Grade | Not Computed |
| $\mathbf{P}$ | Not Reported | 0 |
| PR | Pass | Not Computed |
| $\mathbf{W} / \mathbf{W X}$ | Progress | Not Computed |

## Incomplete Grades

The grade of " l " is given by the instructor upon consultation with the student. The work to be completed and the deadline for completion must be communicated to the Registrar in writing. A student may complete any outstanding work and a permanent grade assigned by 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 "l" 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.

## Not 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"

## 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

| Sym. | Purpose |
| :--- | :--- |
| E | Repeated Course |
| I | Repeated Course |
| \# | Developmental Grade |

Quality Points<br>Not Computed<br>Highest Grade Computed<br>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 grades 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 $\times 3$ 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 complete 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 nondegree 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 otherstudents.

## 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 432-8378178 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 | $\begin{aligned} & \text { BIOL 1311/1111, } \\ & 1313 / 1113 \end{aligned}$ | 8 | 50 |
| General Psychology | PSY 1302 | 3 | 50 |
| Human Growth and Development | ED 3304 | 3 | 50 |
| Introduction to Management | MGT 3360 | 3 | 50 |
| Tntroduction to Accounting | ACC 2301, 2302 | 6 | 50 |
| Introductory Business Law | GBA 3351 | 3 | 50 |
| Introductory Microeconomics | ECO 2302 | 3 | 50 |
| Tntroductory 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:

| DANTES | University Course and Number | Semester Credit Hours Awarded | Minimum Grade |
| :---: | :---: | :---: | :---: |
| 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 |
| TechnicalWriting | 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:

|  | Sul Ross State <br> University Course <br> and Number | Semester Credit <br> Hours Awarded | Minimum Grade |
| :--- | :--- | :---: | :--- |
| History of Art | ART 1303, 1304 | 6 | 3 |
| Biology | BIOL 1311/1111 <br> BIOL 1313/1113 | 8 | 3 |
| Chemistry | CHEM 1311/1111 <br> CHEM 1312/1112 | 8 | 3 |
| Computer Science A | CS 1309 | 3 | 3 |
| Economics -    <br> Microeconomics ECO 2302 3 3 <br> Economics - ECO 2301 3 3 <br> Macroeconomics    |  |  |  |


| 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 <br> Hours | Equivalent SRSU <br> Course | Texas Common <br> Course Number |
| :--- | :---: | :--- | :--- |
| Biology | 8 | BIOL 1311/1111, <br> $1313 / 1113$ | BIOL 1311/1111, BIOL <br> $1313 / 1113$ |
| Business Management | 6 | FIN 3340, MGT 3360 | N/A |
| Chemistry | 8 | CHEM 1311/1111, <br> $1312 / 1112$ | CHEM 1111, 1311, |
|  |  | ECO 2301, 2302 | ECON 2301, 2302 |
| Economics | 6 |  |  |


| English | 6 | ENGL 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, <br> 1302/1102 | PHYS 1301/1101, |
| Psychology | 3 | PSY 1302 |  |
| Spanish | 8 | SPAN 1411, 1412 | SPAN 1411, 1412 |

Grades accepted: 7 or $\mathbf{6}=\mathrm{A}, 5$ = B for the following:

| Standard Exam | Credit <br> Hours | Equivalent SRSU <br> Course | Texas Common <br> Course Number |
| :--- | :---: | :--- | :--- |
| Art | 3 | ART 1301 | ART 1301 |
| Economics | 6 | ECON 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 <br> Hours | Equivalent SRSU <br> Course | Texas Common <br> Course Number |
| :--- | :--- | :--- | :--- |
| Biology | 8 | BIOL 1311/1111, <br> $1313 / 1113$ | BIOL 1311/1111, BIOL <br> $1313 / 1113$ |
| Chemistry | 8 | CHEM 1311/1111, <br> $1312 / 1112$ | CHEM 1111, 1311, |
| Computer Science | 3 | CS 1301 | COSC 13012, 1312 |
| Mathematical Studies | 6 | MATH 1314, 1316 | MATH 1314, 1316 |
| Mathematical Studies | 7 | MATH 1316, 2413 | MATH 1316,2413 |
| Physics | 8 | PHYS 1301/101, | PHYS 1301/1101, |
|  |  | $1302 / 1102$ | $1302 / 1102$ |

Grades accepted: 7 \& 6 =A, 5 = B for the following:

| Standard Exam | Credit Hours | Equivalent SRSU Course | Texas Common <br> 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 <br> 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 <br> Course Number |
| :--- | :--- | :--- | :--- |
| French | 14 | FREN 1411, 1412, 2311, | FREN 1411, 1412, 2311, |
|  |  | 2312 | 2312 |


| German | 14 | Language Requirement | GERM 1411, 1412, |
| :--- | :--- | :--- | :--- |
|  |  |  | 2311,2312 |
| Spanish | 14 | SPAN 1411, 1412, 2311, | SPAN 1411, 1412, 2311, |
|  | 2312 | 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 <br> Score | SAT Critical Reading <br> Score (SAT prior to <br> March 2016) | SAT Reading Score <br> (effective March 2016) | Credit: |
| :--- | :--- | :--- | :--- |
| $30+$ | $588+$ | $32+$ | ENG 1301 |

2. Mathematics

| ACT Math Score | SAT Math Score (SAT <br> prior to March 2016) | SAT Math Score <br> (effective March 2016) | Credit: |
| :--- | :--- | :--- | :--- |
| $30+$ | $603+$ | $620+$ | MATH <br> 1314 |

Any credit awarded will be recorded on the student's transcript after the successfulcompletion 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 Service 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, (32) 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. Cumulative Grade Point Average

| SRSU <br> Sub | Num | Title |  | TCCNS Equivalent |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| ACCA | 2301 | Principles of Accounting I | ACCT | 2301 | Principles of Financial <br> Accounting |  |
| ACCA | 2302 | Principles of Accounting II | ACCT | 2302 | Principles of Managerial <br> Accounting |  |
| ANSC | 1419 | General Animal Science | AGRI | 1419 | Introductory Animal |  |
| 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 <br> the 14th Century) |  |
| INDEX |  |  |  |  |  |  |


| 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 |
| 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 | BIOL | 2101 | Anatomy \& Physiology I |
| BIOL | 2102 | Anatomy \& Physiology II | BIOL | 2102 | Anatomy \& Physiology II |
| 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 | 2404 | Anatomy and Physiology | BIOL | 2404 | Anatomy \& Physiology (lecture +lab ) |


| BIOL | 2406 | Environmental Biology | BIOL | 2406 | Environmental Biology (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 |
| CJ | 2323 | Legal Aspects of Law Enforcement | CRIJ | 2323 | Legal Aspects of Law Enforcement |
| CJ | 2328 | Police Systems \& | CRIJ | 2328 |  |
| COMM | 1307 | Introduction to Mass Communication | COMM | 1307 | Introduction to Mass Communication |
| COMM | 1311 | Introduction to Speech Communication | SPCH | 1311 | Introduction to Speech Communication |
| COMM | 1318 | Interpersonal Communication | SPCH | 1318 | Interpersonal Communication |
| COMM | 1320 | Business and Professional 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 |
| 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 |
| GBA | 1301 | Business Principles | BUSI | 1301 | Business Principles |
| GEOG | 1302 | World Regional | GEOG | 1303 | World Regional |
| GEOL | 1103 | Physical Geology Lab | GEOL | 1103 | Physical Geology Lab |
| GEOL | 1104 | Historical Geology Lab | GEOL | 1104 | Historical Geology Lab |
| GEOL | 1105 | Environmental Geology | GEOL | 1105 | Environmental Science |
| 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 <br> States to 1877 | HIST | 1301 | United States History I |
| HIST | 1302 | History of the United <br> 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 | MUSI | 1181 | Piano Class I |
| JOUR | 2311 | News Gathering and | COMM | 2311 | Media Writing |
| MAS | 2301 | Introduction to Mexican- | HUMA | 1305 | Introduction to Mexican- <br> American Studies |
| MUS | 1117 | Elementary Sight Singing | \& Ear Training II | MUSI | 1117 | | Sight Singing \& Ear |
| :--- |
| MUaining II |


| 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 |
| 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 |
| 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 |
| PSY | 2304 | Introduction to Social Psychology | PSYC | 2319 | Social Psychology |
| PSY | 2307 | Introductory Statistic for the Behavioral Science | PSYC | 2317 | Statistical Methods in Psychology |
| PSY | 2309 | Human Sexuality | PSYC | 2306 | Human Sexuality |
| PSY | 2310 | Developmental Psychology | PSYC | 2314 | Lifespan Growth \& Development |
| 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 | 1310 | Introduction to Theatre | DRAM | 1310 | Introduction to Theater |
| THEA | 1322 | Stage Movement | DRAM | 1322 | Stage Movement |


| THEA | 1351 | Acting I | DRAM | 1351 | Acting I |
| :--- | :--- | :--- | :--- | :--- | :--- |
| THEA | 2120 | Theatre Practicum III | DRAM | 2120 | Theater Practicum III |
| THEA | 2121 | Theatre Practicum IV | DRAM | 2121 | Theater Practicum IV |
| THEA | 2331 | Stagecraft | DRAM | 2331 | Stagecraft II |
| THEA | 2336 | Voice for the Theatre | DRAM | 2336 | Voice for the Theater |

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 credithours.
- 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.
- At least twenty-four semester hours of the last thirty hours presented for a degree must be 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.

## 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 3credit 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

Education records are defined by FERPA 34 CFR 99.3 as follows:
(a) Educational records includes 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 $\S 99.8$.
(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. $1232 \mathrm{~g}(\mathrm{a})(4)$ )

## 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<br>Social Security Number<br>Financial Status<br>Date and location of birth<br>Salary History<br>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.

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. 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 re-submitted 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.

## 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.

## 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 articulationagreements 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.
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. The refund policy for dropped courses and withdrawals may be found in this catalog and online at www.sulross.edu.

## Residency

Please see Graduation Requirements - Residency.

## 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.

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. a severe illness or other debilitating condition that affects the student's ability to satisfactorily complete the course;
B. 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;
C. 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;
D. 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;
E. 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;
F. the loss of transportation causing the student a hardship with the commute to the campus;
G. the loss of child care that necessitates student to remain at home with dependent children; or,
H. 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 postsecondary 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 entitiled 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 administrating 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 AND NATURAL RESOURCE SCIENCES
Department of Animal Science
Animal Science B.S., M.Ag., M.S.
Concentrations in Agricultural Education, Pre-Veterinary Medicine, Production, andScience
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 ManagementNatural Resource ConservationM.Ag.
Range and Wildlife Management ..... M.S.
COLLEGE OF ARTS AND SCIENCES
Academic Center for Excellence
Department of Behavioral and Social Sciences 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 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 Fine Arts and Communication
Art ..... B.F.A., M.A.
Concentrations in Art History and Studio Art
Communication ..... B.A.
Concentrations in Broadcast Media, Interpersonal, Secondary Certification,Strategic Communication
MusicB.M.
Concentrations in Instrumental and Vocal
Theatre ..... B.F.A.
Concentration 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.
Department of Education
Education, General* ..... M.Ed.
Educational Diagnostician ..... M.Ed.
Counselor Education ..... M.Ed.
Educational Leadership* ..... M.Ed.
Reading* ..... M.Ed.
Educational Instructional Technology ..... M.Ed.
Interdisciplinary Studies ..... B.S.
Department of Homeland Security and Criminal Justice
Criminal Justice* B.S., M.S.
Homeland Security ..... B.S., M.S.
Department of Kinesiology and Human Performance Health and Human Performance ..... M.S.
Kinesiology and Human Performance ..... B.S.
Concentrations in, Sport and Recreation, Athletic Training, and Teacher Certification
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.A.
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 SITESCurrently, there are thirteen degree plans offered at the Rio Grande College off-campus instructional sites (Del Rio, Eagle Pass, and Uvalde) and the Alpinecampus. These 13 common degree plans are designated with a yellow asterisk andlisted 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 REQUIREMENT (Alpine Campus)
(1 semester credit hour)
SRSU 1101 or equivalent (for details, see First Year Seminar) 1 semestercredit 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
General Studies*
History
Psychology
Social Science
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*
Art*
Biology
Business Administration
Chemistry*
Communication*
Computer Science*
Criminal Justice
Diversity Studies*

English
Environmental Studies*
Geography*
Geology*
History
Journalism*
Kinesiology*
Mathematics
Mexican American Studies*

Photography*
Political Science*
Professional Comm \& Design*
Psychology
Recreation Administration*
Sociology*
Spanish
Theatre*
Women's Studies*

Education*
*Alpine campus only

## Additional Requirements

1. The student must complete additional hours to total 120 semester credithours.
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 credithours.
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 OR 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 credithours.
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 REQUIREMENT

(1 semester credit hour)
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 credithours.
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* <br> *Alpine campus | Industrial Technology* y | Natural Resource Management* |

## 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* <br> *Alpine campus only | Mexican American Studies* |  |
| ditional 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 REQUIRMENTS

$>$ A minor is not required.

## Additional Requirements

1. The student must complete additional hours to total 120 semester credithours.
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 AGRICULTURE, LIFE \& PHYSICAL SCIENCES 

Office: Everett. E. Turner Range Animal Science 111 \& Warnock Science Building 316 Phone: (432) 837-8001
E-mail: ALPS@sulross.edu
Dean: Dr. Bonnie J Warnock
The College of Agriculture, Life, and Physical Sciences serves students that will be the next leaders in the diverse and dynamic STEM fields. The college houses four academic departments: the Department of Agriculture and Industry, the Department of Computer, Mathematical, and Physical Sciences, the Department of Natural Sciences, and the Department of Nursing. The Borderlands Research Institute and Rio Grande Research Center and Rodeo program provide opportunities for undergraduate and graduate students to participate outside of the formal classroom.
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; Industrial Technology including manufacturing, construction, and supply chain management; Computer Science including the fields of devices, cybersecurity, gaming and digital art; Mathematics including general math applications and teacher certification; Chemistry including inorganic, organic, biochemistry, and analytical; Biology including field and lab biological sciences, pre-health disciplines and science teacher certification; Geology including field geology, hydrology, and GIS; Natural Resource Management including management and conservation of rangelands and wildlife; 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 the four academic departments 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 meat science
- 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 team 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 Stare 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.
The Rio Grande Research Center creates a structured, science-based, basin-wide perspective for the sustainable use of water resources within the bi-national Rio Grande watershed. This is accomplished through scientific research, educational initiatives, and outreach activities centered on gaining and sharing knowledge about the watershed's biological and physical environment.

# DEPARTMENT OF NATURAL SCIENCES 

## (Including Biology, Geology, and Natural Resource Management) College of Agricultural, Life \& Physical Sciences

Office: Everett. E. Turner Range Animal Science 111 and Warnock Science Building 216
Phone: (432) 837-8112 or (432) 837-8488
E-mail: naturalsciences@sulross.edu Chair:
Distinguished Professor Emeritus: A. Michael Powell, Ph.D. and David Rohr, Ph.D. Professor Emeritus: Martin K. Terry, Ph.D., D.V.M.
Professor: Dan H. Foley III, Ph.D., Louis A. Harveson, Ph.D., Robert J. Kinucan, Ph.D., Elizabeth Measures, Ph.D., Christopher Ritzi, Ph.D. Kevin Urbanczyk, Ph.D. and Bonnie J. Warnock, Ph.D.
Associate Professors: Ryan S. Luna, Ph.D.
Assistant Professors: Anirban Bhattacharjee, Ph.D., Thornton R. Larson, Ph.D., Thomas Shiller, Ph.D.
Instructors: Jessica Kelsch, M.S. Richard Mrozinski, M.S
Lecturers: Jeff Keeling, M.S. and Anne Marie Hilscher, M.S.
The Department of Natural Sciences offers course work leading toward the Bachelor of Science degrees in Biology, Geology, and Natural Resource Management, as well as

Masters of Science degrees (thesis and non-thesis) in Biology, Geology, and Range and Wildlife Management and Masters of Agriculture in Natural Resource Conservation (nonthesis). The department also offers minors in Biology, Geology and Natural Resource Management. Teacher certification is available in the sciences through the Composite Science Teaching Certification, as well as sub disciplines in Life or Physical Sciences.

The Department of Natural Sciences educates students in the art and science of gaining and applying ecological knowledge to understand and manage natural resources and systems with a focus across the entire ecosystem, both biotic and abiotic. Our goal in the Department of Natural Sciences is to provide the best education and training available for future scientists and managers. We meet this goal with a curriculum solidly grounded in scientific principles that stresses hands-on experience.

The countryside around Alpine is characterized by rugged mountains interspersed with high plateau grasslands and lowland deserts. The area is generally referred to as the Trans-Pecos and represents the northern part of the great Chihuahuan Desert. The tremendous diversity of wildlife, plants, landscape, soils and geology makes the entire area a huge natural outdoor laboratory unmatched elsewhere for the study of the natural sciences. To support the outdoor lab experience, the Department of Natural Sciences has access to the SRSU Alpine Ranch, which includes over 400 acres adjacent to the university and the 14,700-acre SRSU Sierra Blanca Ranch, as well as numerous state, federal, and private properties. We help students take advantage of this natural laboratory through field trips, class projects and undergraduate and graduate research opportunities. Together, this background provides the opportunity to gain a thorough, well-rounded education. Our undergraduate students often have the opportunity to assist and participate in graduate and faculty research projects, which provides first-hand experience.

## BIOLOGY

## Program Director:

Biology students in the undergraduate program work toward a B.S. degree in biology with several concentrations. The Pre-Health and Pre-Nursing curriculum is designed to provide broad training in most aspects of modern biology, and will also prepare students for almost any advanced specialty discipline including pre-medical and allied health areas. 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 Natural History track offers courses focusing on the organismal approach to biology emphasizing non-game wildlife species and botany which meet the requirements for certification by The Wildlife Society as a wildlife biologist.

Bachelor of Science - Biology Degree Plan with concentrations in: Natural History, Pre-Health, Pre-Nursing, and Science Teacher Certification Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
Course descriptions can be found at the end of this document and online.
No course with a grade less than "C" can be used to fulfill biology major course requirements.

## PRE-NURSING

Sul Ross State University offers courses which satisfy requirements for the first two years of many four-year professional nursing programs outlined by the various schools of nursing. Students interested in pursuing the BSN at Sul Ross begin their education as Biology: Pre-Nursing students and can then apply to the BSN program once all requirements are met.

## PRE-HEALTH PROFESSIONS

Students interested in applying for admission to medical, dental, or pharmacy schools may major in any undergraduate field they wish, with biology being a traditional choice as it meets many of the requirements. Information concerning admission requirements of professional schools is available in the office of the Pre-Professional Advisor in Biology. The Pre-Professional concentration is designed to meet the requirements of many professional programs in Texas. 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 economical disadvantaged Texans. For more information, please contact the JAMP Faculty Director in the department.
Students may also pursue a modified degree track that is designed for a student to complete their first three years at Sul Ross, and enter UTHSA-SA Dental School for their last year of the MS degree and first year of the DDS degree. Other requirements, including application, admission, and DAT scores, are independent of this degree track.

## Biology as a Minor

A minor in Biology requires a minimum of eighteen 18 BIO or BIOL semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU. A maximum of nine semester credit hours of 2000 level or above transfer courses can be used. BIO 3300, BIO 3308 or BIO 3309 will not count toward the minor in Biology.
Biology 1306/1106 and 1307/1107

## No course with a grade less than "C" can be used to fulfill biology course requirements.

## GEOLOGY

## Program Director:

The mountainous far west Texas, is in an ideal locality for geologic studies. The campus is surrounded by the Cenozoic-aged Trans Pecos Magmatic Province. Paleozoic-aged sedimentary rocks of the Marathon Basin and the Glass Mountains (including the Marathon-Ouachita fold and thrust belt) are a short 20 -minute drive from campus. Several national and state parks known for their geology are also near campus. Big Bend National Park, Davis Mountains State Park and Big Bend Ranch State Park are all within 100 miles of the campus and Guadalupe Mountains National Park and Carlsbad Caverns National Park are within 200 miles of campus. The federally designated Rio Grande Wild and Scenic River section of the Rio Grande is also in the Big Bend Region. The program also has access to the Christmas Mountains (within 70 miles) for geological studies. Notable geologic features in far west Texas include Precambrian metamorphics, significant karst and cavern development, the Permian reef system, Mesozoic marine and
non-marine deposits with vertebrate fossils, exposures of lavas, tuffs and intrusive rocks, large and small caldera systems, structural domes related to laccolith emplacement (the Solitario and the Christmas Mountains), compressional features related to the Laramide Orogeny and evidence of the southern extension of the Rio Grande rift. Hydrologic features of far west Texas include numerous major and minor aquifers, multiple spring systems and the Rio Grande, Pecos and Devils rivers.

The Geology Program emphasizes hands-on experience with geologic samples and geologic/geographic computer applications. Day-long or weekend-long field trips are an important component of the majority of the classes. The curriculum is broad-based and provides an excellent background that allows Geology graduates to find employment in industry (oil \& gas, hydrogeology, geologic hazards, and mining), environmental concerns, state and federal agencies, teaching, or to pursue advanced Geology degrees. The program offers undergraduate courses leading to the Bachelor of Science degree in (1) Professional Geology and (2) Composite Science for Teachers.

- The first program embodies a concentrated training to prepare majors for graduate study or employment as a professional geologist.
- The second program trains students to pursue elementary and high school teaching careers. See a geology advisor for details.
The program also offers graduate courses leading to a Master of Science in Geology.


# Bachelor of Science - Geology Degree Plan with concentrations in: Geology and Composite Science in Geology Teacher Certification Degree Plan Offered at Alpine <br> Course descriptions can be found at the end of this document and online. 

## No Geology course with a grade less than "C" can be used to fulfill Geology

 degree plan requirements. Students must have a 2.0 or better grade point average in required math and required science courses.
## Geology as a Minor

Required courses: Either Geology 1303/1103 or GEOL 1305/1105, GEOL 1304/1104, GEOL 2301, minimum of9 SCH 3000-4000 level courses.
No Geology course with a grade less than "C" can be used to fulfill Geology minor course requirements.

## NATURAL RESOURCE MANAGEMENT

Students majoring in Natural Resource Management can pursue a concentration in conservation biology, or range and wildlife management.
The Natural Resource Management Range and Wildlife Management and Conservation Biology concentrations are designed to meet civil service requirements for resource management specialists with federal agencies, and prepare students to work in federal, state, or private sector natural resource and wildlife occupations. The Range and Wildlife Management concentration is also designed to meet The Wildlife Society's criteria for certification as a Certified Associate Wildlife Biologist.
Our degrees offer great flexibility to customize your education to meet your interests and needs by providing a wide selection of electives from which to choose. Some of the more popular electives for our students majoring in Natural Resource Management include

Biology, Chemistry, Criminal Justice, Business, Animal Science or Industrial Technology. A degree in Natural Resource Management opens the door for students who have the desire to work towards the future health of our many natural resources.
The Natural Resource Management (NRM) curriculum is designed to educate students in the art and science of applied ecological knowledge to manage natural resources. Students may select a concentration in Conservation Biology or Range and Wildlife Management, which allows you to meet professional requirements as a wildlife biologist, resource conservationist. Students receive a broad education in agribusiness principles, natural resources, plant and animal ecology and management, and obtain specific expertise in their chosen concentration.

The Conservation Biology Concentration is designed to educate students in the art and science of applied ecological knowledge to manage natural resources, focusing on conservation and sustainable use of natural resources and management of nongame and rare species.
The Range and Wildlife Management Concentration is designed to educate students in the art and science of applied ecological knowledge to manage natural resources focusing on management of rangeland resources such as soil, water, vegetation, and grazing animals and management of game wildlife species and their habitats.

## Bachelor of Science - Natural Resource Management Degree Plan with concentrations in: <br> Conservation Biology and Range and Wildlife Management <br> Course descriptions can be found at the end of this document and online.

# ENVIRONMENTAL STUDIES <br> College of Agricultural, Life \& Physical Sciences <br> E-mail: ALPS@sulross.edu 

## Minor Description

Environmental Studies is an interdisciplinary minor that encourages students to delve into the problems and prospects of the environment. The environmental studies minor allows students to gain fundamental knowledge of science as well as literature and the law. This basic competency establishes a comprehensive context for understanding the methodologies and problems of studying environmental issues. The areas to be selected from include Biology, Geology, Natural Resource Management and the Humanities.

## Environmental Studies as a Minor:

A minor in Environmental Studies may be obtained by taking a minimum of eighteen semester credit hours. Students are required to take three courses from the following list of core classes: Biology 2406; English 2315; Geology 1305/1105; Geology 3401; Natural Resource Management 2303 or Natural Resource Management 4301; Students must take two or more advanced courses (at least 9 SCH) in Environmental Studies sufficient to bring their total semester credit hours to at least eighteen.

# COLLEGE OF EDUCATION \& PROFESSIONAL STUDIES 

Office: Morelock Academic Building, 203
Phone: (432) 837-8134
FAX: (432) 837-8133
Barbara Tucker, Ph.D., Dean
The College of Education and Professional Studies consists of the following
departments:
Business Administration
Education
Homeland Security and Criminal Justice
Kinesiology and Human Performance
Law Enforcement Academy
Students may select a variety of degrees that include a strong general education component and specialized courses in the major or minor. Students can prepare for either immediate entry into their chosen careers or advanced study.

## Degree Programs in Professional Studies

- Bachelor of Business Administration Bachelor of Science with majors in Criminal Justice, Education (includes teacher certification), Homeland Security, and Kinesiology and Human Performance.
- Master of Business Administration
- Master of Education: Emphasis in Diagnostician, Counselor Education, Educational Instructional Technology (add), Educational Leadership, and Superintendent certification(add).
- Master of Science in Criminal Justice
- Master of Science in Homeland Security
- Master of Science in Health and Human Performance


# DEPARTMENT BUSINESS ADMINISTRATION 

College of Education and Professional Studies<br>Morelock Academic Building, 309<br>Box C-35, Alpine, TX 79832<br>(432) 837-8066<br>Fax: (432) 837-8003<br>E-mail: wcgreen@sulross.edu<br>Chair and Professor: William C. Green Ph.D.<br>Associate Professor: Francisco Pallares, D.ED<br>Lecturer: Clark Nussbaum, M.B.A.

The Department of Business Administration at Sul Ross State University offers two degrees and a minor: the Bachelor of Business Administration Degree (BBA), 120 semester credit hours; the Master of Business Administration Degree (MBA), 36 semester credit hours; and a minor in Business Administration.

## BACHELOR OF BUSINESS ADMINISTRATION (BBA) 120 semester credit hours

The Bachelor of Business Administration Degree program provides a broad base of business knowledge, understanding, and skills. Areas of study include the fields of economics, accounting, marketing, finance, and global business.
In this program, students may begin taking 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 some flexibility to focus on 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 such as accounting, economics, finance, or marketing.
> * Bachelor of Business Administration Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
> Course descriptions can be found at the end of this document and online.

## Minor in Business Administration <br> 18 semester credit hours

Students desiring a minor field in Business Administration must complete the following six courses.
Accounting 2301 (Principles of Accounting I)
Economics 2301 and 2302 (Macroeconomics and Microeconomics)................................... 6
Finance 3340 (Corporate Finance) ..... 3
Management 3306 (Principles of Management) ..... 3
Marketing 3370 (Principles of Marketing) ..... 3

Total 18

# DEPARTMENT OF EDUCATION 

## College of Education and Professional Studies

Office: Morelock Academic Building, 305
Phone: (432) 837-8170
Fax: (432) 837-8390
Assistant Professor and Chair: Barbara Tucker, Ph.D.
Director of Teacher Education: Matthew G. Marsh, ABD
Professors: Galen Privitt, Ed.D. and Rebecca Schlosser, Ed.D.
Associate Professor: Jeanne Qvarnstrom, Ed.D.
Assistant Professors: Diana Rodriguez, Ed.D., Lisa Sousa, Ph.D., Jennifer Haan, Ph.D., Ronda Hayes, ABD and Tifany Telesca, Doctoral Candidate Instructor: Glenn Short, M Ed.
Coordinator, Undergraduate Teacher Education Program: Diana Rodriguez, Ed.D. Coordinator, Counselor Education Program: Ronda Hayes, ABD
Coordinator, Clinical Mental Health Counseling Program: Tiffany Telesca, Doctoral Candidate
Coordinator, Educational Leadership Program: Jennifer Haan, Ph. D. Coordinator, Superintendent Program: Galen Privitt, Ed.D.
Coordinator, Educational Diagnostician Program: Lisa Sousa, Ph.D.
Coordinator, Master of Education-General: Jeanne Qvarnstrom, Ed.D.
Coordinator, Educational Instructional Technology, Barbara Tucker, Ph.D.

## Program Description

Sul Ross State University was created in 1920 as a state normal college for the primary purpose of preparing teachers for the public schools of West Texas. Our continuing mission in the Department of Education is to develop life-long learners who are reflective practitioners of their craft. Our vision includes preparing high quality educators.
You can choose a degree program that leads to teacher certification in Early ChildhoodGrade 6, Grade 7-12, or All-Level EC-12. Information regarding these areas is listed in this section. The Undergraduate Teacher Education Program includes field-based work in K-12 schools.
Graduate programs include general education, counselor education, educational leadership, educational diagnostician, and educational instructional technology. Degree options and certification programs are described under Graduate Programs in Education.
Educational certification programs are frequently being revised by the State Board of Education. As this transition occurs, changes might be made in course offerings, content, and sequence. It is important to check with an advisor in the Education Department each semester for updated information. Be aware TExES exams are a requirement for certification.

EDUCATION PROGRAMS

Please see an advisor in the Education Department for specific requirements. TExES exams are required for certification.
Areas of Specialization EC-Grade 6: Generalist

## Major and Teaching Fields in Grades 6, 7 \& 8-12

These are approved certification areas. Please see an advisor in that department for specific requirements. TExES exams are required for certification.

Ag Science \& Tech 6-12
Physical Science 6-12
English/Language Arts/Reading 7-12
History 7-12
Life Science 7-12

Mathematics 7-12
Social Studies 7-12
Science 7-12
Speech 7-12
Technology Education 6-12

## All-Level Teaching Fields

Please see an advisor in the Education Department for specific requirements. TExES exams are required for certification.

Art EC-12
LOTE Spanish EC-12
Music EC-12

Physical Education EC-12
Theatre EC-12

Bachelor of Science in Education Early Childhood - Grade 6 Generalist Degree Plan
Course descriptions can be found at the end of this document and online.

## TEACHER EDUCATION PROGRAM

Sul Ross offers a variety of certification programs at the following teaching levels:

- Early Childhood through Grade 6
- Grades 6/7 \& 8 through12
- All Level (Early Childhood through Grade 12)

Students interested in becoming certified teachers in Texas may apply to the program midway through their junior year (after at least 75 semester credit hours college coursework).
Admission Requirements:

- Minimum of 75 semester credit hours applicable to degree
- Cumulative grade point average (GPA) of 2.75 or better
- Completion of 6 hours of required English courses with a C or better
- No incomplete grades or grades lower than a "C" in teaching field(s) or areas of specialization. Overall GPA in teaching field(s) or areas of specialization must be 2.75 or better.
- No incomplete grades or grades lower than a "C" in education courses required for certification. Overall GPA in education courses must be 2.75 or better.


## Basic Skills:

Test requirements (one of the following):
THEA: Reading 250+; Writing 220/6+; Math 230+
ACT: Reading 23+; Writing 17+; Math 18+; Composite 21+
SAT. Reading 450+; Math 450+; Composite 900+
TSI: Reading 351+; Writing 340/4+; Math 350+
*If SAT scores are used, the THEA or ACT writing score or a grade of "B" or better in English 1301 or 1302 may be used to satisfy the writing component.
Grade requirements in lieu of testing (grade "B" or better in the following):
Reading: English 2341 or any sophomore or advanced literature course
Writing: English 1301 or 1302
Math: Math 1314, 1316, 1331, 1342 or 2413
Oral \& Written Communication Skills: A grade of a "C" or higher is required.
Oral Communications: COMM 1310,1311, or 1320
Written Communications: Six of the nine required credit hours of English
Certification in Texas requires the following:

1. A bachelor's degree
2. A major in the chosen teaching field or at least 24 semester credit hours (12 of which are junior/senior/advanced hours) in the chosen teaching field.
3. Completion of education coursework in professional development (Pedagogy and Professional Responsibilities-PPR).
4. Teacher applicants must pass the State certification exam(s) for
a. content [or teaching field(s)] and
b. edTPA or Pedagogy and Professional Responsibilities (PPR)
5. Completion of one semester of student teaching in the chosen teaching field(s). The edTPA \& PPR component of teacher education is delivered in three semesters (or blocks) of coursework:
Block I
EDUA 4314 Reading Skills for Content Subjects
EDUA 3302 Developmental and Learning Theories
Block II
EDUA 3303 Methods \& Materials
EDUA 4322 Classroom Management
Block III
EDUA 3300 Principles of Education
EDUA 3301 Curriculum \& Instruction
EDUA 4601, 4602, 4603 or 4605 Student Teaching

## TEACHING FIELDS/CERTIFICATION PROGRAMS

Early Childhood through Grade 6 Generalist (Bachelor's degree in Education)
Grades 6/7 (add) -12 (Bachelor's degree with a major in the chosen teaching field)
Agriculture, Food \& Natural Resources 6-12
History 7-12
Mathematics 7-12
Physical Science 6-12
Social Studies 7-12
English, Language Arts \& Reading 7-12
Speech 7-12
Life Science 7-12
Technology Education 6-12,
Speech 7-12
Science 7-12
All Level (Early Childhood through Grade 12) (Bachelor's degree with a major in the chosen teaching field)

Art EC-12
LOTE Spanish EC-12

Physical Education EC-12
Theatre EC-12

## APPROVAL FOR STUDENT TEACHING

1. Must be fully admitted to the Teacher Education Program.
2. Must have submitted an Application to Student Teach by posted deadline.
3. Must have completed 90 semester hours or more toward degree.
4. Must have an overall grade point average of at least 2.75 on a 4.0 scale.
5. Must have passed TExES Content exam.
6. Must demonstrate sound physical health, sound mental health, and acceptable moral character. (The Teacher Education Council may request a student to take a physical examination and/or psychological tests or inventories.) Shall be of good moral character and emotionally suited for working with children.
7. State requirements include a criminal background inquiry before placement in public schools.
8. Must have completed 12 semester hours of professional education with a minimum grade point average of 2.75 on a 4.0 scale, with no grade lower than a C. Must be approved to student teach by the Coordinator of Field Experience.

## DEPARTMENT OF HOMELAND SECURITY \& CRIMINAL JUSTICE

College of Education and Professional Studies

Office: Morelock Academic Building, 109
Phone: (432) 837-8166
Chair and Professor: Oguzhan Basibuyuk, Ph.D.
Associate Professor: Ismail Dincer Gunes, Ph.D.

## Program Description

The Homeland Security and Criminal Justice degree programs are designed to meet the needs of students pursuing a career in several areas of the criminal justice system. Students can choose a Bachelor of Science degree in Criminal Justice or a Bachelor of Science degree in Homeland Security, which will qualify graduates for employment in many public service professions. Opportunities currently exist for men and women in homeland security, law enforcement, courts, and corrections agencies at the federal, state, and local levels of government. The jobs include state highway patrol, municipal police, sheriffs' departments, U.S. Customs and Border Patrol, adult and juvenile probation, parole, prisons, treatment centers, TSA, and FEMA. Other areas of interest where opportunities exist are victim and witness assistance programs, state parks and wildlife agencies, the National Park Service, Alcoholic Beverage Commission, emergency management and private industry.

Students including Transfer students should be aware that the Sul Ross State University Department of Homeland Security and Criminal Justice will accept all common (CRIJ) courses for which the student has earned a " $C$ " or better. Students should be aware that courses transferred in from two-year institutions (junior and community colleges) cannot count toward the University requirements for total upper-level hours. These two-year institution courses will not count as upper-level, even if they had a 3300 or 4300 number.

Sul Ross State University also houses the H. Joaquin Jackson Law Enforcement Academy. Cadets in the academy who are also students at Sul Ross State University may earn college credits for select Criminal Justice courses while attending the academy. These credits only apply to cadets enrolled in the SRSU academy. Further, except as required by law, the Department will not award or accept credit for any law enforcement or correctional (In-Service Occupational) training.

Homeland Security and Criminal Justice majors are both required to complete a total of 120 semester credit hours, including 36 hours of Criminal Justice or Homeland security. Details of these requirements are listed below.
To graduate with a major in Criminal Justice, students must obtain a passing score on the Criminal Justice Senior Exam, which is required for CJ 4309 Senior Seminar. For the Homeland Security degree, students must obtain a passing score on the Homeland Security Exam, which is required for CJ 4331 Advanced Topics in Homeland Security. No student will be allowed to substitute any transfer course for CJ 4309 or CJ 4331.

\author{

* Bachelor of Science - Criminal Justice Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
}

Course descriptions can be found at the end of this document and online.

## Bachelor of Science - Homeland Security Degree Plan

Course descriptions can be found at the end of this document and online.

## Minor in Criminal Justice

Students wishing 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-level ( 3000 or 4000 level) CJ courses. For these 12 hours, students should consult with a Homeland Security and Criminal Justice faculty member.

## THE H. JOAQUIN JACKSON LAW ENFORCEMENT ACADEMY

College of Education and Professional Studies
Office: Morelock Building, 106
Phone: (432) 837-8704
Fax: (432) 837-8133
Website: https://www.sulross.edu/law-enforcement-academy/
Oguzhan Basibuyuk, Ph.D., and Ismail Dincer Gunes, Ph.D.
Training Coordinators

## Program Description

The Sul Ross State University Law Enforcement Academy serves law enforcement and corrections personnel in Texas. It is the mission of the Law Enforcement Academy to provide the highest quality training to area agencies and police and corrections cadets at the lowest possible cost.

The purpose of the Sul Ross State University Law Enforcement Academy's Basic Peace Officer course, a 720 clock-hour course of study, is to prepare prospective law enforcement officers for the TCOLE Certification Exam. The academy also offers Texas Commission on Law Enforcement (TCOLE) in-service courses at both intermediate and
advanced levels for the purpose of enhancing the peace officers' level of proficiency and meeting training requirements.

## Academic Credits

Cadets enrolling in the Law Enforcement Academy at Sul Ross State University may also qualify to earn college credits while attending. In order to qualify, cadets in the current academy must also be students at the university. They must be college ready (not in need of remedial work) and must be at a stage in their education where they qualify to take Junior and Senior level college courses. Freshmen do not qualify.
Students may enroll in the following courses while attending the SRSU Academy:

- CJ 3363 Police Academy I
- CJ 3364 Police Academy II
- CJ 3365 Police Academy III
- CJ 3366 Police Academy IV
- CJ 3312 Criminal Investigation
- CJ 3320 Emergency Management
- CJ 4302 Legal Issues in CJ

For admission requirements you can visit TCOLE's website (TCOLE RULE §217.1).

# DEPARTMENT OF KINESIOLOGY \& HUMAN PERFORMANCE 

College of Education and Professional Studies

Graves Pierce, 101
Office: (432) 837-8120
Fax: (432) 837-8234
E-mail: kinesiology@sulross.edu
Associate Professor and Chair: Christopher Herrera, Ph.D., M.B.A.
Graduate Program Coordinator, Assistant Professor: Billy Jack Ray, Ed.D. Undergraduate Program Coordinator, Assistant Professor: Shanna Moody, Ed.D. Lecturers: Jon Staton, Mary Powers

Kinesiology and Human Performance at Sul Ross State University provides professional training with a broad application to the physical education, sport, fitness, health and recreation fields. It prepares students for several careers and educational endeavors, including public school teaching and coaching, pre-physical therapy, athletic training, personal training, strength and conditioning specialist, campus recreation, fitness and recreation management, health promotion, and several other related areas that lead into graduate school.

The Department of Kinesiology is located within the Graves-Pierce Complex, which houses facilities for academic program as well as recreation, wellness and intramurals including an indoor swimming pool, two collegiate size gymnasiums, an aerobics/dance room, a wellness room, a free weight room, racquetball courts, a sauna and a whirlpool. There are also tennis courts, a football stadium, an all-weather track, baseball fields, softball fields and intramural fields for soccer, and disc golf on campus.

Several scholarships are awarded to outstanding students in Kinesiology each year. The students must apply for the scholarships before March $1^{\text {st }}$ each spring. The scholarships are awarded for one year, divided into two equal semesters.

# Bachelor of Science <br> Kinesiology and Human Performance - Athletic Training Concentration Kinesiology and Human Performance - Pre-Professional Concentration Kinesiology and Human Performance - Sport and Recreation Management Concentration <br> Kinesiology and Human Performance - All-Level Physical Education Teacher Certification 

Course descriptions can be found at the end of this document and online.
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 Athletic Training Concentration provides the required coursework and the 1800
apprenticeship hours required to sit for the Texas Athletic Trainers licensure exam. Licensed Athletic Trainers (LATs) specialize in the prevention, evaluation, care and rehabilitation of athletic injuries.
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 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.
The Sport and Recreation Management Concentration consists of an applied curriculum that provides the knowledge, skills, and abilities needed to pursue a career in a variety of sport and recreation professions, including personal training, strength and conditioning, campus and outdoor recreation. The program merges several experiential learning opportunities with leadership development to support career development.
The All-Level Physical Education and Teacher Certification program is designed for career preparation, enabling the student to take the State of Texas licensure exam (TExES) in K-12 physical education. In addition to teaching, the program also prepares students who are planning to engage in a coaching career at the public school level. The professional Teacher Certification program can be altered by the State at any time. Therefore, it is the student's responsibility to stay up to date on any changes to the certification requirements.
Students may be admitted to the Teacher Education Program and begin Education classes when the following requirements have been met:
a. Completed a minimum of 75 semester credit hours
b. Minimum overall G.P.A. of 2.75
c. Completed a minimum of 12 semester credit hours in Kinesiology
d. Minimum Kinesiology G.P.A. of 2.5
e. Meet minimum requirements for Texas Success Initiative in: Reading, Writing \& Mathematics. Requirements may be met through ACT, SAT or THEA exams OR through grades in lieu of testing
f. Completed COMM 1311 or THEA 2304 with a "C" or higher
g. Completed 9 semester credit hours of English with a "C" or higher Complete information on the Teacher Education Program may be obtained from the Sul Ross State University Department of Education. Contact the Education Department at (432) 837-8170 or see the information available on the department website at www.sulross.edu/section/205/department-education.

Students interested in becoming certified teachers in Texas may apply to the program midway through their junior year (after at least 75 semester credit hours college coursework).

## Admission Requirements:

- Minimum of 75 semester credit hours applicable to degree
- Cumulative grade point average (GPA) of 2.75 or better
- Completion of 6 hours of required English courses with a C or better
- No incomplete grades or grades lower than a "C" in teaching field(s) or areas of specialization. Overall GPA in teaching field(s) or areas of specialization must be 2.75 or better.
- No incomplete grades or grades lower than a "C" in education courses required for certification. Overall GPA in education courses must be 2.75 or better.


## Kinesiology and Human Performance as a Minor

The minor in Kinesiology requires 18 semester credit hours of Kinesiology course work including at least 6 hours of upper division ( 3000 or 4000 level) courses.

A minor in Athletic and Sport Coaching provides an applied learning experience that supports a career in coaching within a public school setting, higher education, and some private sector jobs. Required courses include:
KINE 1350 (Sports Officiating)
KINE 2305 (Care and Prevention of Athletic Injuries) ..................................................... 3
KINE 2314 (Skills and Technique of Individual and Team Sports).................................. 3
KINE 2340 (Principles of Athletic Coaching) .................................................................. 3
KINE 4340 (Legal \& Ethical Issues in Sport).................................................................... 3
KINE 4353 (Concepts of Strength \& Conditioning)......................................................... 3
TOTAL.................................................................................................................. 18
Recreation Administration as a Minor
The Recreation Administration 18 hour minor provides students with knowledge in recreation and leisure services, individual and team sports, outdoor activities, entrepreneurship, leadership and specific training in health promotion. 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:
KINE 2302 (Recreation and Leisure Services)................................................................ 3
KINE 2370 (Leisure and Outdoor Recreation)................................................................. 3
KINE 3376 (Water Recreation and Safety)....................................................................... 3
KINE 3378 (Mountain Recreation and Water Safety)...................................................... 3
KINE 3370 (Recreation Administration).......................................................................... 3
KINE 3380 (Sustainable Tourism and Commercial Recreation)...................................... 3
TOTAL................................................................................................................... 18
A total of 120 semester hours are required to graduate; 36 hours (12 courses) of those must be numbered 3000 level or higher. A grade lower than a " $C$ " will not be accepted in the major field.

# COLLEGE OF LITERATURE, ARTS, \& SOCIAL SCIENCES 

Office: Ferguson Hall 108<br>Phone: (432) 837-8368<br>FAX: (432) 837-8382<br>E-mail: Ibutler@sulross.eduarts-science@sulross.edu<br>Website: http://www.sulross.edu/arts-and-sciences<br>Laura Payne Ph.D., Dean

The College of Literature, Arts, and Social Sciences was formed in 2022 in order to create a College distinctly focused on the arts and humanities. This College exists to meet the needs of the university, to complement the other academic units, and to help students realize personal, professional, and vocational objectives. The departments and programs in the College offer courses for the core curriculum in general education, provide course support for other programs, and develop innovative elective units in addition to required undergraduate and graduate courses for majors and minors. Faculty and staff in LASS pride themselves in being student-centered, in being service oriented, in being able to answer questions or solve problems, and in maintaining a friendly and open environment conducive to learning.
The College of Literature, Arts, and Social Sciences consists of the following four departments:

## Academic Center for Excellence

## Behavioral and Social Sciences

## Fine Arts

Languages and Literature
The College of Arts and Sciences also includes Student Publications, which produce The Sage literary journal, and The Skyline newspaper and the General Studies program.

The College of Arts and Sciences promotes and coordinates with the Office of International Studies to provide educational travel opportunities among the various departments.

## Degree Programs in the Arts and Sciences:

1. Bachelor of Arts with majors in Communication, English, General Studies, History, Political Science, Psychology, Social Science, and Spanish;
2. Bachelor of Fine Arts with majors in Art and in Theatre;
3. Bachelor of Music
4. Master of Arts with majors in English, History, Liberal Arts, Political Science, and Public Administration;

ACADEMIC CENTER FOR EXCELLENCE<br>SRSU Honors Program, Academic Learning Center, Developmental Courses<br>College of Arts and Sciences<br>Office: Ferguson Hall 214<br>Phone: (432) 837-8408<br>E-mail: kstein@sulross.edu<br>Director of the Academic Center for Excellence and Professor of English: Kathy K. Stein, Ed.D.<br>Lecturers: Chris Garcia, M.A., Elba Lamar, M.S., Cynthia McAlister, M.S., Richard Mrozinski, M.S., and Julie Vega, M.A.<br>Academic Enhancement Seminars: Chris Garcia, M.A.<br>SRSU Honors Program: Kathy K. Stein, Ed.D.

## Program Description

The Academic Center for Excellence (ACE) provides a myriad of multifaceted services intended to support all students and academic programs at Sul Ross State University. In support of this endeavor, ACE offers course work for students needing to satisfy the Texas Success Initiative (TSI). ACE also provides facilities, organization, and coordination for the SRSU Honors Program. The SRSU Honors Program challenges students to conceptualize, analyze, and learn subject material in a different way. By incorporating and bringing together these disparate student bodies, an environment of understanding, camaraderie, and cooperation is created. ACE works closely to help students adjust and adapt to college life and to succeed in their life-long learning experience.

Academic Enhancement Seminars ACE also makes Academic Enhancement Seminars available to students. Each semester, a series of seminars is conducted to give students the opportunity to gain and hone their academic skills and address such topics as developing and recognizing effective academic practices.

## Developmental Education

The developmental education courses are designed to target deficiencies as identified by the criteria established in the Texas Success Initiative (TSI). Students initially enrolling into Sul Ross State University who do not meet the College Readiness Standards must take a state approved assessment (the Texas Success Initiative Assessment) meant to identify needs in reading, writing, and mathematics. Students must pass all developmental courses for which they have shown a need prior to attempting any collegelevel courses related to one of the three areas.

## College Readiness Exemptions

ACT - Composite score of 23 with a minimum of 19 on the English test shall be exempt for both the reading and writing sections of the TSIA, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSIA.
SAT - A minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. There is no combined

## score.

High School Options - Score of at least 4000 on the English III and/or Algebra II STAAR end-of-course (EOC) exams OR successful completion of a College Preparatory Course (and your high school district has an MOU with SRSU)

## SRSU Honors Program

The Sul Ross State University Honors Program is a challenging and an integrative program of academic experiences with a high degree of student and faculty interchange designed to stimulate the more motivated student. This program offers the outstanding student an opportunity to engage in intellectually motivating course projects. It is not an accelerated program but an in-depth approach to the understanding of ideas and relationships. The program offers students a chance to go beyond the norms of the traditional classroom experience and explore with a greater intensity more challenging concepts and issues while applying critical thinking to the learning experience.
A student who completes a minimum of 24 credit hours in honors coursework with a GPA of 3.50 or higher and a cumulative GPA of 3.30 or higher will earn the designation Graduate in Honors Studies. This designation will be imprinted on each student's transcript. Students are encouraged to apply to the SRSU Honors Program by completing an application. Contact the Academic Center for Excellence for more information on applying to the SRSU Honors Program.

## DEPARTMENT OF BEHAVIORAL \& SOCIAL SCIENCES

(Including Anthropology, Communication, Geography, History, Mexican American Studies, Philosophy, Political Science, Psychology, Public Administration, Social Sciences and Sociology)
College of Arts and Sciences
Office: Lawrence Hall 208
Phone: (432) 837-8157
FAX: (432) 837-8146
E-mail: msaka@sulross.edu
Professor and Chair: Mark Saka, Ph.D.
Professor: James W. Downing, Ph.D., Associate Professor: Joseph Velasco Ph.D., Bret Scott, MFA, Kendra Dehart Ph.D.

Assistant Professors:
Alicia Trotman, Ph.D., Jessica Velasco, D.P.A., and Savannah Williamson, Ph.D.

## Program Description

The Department of Behavioral and Social Sciences offers course work leading to the Bachelor of Arts degrees in Communication, History, Political Science, Psychology, and Social Science. Cultural and Diversity Studies is offered as a minor field of study only. In addition, limited course work is offered in Philosophy. Teacher certification is available in History and Social Science, (Economics, Geography, Political Science, Psychology, and Sociology). At the graduate level, the department offers the Master of Arts degrees in History, Political Science, and Public Administration. The department has a limited number of graduate Teaching Assistantships for graduate students in History, Political Science, and Public Administration. For additional information about the assistantships,
contact the department chair.
The Behavioral and Social Sciences faculty is engaged in a wide-range of research with international, national, and regional focus. There has been a tradition of research addressing Trans-Pecos/Big Bend issues as well as cross-cultural research in Mexico. The Center for Big Bend Studies and the Museum of the Big Bend are closely associated with the department and provide students opportunities for archeological and historical research. The Department of Behavioral and Social Sciences also provides educational opportunities through international travel in Europe and Mexico.
The Texas state legal requirements for course work in United States history and federal and Texas government are met by courses taught in this department. These requirements may be met in a variety of ways indicated in the course descriptions for the appropriate discipline.
The Department sponsors a number of honorary societies and clubs, including: Phi Alpha Theta, the national history honorary society. Pi Sigma Alpha, the national political science honorary society, and Psi Chi, the international psychology honor society, the Psychology Association, a student organization for psychology majors, and Lamda Pi Eta, the honor society for Communication majors.
As with all Sul Ross students, students majoring in an academic area within the Department of Behavioral and Social Sciences are required to take a major field assessment examination during the semester in which they graduate. Students should contact their major field advisors concerning specifics of the examinations.

## Career Opportunities:

Each program in the department is designed to provide an educational experience which will lead to career and graduate opportunities for the students.

## History

| Education | Preparatory for: |
| :--- | :--- |
| Government/Public Administration | Law School |
| Journalism | Paralegal careers |
| Museum and Archival careers | Graduate Museum and Archive <br> Programs |
| Writing and Editing | Graduate History Programs |
| Businesses which seek employees with <br> liberal arts backgrounds |  |

Political Science

| Education | Federal, State, and Local <br> Agencies/Public Administration |
| :--- | :--- |
| Government/Public Administration | Private Non-Profit Agencies |
| Business which seeks employees with <br> liberal arts backgrounds | Businesses which seek employees with <br> liberal arts backgrounds |
| Public Relations | Journalism |
| Minority Affairs | Preparatory for: |
| Political Science | Law School |
| Education Research | Paralegal careers |

Government Related Business $\quad$ Graduate Political Science Programs

## Psychology

| Education (e.g. school counseling) | Research (e.g. experimental psychology) |
| :--- | :--- |
| Social workers and child protective <br> service workers | Well-being, Physical and Mental Health <br> Counselors / Sports Psychologists |
| Law Enforcement, Correction, and <br> Probation Officers, Detectives and <br> Forensic Psychologists | Other health, environmental, government <br> and private industry positions requiring a <br> liberal arts background: |
| Industrial or Organizational Psychologists | Paralegal careers and Law School |
| Psychometrist or Clinician | Ecological and Sustainability Issues <br> and Disaster Recovery |
| Marriage and Family Therapists | Medical careers and Psychiatry |
| Art, Music, and Drama Therapists | Social Work Programs |
| Human resource management | Graduate Psychology Programs |
| Counselors or Psychotherapists |  |

## Social Science Education

Businesses which seek employees with liberal arts backgrounds
Preparatory for:
Law School
Paralegal careers

## Features

The department is located in Lawrence Hall and works in cooperation with, the Museum of the Big Bend. Two psychology labs are maintained to provide undergraduate and graduate psychology students with modern facilities to conduct on-site research. In addition to faculty offices, office space for history and political science graduate teaching assistants is available.

## Cultural and Diversity Studies as a Minor

Advisors: Rosemary Briseño, Ph.D., English (LASS)
Savannah Williamson, Ph.D., History
This 18-semester credit hour minor provides an interdisciplinary program for inquiry into the field of Cultural and Diversity Studies. Diversity Studies investigates the history, creative expression, and scientific contributions of groups previously ignored in higher education, as well as Anthropology, Mexican American Studies, Philosophy, Sociology, and Women's Studies. For the individual student the program fosters the development of a self-identity that will enable students to be broad-minded and benevolent citizens in a multicultural society.
At least nine (9) of the 18 semester credit hours earned must be at the advanced level (3000-4000 level). Additional courses should be chosen after consultation with a Diversity Studies Minor advisor, listed above.
Required courses include: HIST 4317 - Special Topics: History of Race, Sex and Power in America; PSY 2314 - Multicultural Psychology; and WS 2301, Introduction to Women's Studies

## COMMUNICATION

The humanistic study and practice of human communication-whether applied to individuals relating to others, family units, public forums, or media forms-provides the fundamental basis for understanding our ways of thinking, knowing, and relating to each other through the symbols we share. Analysis of the ways in which symbols are created, upheld, or destroyed provides us with the means to enhance, maintain, or demean the human condition. While the choice ultimately resides within each individual, 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 B.A. degree is offered in Communication, with specialized concentrations in Interpersonal Communication, Broadcast Media, or Strategic Communication. Journalism courses may be applied to the non-teacher certification communication major or minor with permission of communication advisor. Secondary Teacher certification is offered in communication.
An interpersonal communication concentration provides a theoretical and practical understanding of human interaction, including traditional speech communication (i.e., public speaking, debate and small group) as well as social science areas of communication (i.e., family communication, gender communication and interpersonal communication). Course work includes communication theory and research as well as development of effective communication skills. A degree in interpersonal communication gives students tremendous flexibility in terms of career choices because effective communication is widely recognized as vital to such fields as education, human relations, international relations, health and human services, law, and government.
A broadcast media concentration provides a strong understanding of mass communication, encompassing the broadcast industry, new media and basics of video and audio production. Students study both theoretical principles and technical application of those principles. Course work includes all aspects of audio and video production applying a variety of approaches. Majors are expected to learn how the various fields in mass communication are structured and function, and to understand how the media are converging and the consequences of that convergence. The broad-based approach to media studies prepares students for current employment and opportunities created by developing technologies. Students who complete the broadcast media concentration will have many career options, especially in the broadly defined fields of journalism, radio, television, video, new media, advertising, strategic public relations, and integrated communications.
A strategic communication concentration provides a theoretical and practical understanding of goal-oriented communication. Students study both practical aspects of communication design such as message construction, media relations, and media production as well as theoretical concepts such as theories of attitude change, and persuasion, paired with journalism minor, the strategic communication concentration prepares students for careers in communication management such as public relations, public information, communication director, political campaigns and corporate communications.
The communication program sponsors LISN (the Lobo Information and Sports Network comprised of KSRU Radio and KSRU TV); and Lambda Pi Eta (National Communication

Honor Society).
Facilities for KSRU Radio and KSRU TV include a live video studio, a radio control room, digital video editors, PC digital audio editors, and field video equipment. KSRU-TV (Cable Channel 12) students produce various campus, educational, and informational projects throughout the year. Courses in electronic media and participation in media activities and projects are open to all Sul Ross students.
The University is a member of the National Communication Association, the National Association of College Broadcasters, and the Texas State Communication Association.

## Bachelor of Arts

Communication - Interpersonal Communication Concentration Degree Plan Communication - Broadcast Media Concentration Degree Plan Communication - Strategic Communication Concentration Degree Plan Communication- Secondary Certification Degree Plan
Course descriptions can be found at the end of this document and online.

## Communication as a Minor

18 semester credit hours of coursework to include 1311, 2333, 1320; 3304 or 4301; plus, additional 6 semester credit hours.

## Professional Communication and Design Minor

The minor in Professional Communication and Design offers a focus on the elements of communication in today's professional world. The minor 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. The minor prepares students by developing highly valued skill-sets in professional communication through coursework and practical experiences to prepare students to enter the professional arena particularly 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.

## Journalism Minor

Students will complete 18 SCH in Journalism including Journalism 2311 and 3301 plus 12 additional SCH with at least 3 advanced, selected from Journalism, IT 2304, or COMM 2308.

## HISTORY

Texas State Legal Requirements in History: History 1301 and 1302 are the courses normally taken to satisfy the six-semester hour requirement in United States History as specified in the state law. All courses marked with an asterisk (*) may be used to meet the Texas State Legal Requirement, but students must have Junior status or the permission of the instructor to take advanced courses (3000-4000 level) to fulfill the requirement. Students may also satisfy the Texas State Legal Requirement in History with History credit received through the CLEP program.

Phi Alpha Theta: The History faculty sponsors a chapter of Phi Alpha Theta, the national history honorary society.

\author{

* Bachelor of Arts - History Degree Plan <br> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde <br> Course descriptions can be found at the end of this document and online.
}

History as a Minor
18 SCH of History to include 6 SCH advanced
Teacher Certification through the Post Baccalaureate Initial Certification Program Students who want to teach History should follow this degree plan and consult with their major advisor and the Education Department to take the Education courses required for teacher certification. Some of these courses may be taken as Electives, or may be taken through the Education Department's Post Baccalaureate Initial Certification Program.

## History Major with Secondary Teacher Certification

Students who wish to be certified to teach History in grades 8-12 must take the following History courses:

- History 2301
- History 2302
- History 3309
- History 3310
- History 3311
- Plus, nine semester credit hours advanced History


## POLITICAL SCIENCE

Texas State Legal Requirement in Federal and State Government: A student may complete the six-semester-hour requirement in federal and state government for a baccalaureate degree in any one of the following ways:

- Successfully completing Political Science 2305 and 2306
- Securing credit for Political Science 2305 by presenting a satisfactory score on the CLEP test in American Government and successfully completing Political Science 2306


## Bachelor of Arts - Political Science Degree Plan

Course descriptions can be found at the end of this document and online.

## Political Science as a Minor

A minor in Political Science requires eighteen (18) semester credit hours in Political Science, including six semester credit hours advanced.

## PSYCHOLOGY

The psychology major is designed to meet the needs of individuals desiring a Liberal Arts major, a career in a human services profession, or graduate study in psychology or social work.

\author{

* Bachelor of Arts - Psychology Degree Plan <br> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
}

Course descriptions can be found at the end of this document and online.

## Psychology as a Minor

A minor in Psychology requires eighteen (18) semester credit hours in Psychology including six semester credit hours advanced.

## SOCIAL SCIENCES

Students who desire a broad field major in the social sciences should follow one of the plans for a major in social science listed below. Inquiries should be directed to the Chairman of the Department of Behavioral and Social Sciences.

* Bachelor of Arts - Social Science Degree Plan
Offered at Alpine, Del Rio, Eagle Pass, and Uvalde

Course descriptions can be found at the end of this document and online.

## Teacher Certification through the Post Baccalaureate Initial Certification Program

Students who wish to teach the Social Sciences (Economics, Geography, Government, and History) should follow this degree plan and make plans with their Major Advisor and the Education Department to take the Education courses required for certification. Some of these courses may be taken as electives, or you may seek certification through the Education Department's Post Baccalaureate Initial Certification Program.

## DEPARTMENT OF LANGUAGES \& LITERATURE

English, Spanish, Professional Communication and Design, College of Literature, Arts, and Social Sciences Office: Morelock Academic Building, 114<br>Phone: (432) 837-8524<br>E-mail: smoreman@sulross.edu<br>Professor and Chair: Sally Roche, Ph.D.<br>Professor Emeritus: Nelson Sager, Ph.D.<br>Professor: Laura Payne, Ph.D., Kathy Stein, Ed.D.<br>Associate Professors: Rosemary Briseno, Ph.D. Theron Francis, Ph.D., Ian Peddie, Ph.D.,<br>Lecturer: Julie Vega, M.A.

## Program Description

The Department of Languages and Literature offers coursework leading to Bachelor of Arts degrees in English and Spanish, as well as minors in English, Spanish, and Professional Design and Communication.

## ENGLISH

The undergraduate English program provides professional training for students interested in becoming certified to teach; students interested in an emphasis on creative writing; and students interested in pre-professional studies in law, medicine, and other fields. The program prepares undergraduates to enter graduate programs in language and literature. Career Opportunities

| Copywriter | Media Writer | Teacher |
| :--- | :--- | :--- |
| Editor | Public Relations <br> Positions | Technical Writer |
| Grant Writer | Researcher | Public Relations Positions |
| Journalist |  |  |

## Bachelor of Arts

(English Major-120 hours)
The undergraduate English program provides professional training for students interested in becoming certified to teach; students interested in an emphasis on creative writing; and students interested in pre-professional studies in law, medicine, and other fields. The program prepares undergraduates to enter graduate programs in language and literature.

# * Bachelor of Arts - English Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde <br> English - Secondary Teacher Certification Degree Plan <br> English - Writing Concentration Degree Plan <br> Course descriptions can be found at the end of this document and online. <br> <br> English as a Minor 

 <br> <br> English as a Minor}

For a minor in English, students must complete at least eighteen semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU. All sophomore and advanced English courses require completion of the freshman English courses as a prerequisite.

## SPANISH

The Spanish program provides professional training for students interested in becoming certified to teach; students interested in preparing for careers in interpretation and translation and for students desiring to enter other career fields.

## Career Opportunities

Bilingual Program Officer
Court Interpreter
Government Positions

Public Relations Officer
Publishing Positions Social Worker

Teacher
Translator

* Bachelor of Arts - Spanish Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
Spanish - Teacher Certification Degree Plan
Course descriptions can be found at the end of this document and online.
Majors in Spanish may earn up to 8 semester credit hours in Spanish by passing the CLEP


## Minor in Spanish

A minor in Spanish requires a minimum of eighteen semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU. A maximum of nine semester credit hours of transfer courses may be used.

## Cultural and Diversity Studies Minor

Coordinators: Rosemary Briseno, Ph.D., and Savannah Williamson, Ph.D.

See Department of Behavioral and Social Sciences for detailed description.

## Professional Communication and Design Minor

Coordinator: Laura Payne Ph.D.
This minor is an interdisciplinary focus within the College of LASS. The minor's crosscurricular focus requires eighteen-hours of coursework focus on elements of communications and design as a particular support to a variety of majors. The minor prepares students by developing highly valued skill-sets through coursework and practical experiences to prepare students to enter the professional arena particularly well-versed for the digital and rhetorical age. Graduates would also leave the university with a body of work and writing samples, which will prove foundational resume builders. The minor offers an array of courses from the below areas. Students will be required to take the foundational journalism course and then choose from the following areas, at least nine hours of which at the advanced level:

| Journalism | Web Design | Professional Writing |
| :--- | :--- | :--- |
| Radio | Videography | Creative Writing |
| Script Writing | Strategic Communications | Advanced Composition |
| Digital Design |  |  |

# DEPARTMENT OF VISUAL AND PERFORMING ARTS 

Art, Music and Theatre<br>College of Literature, Art, and Social Sciences<br>Office: Fine Arts Building 106<br>Phone: (432) 837-8218<br>E-mail: mscott3@sulross.edu<br>Associate Professor and Chair: Marjorie Scott, M.F.A.<br>Professors: Carol H. Fairlie, M.F.A.<br>Associate Professor: Ross Fleming, M.F.A., Karrin Ford, Ph.D., Mary-Elizabeth<br>Thompson, D.M.A, and Gregory Tegarden, M.F.A.<br>Assistant Professors: Andrew Alegria, D.M.A., Carolyn Barrientes, M.F.A.

## Program Description

The Department of Fine Arts, comprising the academic disciplines of art, film, music and theatre, offers the following degrees and teacher certifications:

Bachelor of Fine Arts: Art, Theatre, Theatre with an emphasis in Film
Bachelor of Music
Master of Arts: Art
Teacher Certification: Art, Music, and Theatre
In addition, minors are offered in each of the three areas. Undergraduate course work is offered in each of the four areas, Fine Arts; graduate course work is offered in Art, Music, and Theatre.
The Department of Fine Arts, which firmly supports Sul Ross State University's "studentcentered campus" philosophy, offers students invaluable hands-on training and opportunities through its courses and activities. Through their all-encompassing curricula, the programs in art, music, and theatre prepare their students for the graduate and/or professional world: as educators, as artists, as performers, as technicians, etc.
The Department serves as one of the primary cultural centers for the Big Bend region of West Texas. Therefore, the Department's programs offer a broad range of creative activities, including student and professional art shows, vocal and instrumental concerts, video and radio productions, and year-round theatrical productions.
All students are eligible to join the five honorary societies and clubs sponsored by the Department of Fine Arts.
Honorary societies include Alpha Psi Omega (the national theatre honorary society), and Kappa Pi (the national art honorary society). Student organizations include the Art Club (for students whose interests lie in the visual arts), the Music Club (for students who wish to promote the activities of the Music Program), and the Sul Ross Theatrical Society (for all students interested in theatre arts).

## Career Opportunities

Art

| 3-D Artist | Digital Artist | Museum Curator |
| :--- | :--- | :--- |
| Animator | Gallery Owner/Operator | Painter |
| Art Critic | Illustrator | Photographer |
| Artist Educator | Jeweler | Printmaker |
| Corporation Artist | Layout Artist | Production Potter |


| Craftsperson | Web Page Designer | Therapist |
| :--- | :--- | :--- |
| Digital Art Librarian | Production Designer |  |

## Film

| Actor | Director | Producer |
| :--- | :--- | :--- |
| Advertising |  |  |
| Assistant Director (AD) | Educator | Sound Editor |
| Casting Director | Editor | Sound Mixer |
| Cinematographer |  |  |

Music

| Administrator in Music and Arts | Music Publishing | Music Therapy |
| :--- | :--- | :--- |
| Church Music | Music Retailing Management | Performer |
| Educator | Music Technology | Private Instructor |
| Military Service Music |  |  |

## Theatre

| Actor | Educator | Public Information Officer |
| :--- | :--- | :--- |
| Broadcaster Community <br> Theatre Director | Entertainer | Screen Writer |
| Customer Service | Game Design Writer | Stage Manager |
| Customer Service Specialist | Grant Writer | Theatre Administrator |
| Designer | Human Relations Director | Theatre Technician |
| Director | Playwright | Training Specialist |

## Features

The Department of Fine Arts is located in the Francois Fine Arts Building, with the main office and Chair's office in FAB 106. Departmental facilities located in the Fine Arts Building include the band hall (FAB 100), art gallery (FAB 102), costume shop (FAB104), the Studio Theatre (FAB105), the choir room (FAB 200), the computer lab (FAB 207), as well as several classrooms, music practice rooms, and faculty offices. Additionally, the Department has a scene shop, located at the Kokernot Outdoor Theatre, and a ceramics and sculpture annex, located to the east of the Industrial Technology Building. Sul Ross State University has four performing spaces: Marshall Auditorium (a 700-seat proscenium facility), the Studio Theatre (a 120-seat proscenium facility), the Kokernot Outdoor Theatre (a 200-seat modified, outdoor proscenium theatre), and the Motion Capture studio (a 2400 square foot sound stage). The Kokernot Outdoor Theatre and Amphitheatre have been designated by the Texas Commission on the Arts as part of Alpine's State Cultural District.

## ART

Sul Ross State University is located in an area which has served as a source of inspiration for many famous artists as diverse as the minimalist/conceptual sculptor Donald Judd and painter Georgia O'Keeffe. The natural beauty of the land, its historic associations, and an incredible sense of open space found here are strong attractions for creative individuals. Studio art classes are small and friendly. Students work closely with their instructors. Continuous art exhibitions are held in both the Francois Gallery in the Fine Arts building and the Museum of the Big Bend located on campus. In addition, the Wildenthal Library, with a significant collection of art books and other visual aids, provides art students with
excellent support resources. Sul Ross Offers both a BFA and MA in Art.

## Bachelor of Fine Arts in Art Degree Plan

The BFA in art is a specialized degree that offers a broad range of art classes plus a 12hour art specialization within one of four tracks: Studio Art, Digital Art, Art History, and Art Education with certification.
Course descriptions can be found at the end of this document and online.
*The BFA with certification degree is 121 hours. Art Education Majors will take 6 SCH in ART 3303 (Art theory) and ART 3309 (Crafts) (block two) as part of their area of specialization and complete block one and three of the education certification.
*A senior exhibition or research project is required for all graduating Art majors. A competency review of all art work passed must be taken before enrolling in the 4301 senior advanced studio. A written proposal for the senior capstone ART 4303 must be submitted to the major advisor in ART 4302 advanced studio, and approved by the faculty, the semester before the capstone is scheduled. All graduating Art majors are required to submit a digital portfolio to be reviewed during their final year.

## Art as a Minor

To minor in Art, a student 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:

- 3sch Art 1302 (Drawing I), 3sch Art 1303 (Design I),
- 3sch 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.
- 3sch of a two-dimensional class; either Art 2301 (Painting), Art 2302 (Watercolor), Art 3302 (Printmaking)
- 3sch of a three-dimensional class; either Art 2305 (Ceramics) or Art 2309 (Sculpture),
- 3sch of an advanced studio; Art 3301, 4301 or 3310


## Photography as a Minor

A Photography Minor must complete 18 semester credit hours, including six (6) advanced semester credit hours. Students must take Art 1303 (Design I), IT 2304 (Photography), and IT 3354 (Studio Photography). Student must take two or more advanced courses (at least 6 semester credit hours) in Photography sufficient to bring their total semester credit hours to at least eighteen.

## Bachelor of Fine Arts (Art Major)

BFA specialization within one of four tracks; Studio Art, Digital Art, Art History and Art Education with certification.
Art majors must choose a track, and an area of specialization. Areas of specialization in the Studio track are Ceramics, Painting, Drawing, Printmaking, Mixed media, and Sculpture. Areas of specialization in the Digital track are illustration, animation and graphic design. 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. Art History majors will take independent studies in art history under 3301, 4301, 4302 with proposal and a 4303 - senior capstone.

No course with a grade less than the " $C$ " can be used to fulfill art major course requirements.
A summer session is recommended immediately preceding and following the sophomore year to reduce the heavy maximum loads during the junior and senior years. A 3000level proficiency review must be passed before enrolling in ART 4301: Studio Art Concentration. A formal proposal for a capstone exhibition must be submitted to the major advisor the semester before the student enrolls in their final studio class.

## MUSIC

The Music Program of the Department of Fine Arts and Communication offers opportunities for students of all backgrounds. Music study is available in both instrumental music and vocal music. Course offerings include music theory, music history and literature, as well as private instruction, in keyboard, voice, guitar, woodwinds and brass. Performing ensembles include university choir, wind ensemble, jazz ensemble, mariachi ensemble, and marching band. These ensembles are open to all students. Scholarship funds are readily available for those interested in participating in these ensembles. Further, substantial scholarships are available for students who declare music as a major.
For the student interested in music as a career, the department offers various concentrations in music. The major may serve as a foundation for careers in music business and music related activities. The Bachelor of Music degree coupled with the certification requirements of the Education Department qualifies a student to teach music in private and public schools, grades K-12. For those students interested in a professional musical career, there are also many opportunities in the field such as performance, teaching in the private studio, music business and merchandising, music composition and arranging, and music technology. The Sul Ross music program can help students explore these areas as well as prepare for graduate school.
Students may choose music as a minor. A music minor affords the opportunity to develop musical skills and to further explore musical creativity. The Sul Ross Music Club supports musical activities on campus and provides opportunities for leadership and fellowship among all students interested in music.
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.

## Music as a Major

The major in music includes Music 1111 (multiple enrollments), 1181, 1116, 1117, 1308, 1311, 1312, 2116, 2311, 3111 (multiple enrollments), 3141, 3311, 3313, 3316, 3341, 4215, 4216, 4311, 4131, and Piano Proficiency Examination.
The major for students seeking certification includes Music 1111 (multiple enrollments), 1181, 1116, 1117, 1308, 1311, 1312, 2116, 2311, 3111 (multiple enrollments), 3141, 3311, 3313, 3316, 3341, 4215, 4216, 4311, 4131, and Piano Proficiency Examination. In addition, the following courses from the Department of Education: ED 3300, 3301, 3302, 3303, 4314, 4322, 4603.
Specialty techniques courses for concentration in instrumental or vocal music may include Music 1114 (two-three enrollments), 1183, and 1314. See an adviser in Fine Arts and Communication for specific requirements.

A Piano Proficiency Examination must be passed before the last semester.

## Music as a Minor

Eighteen semester credit hours in music are required for a music minor (without teacher certification). Courses must include Music 1303 or Music 1116 and Music 1311. Six semester credit hours of music must be at the upper division level. The student must complete four semester credit hours in the area of ensembles, vocal or instrumental; no more than four hours of ensemble may count toward 18 SCH total.

## Second teaching field music coursework

2 hours of 3111 (principal instrument or voice); Piano Proficiency Examination; 3 hours of 1114 or $1314 ; 1116,1117,1308,1311,1312,3141,3313,3316,3341$ and 4311 for a total of 34 approved SCH.

Elementary Education Area of Specialization
Music 1111-01, 1111-03, 1111-16, 1181, 1116, 1308, 1311, 3111-01, 3111-03, 3112, 3311,3313 or 4311.

Bachelor of Music<br>Vocal Concentration Degree Plan Vocal - Education Degree Plan Instrumental Concentration Degree Plan Instrumental - Education Degree Plan Music Business Degree Plan

Course descriptions can be found at the end of this document and online.

## Music Major (Vocal Concentration):

Music 1181, 1111-01 (two enrollments), 1111-02 (three enrollments), 1112, 1114, 1116, 1117, 3112, 1113, 3113 (four enrollments), 3111-01 (three enrollments), 3111-02 (three enrollments), 1308, 1314, 1311, 1312, 2311, 2116, 3141, 3313, 3341, 4131, 4216, 4311, and Piano Proficiency Examination .47
Music 1112-01, 1113, 3112-01, 3113. ..... 5

Or
Music Major (Instrumental Concentration):
Music 1111-01, 1181, 3111-01, 1111 (four enrollments with number indicating the principal instrument), 1112, 3112, 1113, 3113 (four enrollments), 1114 (two enrollments), 1116, 1117, 1311, 1312, 2116, 2311, 3111, 3141, 3341 (three enrollments with number indicating the principal instrument), 3311, 3313, 3316, 4131, 4215, 4216, 4311 and Piano Proficiency Examination 56
Music Electives ............................................................................................................. 6 Total 120

Some courses are offered in alternate semesters or in alternate years and some have prerequisites. Therefore, to ensure realistic planning, prospective music major or minor students should consult with the music major advisor as soon as possible after becoming a student at Sul Ross State University.
Each student pursuing a music major under this program must participate in instrumental ensembles and/or choral ensembles which correspond most closely to the principal instrument or voice during every semester of study. Music Majors must earn a grade of C or better in their music courses.

## THEATRE

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 human beings in action, observing what they do and why. 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 performance opportunities 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 degree is offered in Theatre with three areas of concentration: 1) Acting/Directing; 2) Design and Technical Production; and 3) Film Production. All-level teacher certification is also available.
With this pre-professional degree, students can emphasize acting, theatrical design or teaching. Application to the Bachelor of Fine Arts program involves an audition or portfolio review, evidence of scholarly and creative achievement, and potential for excellence in the field. Acceptance into the program and continuation are dependent upon the student's continued growth, sense of professionalism, and commitment to the art. The suggested curriculum and degree plans will place an emphasis on academic achievement and preprofessional degree attainment. As such, the area of study in a minor field has been eliminated in order to provide focused study in theatre arts. Our students go on to pursue professional advanced degrees in acting, directing, playwriting, film production, screenwriting, production design, and technical production. A teacher certification track is also available. A grade of "C" or better must be achieved in all required theatre courses in or to complete a B.F.A. in theatre. Graduate hours in Theatre may be used for a Master of Education degree or a Master of Arts in Liberal Arts.
The University is a member of the following organizations in the theatre field: the Theatre Communication Group, the Association for Theatre in Higher Education, Southwest Theatre and Film Association, United States Institute of Theatre Technology, and the Texas Educational Theatre Association.

## Bachelor of Fine Arts

Theatre - Acting and Directing Degree Plan

## Theatre - Technical Design and Production Degree Plan

Theatre - Film Production Degree Plan
Course descriptions can be found at the end of this document and online.
Theatre as a Minor
18 SCH hours of coursework to include 6 SCH advanced; no more than 6 SCH from the following can be used for a minor: Theatre 1101, 1102, 2101, 2102, 2308, 3101, 3102, $3303,3307,4101$, or 4102.

## GENERAL STUDIES

College of Literature, Arts, and Social Sciences
E-mail: Ibutler@sulross.edu
General Studies Advisor: Laura Payne, Ph.D., Dean, College of Literature, Arts, \& Social Sciences, Director of Lobo Den

## Program Description

The Bachelor of Arts in General Studies is an individualized program of study designed for the student who wishes to pursue an unspecified program of study with which to meet the student's particular needs. It is a flexible degree program open to full or part-time students. 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 semester the student graduates, the student must also enroll in and successfully complete General Studies (GS) 4100, Senior Assessment.
At the time of entrance into the program each student must complete a degree plan with a General Studies advisor.

## General Studies Degree Plan

Course descriptions can be found at the end of this document and online.

RIO GRANDE COLLEGE<br>(DEL RIO, EAGLE PASS, AND UVALDE)<br>205 Wildcat Dr., Del Rio, TX 78840<br>Jorge Garza Ed.D., Vice President RGC, Chief Operating Officer Phone: (830) 703-4823<br>E-mail: jorge.garza@sulross.edu<br>Patricia Nicosia, Ph.D. Associate Provost<br>Phone: (830) 703-4836<br>E-mail: pnicosia@sulross.edu

## RIO GRANDE COLLEGE

Sul Ross State University Rio Grande College offers educational opportunities for students through off-site instructional campuses in Uvalde, Del Rio, and Eagle Pass. Upper-level and graduate courses are offered in Teacher Education, Business Administration, Humanities, and Natural and Behavioral Sciences. Undergraduate students who enroll in Rio Grande College must have earned a minimum of forty-two (42) transferable semester credit hours from accredited colleges and universities. All students who enroll in Rio Grande College must fulfill requirements for admission and comply with academic regulations stated in this Catalog. The deadlines for withdrawing from classes and applying for graduation for students enrolled in Rio Grande College are published in the Academic Calendar.
Information concerning degree programs, admission requirements, and registration may be obtained from any of the following:
Del Rio Campus: Eagle Pass Campus: Uvalde Campus:
Karla Flores
205 Wildcat Dr.
Del Rio, Texas 78840
Telephone (830) 703-4821

Bianca Vela
3107 Bob Rogers Drive
Eagle Pass, Texas 78852
Telephone (830) 758-5004

Jazell Diaz
2623 Garner Field Road
Uvalde, Texas 78801
Telephone (830) 279-3002

The Rio Grande College consists of the following academic departments:
Department of Business Administration
Department of Education
Department of Humanities (English, History, Social Science, and Spanish)
Department of Natural and Behavioral Sciences (Biology, Criminal Justice, Mathematics, and Psychology)

## CONSORTIUM WITH SOUTHWEST TEXAS JUNIOR COLLEGE

Sul Ross State University Rio Grande College and Southwest Texas Junior College have a financial aid consortium which allows students to be enrolled in classes at both institutions. Certain restrictions and policies apply. Information is available from the Financial Aid offices at RGC and SWTJC. Approval is required from both institutions.

# DEPARTMENT OF BUSINESS ADMINISTRATION 

Phone: (830) 703-4840<br>E-mail: emoura@sulross.edu<br>Professor and Chair: Edison Moura, D.B.A (Del Rio)<br>Professor Emeritus: Terry Carson, D.B.A. (Uvalde),<br>Professor: Thomas Matula, Ph.D. (Uvalde),<br>Associate Professors: Efrain Adames, M.P.A. (Eagle Pass), Mary Jane Sauceda, Ph.D. (Uvalde)<br>* Bachelor of Business Administration Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde<br>Course descriptions can be found at the end of this document and online.

## Minor in Business Administration

A minor in Business Administration requires a minimum of 18 semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU RGC. A maximum of nine semester credit hours of transfer courses may be used.
The following business courses are suggested to fulfil the course requirements for a minor in Business Administration:
ACCR 3312 Accounting Systems
MGTR 3306 Principles of Management
MGTR 4321 Organizational Behavior
MKTR 3307 Principles of Marketing
GBAR 3310 Business Law
ECOR 3301 Intermediate Economics
Please consult a faculty advisor in the Business Administration department for additional information.

## BACHELOR OF APPLIED SCIENCE DEGREE IN ORGANIZATIONAL LEADERSHIP

The Bachelor of Applied Science (BAS) degree with the specialization Organizational Leadership is offered under the administrative oversight of the Department of Business Administration. Questions, interpretations, and exceptions to policy should be presented to the Department Chair or to Dr. Thomas Matula, coordinator of the BAS.

Students must meet the required core curriculum, choose one emphasis, and accumulate sufficient electives and upper-level hours to complete the degree.

## Bachelor of Applied Science with Emphasis in Organizational Leadership Description

This degree offers a path to a baccalaureate degree for those who have undergraduate college credit. The program can be completed in three semesters and one summer depending on previous semester credit hours accumulated. Most undergraduate courses will be accepted for transfer.

## Goals of program

1. Provide a bachelor level degree for working adults holding an associate's degree or who have undergraduate college credit.
2. Develop leadership knowledge and skills for effective leadership in organizations-nonprofit, profit, civic or religious.
3. Develop knowledge and skills for organizational project development, budget setting, and
employee relations.

## Required CORE CURRICULUM 42 SCH (Semester Credit Hours)

## Department requirements for major: <br> Completed Associate of Applied Science degree.

Requirements for the Organizational Leadership sequence
Organizational Leadership sequence............................................................... 21 SCH
ORGL 3300 Organizational Leadership
ORGL 3302 Case Studies in Leadership
ORGL 3304 Professional Communication for Organizations
PSCH 4302 Industrial Organizational Psychology
ORGL 4300 Human Resources and Risk Assessment
ORGL 4302 Budget and Revenue
ORGL 4304 Project Development
Elective hours from RGC - minimum .................................................................... 9 SCH

Students must have 36 advanced hours
Additional hours from AAS degree (maximum)
39 SCH
Total hours for degree .......................................................................................... 120 SCH
Minor
The BAS with emphasis in Organizational Leadership is a composite degree and does not require a minor.
ORGL courses will be allowed to be taken as BBA (Bachelor of Business Administration) electives only if there are no other business electives offered that semester and the student is taking it to graduate in that same semester.

# DEPARTMENT OF EDUCATION 

Phone: (830) 279-3005
E-mail: mmuniz-quiz@sulross.edu
Department Chair: Miriam Muñiz-Quiz, Ph.D. (Del Rio) Director of Teacher Education/Certification: Tonya Senne, Ed.D. (Del Rio) Professors: Miriam Muñiz-Quiz, Ph.D. (Del Rio), Gina L. Stocks, Ph.D. (Uvalde) Associate Professor: Samuel Garcia, Ph.D. (Uvalde), Maria Gear, Ed.D. (Uvalde) Assistant Professors: Dr. Christopher Tresslar, Ph.D., Dr. Jesse Salazar, Ed.D.(Eagle Pass)

## Advisors:

Elementary: Monica Gutierrez, Ph.D., Miriam Muñiz-Quiz, Ph.D., Gina L. Stocks, Ph.D., Maria Gear, Ed.D.
Early Childhood: Gina L. Stocks, Ph.D.
Graduate-Administration: Christopher Tresslar, Ph.D., Jesse Salazar, Ed.D.
Graduate-Reading: Gina Stocks, Ph.D. Jennifer Miller, Ph.D.
Graduate-Counseling: Samuel Garcia, Ph.D.
Secondary Biology: Dan Foley, Ph.D.
Secondary English: Sarah Roche, Ph.D.
Secondary History: Jorge A. Hernandez, Ph.D., Mark Saka, Ph.D.
Secondary Mathematics: Patricia A. R. Nicosia, Ph.D., Michael L. Ortiz, Ph.D.
Secondary Spanish: Veronica Mendez Maqueo, Ph.D.
Secondary Social Studies: Jorge A. Hernandez, Ph.D.
The primary function of the Education Department, within the philosophy of the University, is to INDEX 146 TOC
provide a teaching-learning environment wherein students acquire a liberal and professional education. Realization of this function is sought by combining academic subject area courses, specialized studies, and professional education. Students are provided opportunities to increase their knowledge, to gain insight into the growth of young children and adolescents, to develop competence in teaching, to formulate a sound philosophy of education, and to realize the need for continuous professional growth.
A student may choose a program that leads to teacher certification in Early Childhood (EC)Grade 6 Generalist; Grades 4-8 Generalist, English/ Language Arts and Reading, Social Studies, or Mathematics; and a Bilingual Supplement is available for EC-6 or 4-8. Students may also choose a certification for Grades 7-12 English/Language Arts and Reading, Mathematics, History, Social Studies or Science and EC-12 Spanish. Full program description and requirements are listed in this section. It is the responsibility of the student to request an official degree plan at the beginning of the program, to follow it closely, and to complete all the requirements for the degree, as well as all teacher certification requirements. Students seeking certification must pass the appropriate content TExES exams and the Pedagogy and Professional Responsibilities (PPR).

## Steps to Traditional Teacher Certification at SRSU RGC

- Complete the Core Curriculum hours with at least a 2.5 Grade Point Average (GPA).
- Decide what grade level (EC-6, 4-8, 7-12) to teach; if 7-12, content area also needs to be determined.
- Fill out "Application for Baccalaureate Degree Plan" and submit to Education Department (or if 7-12, submit to the appropriate content area department).
- Follow degree plan in degree works and keep track of progress towards degree.
- After meeting the minimum hour requirement in the "Academic Support Area" of the degree plan with at least a 2.75 GPA, fill out an "Application for Admission to the Teacher Education Program" and submit to the Education Department. Additional requirements for Teacher Education can be found in this section.
- After formal admission into the Teacher Education Program, complete required Professional Education courses.
- Seek test approval for the content certification exam and STR exam for (EC-6, 4-8) from the certification and testing coordinator. Passing the content exam is a requirement for student teaching placement.
- Requirements for test approval:
- Score a 260 in Certify Teacher for your field of study.
- Score a $90 \%$ or higher in 240 Tutoring post-test for your field of study.
- Complete 30-hour observation requirement for student teaching placement.
- Within the last semester of the Professional Education courses, apply for student teaching by filling out the "Application for Student Teaching" form and submit to the Education Department.
- Seek test approval for the PPR exam from the certification and testing officer.
- Score a 260 in Certify Teacher for your field of study.
- Score a $90 \%$ or higher in 240 Tutoring post-test for your field of study.
- Complete all degree requirements, graduate, and apply for certification. When all certification requirements have been verified by the Certification Officer, the student will be recommended to TEA for certification.


## Admission Requirements for the Teacher Education Program

All students seeking teacher certification through the Rio Grande College's Educator Preparation Program must apply for admission to the Teacher Education Program and schedule
an interview with the Director of Teacher Education (TAC 227.10). Professional Education courses cannot be taken until the following minimum requirements have been met and the student is formally admitted into the Teacher Education Program.

## Admission Requirements

## Grades EC-6 and 4-8

- Must have applied and received an official degree plan from the Education Department.
- Must have completed College Algebra and Speech course with no grade lower than a "C".
- Must have all General Education requirements complete and grades must be posted.
- Must have completed 12 hours in English coursework (to include ENGL 3312) with a GPA of 2.5 on a 4.0 scale.
- Must have completed ENGL 3312 with no grade lower than a "B". *ENGL 3312 serves as a requirement of the Texas Success Initiative under rules established by the THECB, Part 1, Chapter 4, Subchapter C of Texas Administrative Code Rule 4.54. A grade of A or B must be received to satisfy the requirement.
- Must have a minimum overall GPA of 2.5 on a 4.0 scale.
- Must have a minimum GPA of 2.75 on a 4.0 scale in the Content Mastery courses.
- In addition to the requirement of ENGL 3312, a candidate must have completed a minimum of 27 hours in Academic Support Area with NO GRADE LOWER THAN A "C". Any grades lower than a C must be replaced and posted to the transcript prior to formal admission.


## Grade 7-12 Content Majors

- Must have completed College Algebra and Speech course with no grade lower than a "C".
- Must have all General Education requirements complete (Core Complete) and grades must be posted.
- Must have completed 12 hours in English coursework (to include ENGL 3312) with a GPA of 2.5 on a 4.0 scale.
- Must have completed ENGL 3312 with no grade lower than a "B". *ENGL 3312 serves as a requirement of the Texas Success Initiative under rules established by the THECB, Part 1, Chapter 4, Subchapter C of Texas Administrative Code Rule 4.54. A grade of A of B must be received to satisfy the requirement.
- Must have a minimum overall GPA of 2.5 on a 4.0 scale.
- Must have a minimum GPA of 2.75 on a 4.0 scale in the content major area.
- In addition to the requirement of ENGL 3312, a candidate must have completed a minimum of 21 hours in the content major area with NO GRADE LOWER THAN A "C". Any grades lower than a C must be replaced and posted to the transcript prior to formal admission.


## Approval to Test (take the state exam)

All students seeking a teacher certification through the Rio Grande College's Educator Preparation Program must seek test approval from the Director of Teacher Education prior to taking official certification exam. The content and STR exams must be taken and significant progress toward passing made prior to student teaching placement. Students are encouraged to contact the Director of Teacher Education or the Certification and Testing Coordinator for more information.

## Criteria to get approval for the exams:

- Take the exam diagnostic test in Certify Teacher and pass it with a 260.
- If needed, re-study and retake the exam practice exam.
- Prepare for the exam practice test with 240 Tutoring and pass the post-test with a $90 \%$ or better.
- If needed, re-study and retake the practice exam

The candidate may only register for exams that correspond to their area of certification through Sul Ross State University RGC.

- Teacher candidates are asked to take the content exam first (EC-6 and 4-8 include the STR) before taking the PPR.
- Teacher candidates will be eligible to register for one state exam after all requirements have been met.
- All candidates must get official "approval to test" every time they want to register for a state exam.


## State Exam Registration

All teacher candidates seeking certification through the Sul Ross State University RGC are required to have "approval to test" before they may register for their certification exams.
Approved candidates navigate two websites to register for tests, the TEA website and the testing vendor's website.
The TEA website is like a house with a locked front door and many rooms inside. The front door is the Texas Education Agency Login or "TEAL." The room candidates want to enter is the Educator Certification Online System or "ECOS." Candidates must enter through a TEAL account to get to information into and out of ECOS. The TEA systems work best with Microsoft Internet Explorer.
Request a TEAL Login account by completing the following steps on the TEA website.
Logging onto TEAL for the First Time

1. Click on ECOS for Educators at the top of the page.
2. Click on Create a New TEAL Account.
3. Select "Educator" as your Organization Type on the TEAL New User Registration form. TEAL will prompt you to enter your Social Security Number and other information.
4. After you have created your TEAL User account, you will receive an email with your new username and password. Follow the link in this email to login, using your new username and password.
5. After changing your password and establishing your security questions, you will be redirected to the TEAL landing page, where you can access the ECOS for Educators application by clicking on the link. TEA provides directions for creating a TEAL account.

## Exam Approval Status

1. To check exam approval status, go to the TEA Website and login to TEAL.

## a. Click on "View Examinations."

2. "Approval to test" will only be granted to teacher candidates that have successfully completed Sul Ross State University RGC eligibility requirements.

Testing Vendor

1. Visit the testing vendor's website to register for a TExES State Exam.
2. Click the "Register" tab, then "Register Now," then "Create an account now." Follow the directions.
3. You will need your TEA ID Number each time you register for a TExES State Exam.
4. Be sure you understand the Candidate Rules Agreement and the ID policy. Your unexpired identification documents must match your name in ECOS. If they do not, you must request a name change from TEA.
5. The testing vendor provides support at (800) 877-4599, (413) 256-2898 or via email or
chat at their website.
Proper Identification Required for Testing
In order to take the TExES exam for certification, candidates who indicate non-U.S. citizenship have to provide a passport from their country of origin. Consular, diplomatic, or embassy ID's are not sufficient. Read the identification requirements at the testing vendor's website and the Identification section on page 29.

## Test Retake Procedures and Rules

## Five Times Rule for Taking State Exams

Candidates may only take the same TExES exam for a total of five times. You must follow TEA procedures to obtain a waiver to take the test more than five times. This is difficult, lengthy and expensive.
Core Subjects (211 \& 291) Exam Retakes
Every time you take Core Subjects test you should sign up for the whole test unless you only have one subtest left to pass. You may skip through the sections of the test you have already passed by clicking next, next, next, and so on until you reach the sections that you still need to pass. Candidates do not need to answer a single question in the sections that they have already passed. The only time a candidate should sign up for an individual subtest is when that is the last test the candidate needs to pass.

## Retake Procedures

If you fail a TExES exam, you must wait 30 days before you can take the test again. You must get the Director of Teacher Education's approval to retake the test. (TAC §230.21(a)(1)(D))
TExES Exams for Teacher Certification
To be a fully certified Texas teacher, university candidates must pass the examinations required by the Legislature in Texas Education Code (TEC) §21.048 and the State Board for Educator Certification (SBEC) in Texas Administrative Code (TAC) §233.1(e). The Texas Education Agency (TEA) administers these tests through a testing vendor. These tests are generally referred to as the Texas Examination of Educator Standards or "TExES" exams. Passing standards for the TExES exams are posted in 19 TAC §151.

Most teacher candidates take two exams, the EC-12 Pedagogy and Professional Responsibilities (PPR) exam, and a content area exam. Candidates pursuing EC-6 and 4-8 must also pass the Science of Teaching Reading (STR) effective January 2021. Candidates pursuing bilingual certification will also take the Bilingual Education Supplemental (BES) and the Bilingual Target Language Proficiency Test (BTLPT). Candidates pursuing English as a Second Language certification will also take the English as a Second Language Supplemental (ESL) exam. TEA posts the complete list of required tests, as well as deadlines for applying for certification, on the Educator Testing website or in TAC §230.21.

TEA is working on two major changes to teacher certification testing.

1. As a result of House Bill $3,86(R), 2019$, Section 2.005 , in order to teach any grade level from prekindergarten to grade six you must pass a test on the Science of Teaching Reading (STR).
2. In 2019-20 and 2020-21 TEA is piloting a new assessment, at different universities, to replace the PPR called edTPA. This performance-based test is much more difficult than the PPR, and 2.5 times as much. Although ultimately the SBEC will decide whether or not to implement this new test, it is in your best interest to take the PPR as soon as you are ready.

## Take the Certification Exams as Soon as Possible

Candidates are required to make significant progress toward PASSING the Content TExES exams BEFORE they begin clinical teaching. Here is a generic timeline. Candidates should start as soon as they enroll in our Education program. They should plan ahead and work diligently toward taking the practice tests and then TExES exams.

## Retention in Teacher Education

To remain fully admitted to teacher education at Sul Ross State University Rio Grande College, students must meet the requirements for admission. A student who does not maintain satisfactory requirements for admission will be removed from the teacher education program. Students will not be permitted to register for additional professional education coursework until they have obtained full admission status.

## Preclinical Field Experience

The completion of the minimum number of hours of fieldwork (30 clock hours) as required by TEA prior to enrollment in student teaching.

## Student Teaching

Student teaching is the capstone experience of the Educator Preparation Program and required for certification. It is a semester-long Student Teaching opportunity to enact teaching knowledge and skills under the supervision of a cooperating teacher and a university supervisor. Candidates are placed in a classroom for fourteen-week schedule (70-day assignment) or two-seven-week schedules (70-day assignment).

## Criteria for acceptance into Student Teaching

- Teacher candidates must meet the following requirements to enter student teaching: Admission to the Teacher Certification program
- Student Teaching is to be completed in the last semester upon completion of your degree.
- A 2.75 cumulative grade point average in Content Mastery and Professional Education courses.
- Pass 3 out of 5 areas of the TExES content test; and other required exams prior to placement in clinical teaching.

Student teaching applicants should consult their advisor and their catalog for specific details regarding their eligibility.

## Applying for the Student Teaching Semester

A required meeting is held early in the semester prior to beginning student teaching to explain the application process and procedures. Student teaching application information is provided, and questions are addressed to facilitate the submission of the clinical teaching application. The meeting dates, times, and location are announced on the Education website or by email.

## Application Deadlines

Student Teaching Application Timeline

## To Student Teach in the

## Application Deadline

## Fall <br> Spring

If an applicant does not meet the criteria for acceptance to the student teaching program, he or she will receive an email denying the application to clinical teaching. Denial emails will be sent after the close of the semester prior to the student teaching semester. The email will explain the reason why an applicant has been denied for student teaching. Teacher candidates may contact
their academic advisor or Director of Teacher Education with any questions regarding their denial notification.

## Certification Requirements

Candidates seeking certification in the state of Texas are required to hold a bachelor's degree in Education or content field, completed a successful clinical teaching experience and pass all required certification exam for the standard certification sought. Certification requirements are supported by the educator standards and may change when the state standards or exam requirements change. All requirements are valid at the time of this publication, however, in the event there are changes to curriculum in the department, college, or mandates from the Texas Education Agency or the Legislature, these requirements will be adjusted to meet any new standards and/or requirements. All coursework toward a certification area is considered "current" for five years. Certification is expected to be completed within 5 academic years.

## Early Childhood-Sixth Grade (EC-6) or Fourth-Eighth Grade (4-8)

A. Completion of 90 semester credit hours or more.
B. Submission of the Application to Clinical Teach.
C. An overall grade point average of 2.5 on the 4.0 scale.
D. Candidates are expected to adhere to the Code of Ethics and Standard Practices for Texas Educators (TAC 247.2). Candidates who violate the code may be subject to removal.
E. Completion of $15-27$ semester credit hours of professional education with an overall grade point average of 2.75 or better on a 4.0 scale, with no grade lower than a "B."
F. Recommendation to Student Teach by the Director of Teacher Education.
G. No grade lower than a "C" in the 12 semester credit hours of required English with a 2.5 GPA.
H. No grade lower than a " $C$ " in the combination of subjects (academic support) with a 2.75 GPA.
I. Select one of the following areas to student teach: EC-6 (EDUC 4607) with proper early childhood courses or grades 4-8 (EDUC 4601) with designated area of study.
J. Must be admitted to the Teacher Education Program.
K. Must have completed at least 30 hours of classroom observation (documented).

## Grades 7-12/Secondary Levels

A. Completion of 90 semester credit hours or more.
B. Submission of the Application to Student Teach.
C. An overall grade-point average of 2.5 on the 4.0 scale.
D. Candidates are expected to adhere to the Code of Ethics and Standard Practices for Texas Educators (TAC 247.2). Candidates who violate the code may be subject to removal.
E. Completion of 12 semester credit hours of professional education with an overall gradepoint average of at least 2.75 on a 4.0 scale, with no grade lower than a "B."
F. Completion of 24 semester credit hours or more of the prescribed courses in each teaching field(s) for secondary majors, of which 12 hours must be advanced, with an overall grade point average of 2.75 or better on a 4.0 scale, with no grade lower than a "C."
G. In the composite field, completion of 36 semester credit hours of the prescribed courses, of which 12 semester credit hours must be advanced, with an overall grade point average of 2.75 or better on a 4.0 scale with no grade lower than a "C."
H. Recommendation to student teach by the head of the department of the student's teaching field or fields.
I. Recommendation to student teach by the Director of Teacher Education.
J. No grade lower than a "C" in the 12 semester credit hours of required English with a 2.5 GPA.
K. Must not be on disciplinary probation.
L. Must be admitted to teacher education.
M. Must have completed at least 30 hours of classroom observation (documented).

## Certification Requirements

All coursework taken for certification must meet the minimum requirements of 2.75 on a 4.0 scale with no grade lower than a "C" in the Academic Support and Professional Education courses. Students must meet all academic requirements as there is no probationary status accepted in the Teacher Education program. STUDENT TEACHING IS REQUIRED FOR CERTIFICATION. Certification requirements will parallel the state standards and may change when the state standards change. Students must meet the current state standards for certification.
NOTE: All requirements are valid at the time of this publication, however, in the event there are changes to curriculum in the department, college, or mandates from the Texas Education Agency or the Legislature, these requirements will be adjusted to meet any new standards and/or requirements. Alumni students that are not enrolled and are lacking the required TExES exams will be required to take any additional courses to prepare for any changes on their corresponding exams. This includes the Science of Teaching Reading (STR).

## Bachelor of Science - Teacher Education Degree

Course descriptions can be found at the end of this document and online.

## Required CORE CURRICULUM 44 SCH

## Departmental requirements:

In addition to the Core Curriculum of 44 required hours, the Education Department requires an additional 7 hours to meet the state requirements for a Bachelor of Science. The General Education requirement varies depending on the area of concentration.

## Applying for Initial Certification

There are five steps to getting your standard Texas Teacher Certificate. 3

1) Complete all the required certification tests.
a) You can see the Required Texas Certification Tests at the Texas Education Agency's Educator Testing webpage or in Figure 19 Texas Administrative Code §230.21(e) from TAC \$230.
2) Successfully complete clinical teaching.
a) You have successfully completed clinical teaching when both your cooperating/mentor teacher and your field supervisor recommend you for certification (TAC §228.35(e)(2)(A)(iii)).
3) Hold a bachelor's degree or higher.
a) Advising cannot recommend you for certification until the Registrar posts your degree.
4) Complete fingerprinting and a national criminal history background check through the Texas Education Agency. The fingerprinting process can take weeks, so plan ahead. If you were fingerprinted through your district, your fingerprints may already be on file with TEA. To confirm this, contact the Fingerprinting Help Desk through the TEA web site. Give them your social security number and ask them to confirm that they have your fingerprints and that they will post to your ECOS account when you apply for your standard certificate.
5) Apply for certification and pay the required fees through your TEAL/ECOS account.
a) For Undergraduate and Graduate program: Apply for a STANDARD certificate,
and the recommending entity is Sul Ross State University RGC-UNIVERSITY BASED.
STOP! Do not apply for certification until you are eligible to be recommended. Teacher candidates who apply without meeting eligibility requirements will be removed from the Sul Ross State University RGC list of candidates and required to reapply.
After you apply, The Director of Teacher Education will recommend students for certifications. There may be a delay between when you apply and when your certificate posts. If you are eligible, Sul Ross State University RGC will complete the recommendation and you will be notified by email that you have been recommended. Your certificate should be available on-line within 24 hours of recommendation.
You will not be officially certified until TEA has:
1. received and applied the required fee,
2. received your fingerprints (if applicable), and
3. completed a criminal history background check.

If you have questions, call the Certification Officer at 830-703-4834 or at sharper@sulross.edu. Address technical questions regarding TEAL or fingerprinting to TEA at 512-936-8400 or the TEA Help Desk

## Post Baccalaureate Certification Requirements

Under regulations established by the Texas Education Agency, an individual having a bachelor's degree from an accredited institution is eligible for a deficiency plan for EC-6; 4-8; or 7-12 certification. The candidate must have an overall grade point average of 2.5 on a 4.0 system at the baccalaureate level. A deficiency plan for completion of certification will be developed. A minimum GPA of 2.75 , with no grade lower than a " C ", in the Content Mastery and Professional Education courses is required for certification.
The candidate must meet the following requirements:
A. Three semester credit hours in Computer Science with no grade lower than a "C".
B. Three semester credit hours of Communications with no grade lower than a " C ".
C. Three semester credit hours of College Algebra with no grade lower than a "C".
D. Twelve semester credit hours, to include ENGL 3312, of English with a 2.5 GPA and no grade lower than a "C". Must complete ENGL 3312 with no grade lower than a " $B$ ".
E. Be admitted to graduate studies as non-degree teacher certification.

## Internships

Criteria for an internship:

1. Must have a Bachelor's degree.
2. Must have passed required certification exams.
3. Must be enrolled in the Alternative Certification program at Rio Grande College
4. Complete a year of teaching under an internship certificate. The mentor teacher or campus level administrator for the district and the university field supervisor both have to be in agreement that the intern has demonstrated proficient skill in all educator standards.

Contact the Director of Teacher Certification for information about the internship semester and the requirements for eligibility at 830-703-4839 or 830-703-4834.

## DEPARTMENT OF HUMANITIES

Phone: (830) 703-4837

E-mail: smoreman@sulross.edu<br>Professor and Chair: Sarah Roche, Ph.D., English (Del Rio)<br>Professors: Jorge Hernandez, Ph.D., History (Eagle Pass) Veronica Mendez, Ph.D., Spanish (Uvalde)

The Department of Humanities offers Bachelor of Arts degrees in English, history, social science, and Spanish, as well as courses in geography and political science for Social Science majors and students seeking teacher certification. All degree programs require a minimum of 30 semester credit hours at SRSU Rio Grande College and a minimum of 36 advanced semester credit hours.

## ENGLISH MAJOR

The Bachelor of Arts degree in English prepares students to communicate effectively and think critically. The English major is an ideal pre-professional major for careers in law, government, journalism, or business. English majors may pursue teaching careers in language arts at the elementary, middle, or high school level or graduate studies leading to the Master of Arts degree or doctoral degrees. Students seeking teacher certification in this major should refer to the Education Department section of this catalog for program admission and certification requirements.
All English courses require completion of the freshman English courses as a prerequisite.

\author{

* Bachelor of Arts - English Degree Plan <br> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde <br> Course descriptions can be found at the end of this document and online. <br> Minor in English
}

For a minor in English, students must complete at least eighteen semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU.

## HISTORY MAJOR

The Bachelor of Arts degree with a History major can be used as the basis for teaching certification in history, as a means for entering graduate studies in the field of history, or as a pre-professional degree to enter studies in law, medicine and other professions. Many businesses also are increasingly realizing the value of a liberal arts degree.

* Bachelor of Arts - History Degree Plan

Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
Course descriptions can be found at the end of this document and online.

## Minor in History

For a minor in history, students must complete at least eighteen semester credit hours of history courses, including a minimum of nine semester credit hours of advanced coursework at SRSU.

## SOCIAL SCIENCE MAJOR

Students who desire a broad field major in the social sciences should follow one of the plans for a major in social science listed below. Inquiries should be directed to the Chair of the Department of Humanities.

\author{

* Bachelor of Arts - Social Science Degree Plan <br> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde <br> Course descriptions can be found at the end of this document and online.
}


## SPANISH MAJOR

A major or minor in Spanish can prepare a student for a career as a teacher, law enforcement officer, translator, interpreter, social worker, public relations officer, sales representative, or manager with a large number of businesses which are seeking bilingual employees. The demand for college graduates with bilingual skills is steadily increasing. In addition, a strong background in Spanish can complement any field of study. The completion of the Spanish major will also prepare a student for graduate studies in Spanish or linguistics.
> * Bachelor of Arts - Spanish Degree Plan

> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde Course descriptions can be found at the end of this document and online.

Majors in Spanish may earn up to 8 semester credit hours in Spanish by passing the CLEP.

## Minor in Spanish

A minor in Spanish requires a minimum of eighteen semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU. A maximum of nine semester credit hours of transfer courses may be used.

## Support Disciplines

Geography (GGR)
Supports Interdisciplinary Studies and Social Science majors.
Political Science (POLS)
Supports Interdisciplinary Studies and Social Science majors

# DEPARTMENT OF NATURAL AND BEHAVIORAL SCIENCE 

Phone: (830) 703-4838<br>E-mail: dfoley@sulross.edu<br>Professor and Chair: Daniel H. Foley III, Ph.D., Biology (Del Rio)<br>Professors: Patricia A. R. Nicosia, Ph.D., Mathematics (Del Rio)<br>Martin G. Urbina, Ph.D., Criminal Justice (Del Rio) Wesley D. Wynne, Ph.D., Psychology (Uvalde)<br>Associate Professors: Michael L. Ortiz, Ph.D., Mathematics (Uvalde)

The Department of Natural and Behavioral Sciences combines several related academic disciplines into one administrative unit. The Department offers the Bachelor of Arts degree in Psychology and the Bachelor of Science in Biology, Criminal Justice and Mathematics. The Department also works with the Department of Education to offer course work leading to teacher certification. All degree programs require a minimum of 30 semester credit hours at SRSU-Rio Grande College and a minimum of 36 advanced semester credit hours.
Students majoring in programs offered by the Department of Natural and Behavioral Science may also be required to participate in an assessment study. Each student should consult their advisor about specific requirements for their major.

## BIOLOGY MAJOR

The curriculum in biology 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 INDEX
students an opportunity to gain an appreciation of the biological world, to develop an inquisitive nature and to think scientifically.
The major orientation of the biology program is 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.

\author{

* Bachelor of Science - Biology Degree Plan <br> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde <br> Course descriptions can be found at the end of this document and online.
}

No course with a grade less the " $C$ " can be used to fulfill Biology course requirements.

## Minor in Biology

A minor in Biology requires a minimum of 18 BIO or BIOL semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU-Rio Grande College. A maximum of nine semester credit hours of 2000 level or above transfer courses can be used. BIO 3300, BIO 3308 or BIO 3309 will not count toward the minor in Biology.

## CRIMINAL JUSTICE MAJOR

A Bachelor of Science degree in Criminal Justice is designed to meet the needs of students pursuing a career in one of several areas of the criminal justice system. The curriculum provides students with both the opportunity and assistance to acquire the knowledge necessary to understand the roles of policing, courts, corrections, juvenile justice and laws as they contribute to social order. It further provides a theoretical foundation of the discipline and offers a thorough understanding of contemporary legal processes applied in criminal justice. The goal at Sul Ross State University-Rio Grande College is to provide students with a structured, nurturing environment conducive to learning. A Bachelor of Science degree in Criminal Justice will qualify graduates for employment in many public service professions. Positions of employment currently exist for educated men and women as criminal justice practitioners at the federal, state, and local levels of government and many private sector agencies.
Students are advised that no more than 12 semester credit hours of Criminal Justice course work may be transferred from a two-year (lower-level) institution.

\author{

* Bachelor of Science - Criminal Justice Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde Course descriptions can be found at the end of this document and online. <br> \section*{Minor in Criminal Justice} <br> A minor in Criminal Justice requires a minimum of 18 semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU-Rio Grande College.
}


## MATHEMATICS MAJOR

The mathematics curriculum is designed to meet the needs of students preparing for a career in education as well as those seeking employment in industry or government or intending to pursue graduate study in mathematics. The program provides a broad foundation in computational, analytical, and humanistic aspects of mathematics and offers students an opportunity to acquire an array of advanced techniques while attaining to a deeper understanding of the universe, human culture, mathematical pedagogy, and the nature of rational inquiry. Students receive a solid grounding in logic, number theory, probability, statistics,
geometry, real variables, modern algebra, and mathematics history, while exploring mathematical ideas in a collaborative environment and developing oral and written communication skills.

\author{

* Bachelor of Science - Mathematics Degree Plan Offered at Alpine, Del Rio, Eagle Pass, and Uvalde Course descriptions can be found at the end of this document and online.
}

Majors in mathematics may obtain credit for Math 1314 and/or Math 1316 by presenting adequate scores on CLEP, DANTES, ACT, or SAT examinations as shown elsewhere in the catalog under the heading, "Credit by Examination" and are encouraged to do so.

## Additional Requirements for the major in Mathematics

Preparation and deliverance of a research paper and oral presentation as part of MTH 4327 during the year prior to graduation. A maximum of 14 semester credit hours in mathematics may be transferred from another institution for the major in mathematics.
No course with a grade less the "C" can be used to fulfill Mathematics course requirements.

## Minor in Mathematics

A minor in Mathematics requires a minimum of eighteen semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU-Rio Grande College. A maximum of nine semester credit hours of 2000 level or above transfer courses can be used. Students may not take MTH 3308, 3309, or 3311.

## PSYCHOLOGY MAJOR

The psychology program is designed for students who want a career in which general psychological knowledge is useful and for students who intend to pursue graduate study in psychology, counseling, and related fields. Coursework emphasizes the development of strong oral and written communication skills, which have wide-ranging applications in many jobs. The program also focuses on the practical application of psychological principles and findings to students' lives. In our classes, students learn how to apply psychology in social and occupational settings, for the enhancement of their relationships with family and friends, and for their career growth. Students will learn about the empirical research process, preparing them to become sophisticated consumers of research in their professional or daily lives, or to become producers of research themselves. Psychology students also learn about themselves; the program encourages self-reflection in many parts of the curriculum, so that students can gain insights into their own behavior, motivations, and feelings.

$$
\begin{gathered}
\text { * Bachelor of Arts- Psychology Degree Plan } \\
\text { Offered at Alpine, Del Rio, Eagle Pass, and Uvalde } \\
\text { Course descriptions can be found at the end of this document and online. } \\
\text { Minor in Psychology }
\end{gathered}
$$

A minor in Psychology requires a minimum of eighteen semester credit hours, including a minimum of nine semester credit hours of advanced coursework at SRSU-Rio Grande College. A maximum of nine semester credit hours of 2000 level or above transfer courses can be used.

## General Academic Regulations Graduate Students

Sul Ross State University offers graduate programs which enable the student to enrich his or her study in a specialized field. A primary tenet of the graduate program is to build greater breadth and depth of knowledge in the student's chosen field of study. Graduate students receive direct instruction, counseling, and research opportunities from world-class educators and researchers. Each graduate student is assigned a faculty committee to mentor his or her academic progress.
All graduate students are responsible for familiarizing themselves with the academic regulations stated in this Catalog; unfamiliarity does not constitute a valid reason for failure to fulfillthem.

## 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:
13. 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.
14. Using, during a test, materials not authorized by the person giving the test.
15. Collaborating, without authorization, with another person during an examination or in preparing academic work.
16. 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.
17. 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.
18. Bribing another person to obtain a non-administered test or information about a nonadministered test.
19. 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.
20. "Plagiarism" means the appropriation and the unacknowledged incorporation of another's work or idea in one's own written work offered for credit.
21. "Collusion" means the unauthorized collaboration with another person in preparing written work offered for credit.
22. "Abuse of research materials" means the mutilation, destruction, concealment, theft, or alteration of materials provided to assist students in the mastery of course materials.
23. "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.
24. "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 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 Suspension. These regulations are intended to be consistent with the following objectives:
7. To indicate to the student, at an early date and with regularity, that achievement below the standards required for graduation is regarded as unsatisfactory;
8. 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;
9. 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;
10. 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 $3.0(\mathrm{~B})$ 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 two long semesters (fall and spring) and a summer session. Each fall and spring 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. 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 INDEX

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 do 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.

[^0]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 30hour 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.

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.
5. Request for exceptions must be made within one semester following the end of the semester being appealed.
6. Students may not petition for exceptions after graduating.
7. All procedures are confidential, respecting the privacy of the student.
8. 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 satisfactory 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's determination to the Provost. 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 Universitysponsored 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 - Lobo Online. 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 five and seldom larger than 20 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 |
| $\mathbf{D}$ | Poor | 1 |
| F | Failure | 0 |
| F0 | Failure/Never Attended | 0 |
| FX | Failure/Stopped Attending | 0 |
| I | Incomplete | 0 |
| CR | Credit | Not Computed |
| NC | No Credit | Not Computed |
| NG | No Grade | Not Computed |
| NR | Not Reported | 0 |
| P | Pass | Not Computed |
| PR | Progress | Not Computed |
| W/WX | Withdrew | Not Computed |

## Incomplete Grades

The grade of " $l$ " 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 "l" 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.

## Not 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

The grade of "PR" (in progress) will be assigned for students in the second semester thesis
course, counseling internship, or practicum courses. Students working on a thesis, 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 " $\mathbf{W}$ " 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 " $F$ ", " $F X$ ", and " $F 0$ " 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

Sym. Purpose<br>E Repeated Course<br>I Repeated Course

Quality Points<br>Not Computed Highest Grade Computed

## 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 $\times 3$ 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.

## 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 grades 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 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 must complete 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 nondegree students who wish to improve their personal knowledge of a subject without receiving INDEX
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 otherstudents.

## 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, (32) 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, 50minute 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. Practicum/Student Teaching hours comply with professional accreditation (ACEN/NCATE requirements).

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 3credit 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

Education records are defined by FERPA 34 CFR 99.3 as follows:
(a) Educational records includes 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 $\S 99.8$.
(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))

## 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 or $\$ 100$ (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 twentyfour (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.

## 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. 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 should be aware of course rotations and dropping a course could impact their ability to graduate within their desired timeframe.
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". 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.
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. The refund policy for dropped courses and withdrawals may be found in this catalog and online at 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. 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 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 entitiled 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:
4. Under no circumstances may graduate courses be taken to fulfill requirements for a baccalaureate degree.
5. No course taken without the requisite permission may be counted for graduate credit toward a degree.
6. There is no guarantee that work approved and completed will be accepted for fulfillment of degree requirements.
7. 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 administrating 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:
C. The date on which payment from VA is made to the institution.
D. 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, graduate assistantships, or other areas. Students considering course drops or resignation should first check with their advisor, College, and Enrollment Services to determine if this is their best option.

# DEPARTMENT OF BEHAVIORAL \& SOCIAL SCIENCES 

History, Political Science, Public Administration College of Arts and Sciences<br>Office: Lawrence Hall 208<br>Phone: (432) 837-8157<br>FAX: (432) 837-8146<br>E-mail: msaka@sulross.edu<br>Professor and Chair: Mark Saka, Ph.D.<br>Distinguished Professor: Jim D. Case, Ph.D., Professor: James W. Downing, Ph.D. Instructors: Kendra DeHart, M.A.<br>Assistant Professors: Bibiana Maria Gutierrez, Ph.D., Alicia Trotman, Ph.D., Jessica Velasco, D.P.A., and Savannah Williamson, Ph.D.<br>\section*{Program Description}

The Department of Behavioral and Social Sciences offers the Master of Arts degrees in History, Political Science, and Public Administration. The department has a limited number of graduate Teaching Assistantships for graduate students in History, Political Science, and Public Administration. For additional information about the assistantships, contact the department chair. The Behavioral and Social Sciences faculty is engaged in a wide-range of research with international, national, and regional focus. There has been a tradition of research addressing Trans-Pecos/Big Bend issues as well as cross-cultural research in Mexico. The Center for Big Bend Studies and the Museum of the Big Bend are closely associated with the department and provide students opportunities for archeological and historical research. The Department of Behavioral and Social Sciences also provides educational opportunities through international travel in Europe and Mexico.
The Texas state legal requirements for course work in United States history and federal and Texas government are met by courses taught in this department. These requirements may be met in a variety of ways indicated in the course descriptions for the appropriate discipline.
The Department sponsors a number of honorary societies and clubs, including: Phi Alpha Theta, the national history honorary society. Pi Sigma Alpha, the national political science honorary society, and Psi Chi, the international psychology honor society, and the Psychology Association, a student organization for psychology majors.
As with all Sul Ross students, students majoring in an academic area within the Department of Behavioral and Social Sciences are required to take a major field assessment examination during the semester in which they graduate. Students should contact their major field advisors concerning specifics of the examinations.

## Features

The department is located in Lawrence Hall and works in cooperation with, the Museum of the Big Bend. In addition to faculty offices, office space for history and political science graduate teaching assistants is available.

## GRADUATE PROGRAM IN HISTORY Offered in Alpine <br> (Master of Arts with a Major in History)

Graduate students in History may earn a Master of Arts degree with a minimum of 36 hours of study. The options are: the thesis option or the non-thesis option. The thesis option requires a minimum of 24 semester credit hours of course work in History and 6 sch of course work of thesis credit. The non-thesis option contains the following two options:

36 semester credit hours History program (36 sch History courses)
Major/minor plan 24-30 sch in History (6-12 sch in minor field)
The student will be required to assemble a committee of three advisors of which two must be in the field of history. At the completion of the coursework, the student will be required to take and pass written comprehensive exams. The comprehensive exams are to be taken at least fourteen days before date of graduation.

## GRADUATE PROGRAMS IN POLITICAL SCIENCE \& PUBLIC ADMINISTRATION

Offered in Alpine

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, 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.
The Master of Public Administration degree is designed to serve the needs of students who are preparing for political or administrative careers in public or governmental service, or continued graduate studies.
Except for the thesis option, course work in Political Science must be supported by a minimum of nine to twelve semester credit hours of graduate course work in a related discipline.
Requirements for a degree may be satisfied as follows:

1. Complete a minimum of 36 semester credit hours of graduate credit coursework including PS 5307, OR
2. Complete a minimum of 24 semester credit hours of graduate credit coursework including PS 5307 plus 6 semester credit hours of PS 6301-6302, Thesis, AND
3. Successful completion of the comprehensive examination required of all graduates. Courses taken at the 3000- and 4000-level for graduate credit, arranged courses, individual instruction courses, and transfer courses may not total more than 12 semester credit hours.

## Admission

The applicant must possess an undergraduate degree and twelve semester credit hours of undergraduate political science and/or history.
Students pursuing a second master's degree may have up to twelve semester credit hours of graduate work from the completed degree program credited to the Master of Arts degree in political science or the Master of Public Administration. This will occur only after full admission to the political science program has been granted by the Registrar and the chairman of the department.
For information on graduate assistantships or other matters, contact:
Mark Saka, Ph.D.
Department of Behavioral and Social Sciences
Sul Ross State University
Alpine, Texas 79832
(432) 837-8157

## Master of Arts with a Major in Political Science

A. Thesis students must complete 30 semester credit hours of graduate course work consisting of the following:

1. Select eighteen semester credit hours of graduate course work in Political Science, including PS 5307.
2. Complete the thesis courses, PS 6301-6302.
3. Select 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.
B. Non-thesis students must complete 36 semester credit hours of graduate course work consisting of the following:
4. Minimum eighteen semester credit hours of graduate course work in Political Science, including PS 5307.
5. Nine to eighteen semester credit hours of course work from outside of Political Science as advised by major advisor.
6. If less than 18 semester credit hours of course work is used in the supporting area from related disciplines, up to nine additional semester credit hours of graduate Political Science course work can be used to bring the total to 36 semester credit hours.

## Master of Public Administration

A. Required Political Science: 15 semester credit hours as follows:

PS 5303 Public Administration Survey
PS 5307 Scope and Methods in Social Science
PS 5310 Public Budgeting and Finance
PS 5311 Intergovernmental Relations
PS 5313 Public Policy Analysis
Minimum 6 semester credit hours from the following Political Science:
PS 5315 Local Government Administration
PS 5316 Special Topics in Public Administration
PS 5317 Seminar in US Government
B. Nine to twelve semester credit hours of course work in a related discipline as advised by major advisor.
C. Three to six semester credit hours of additional Political Science course work to bring the total to 36 semester credit hours.

## DEPARTMENT OF BIOLOGY, GEOLOGY, \& PHYSICAL SCIENCES

College of Arts and Sciences<br>Office: Warnock Science Building 216<br>Phone: (432) 837-8112<br>E-mail: biology@sulross.edu<br>Chair and Professor: Dan H. Foley III, Ph.D.<br>Distinguished Professor Emeritus: A. Michael Powell, Ph.D. and David Rohr, Ph.D. Professor Emeritus: Martin K. Terry, Ph.D., D.V.M.<br>Professors: Elizabeth Measures, Ph.D., Christopher Ritzi, Ph.D.<br>Kevin Urbanczyk, Ph.D. and James C. Zech, Ph.D.<br>Assistant Professors: Anirban Bhattacharjee, Ph.D., Hong Yong Chang, Ph.D., Thomas Shiller, Ph.D.,<br>Instructor: Jessica Kelsch, M.S.

## Program Description

The Department of Biology, Geology, and Physical Sciences offers course work leading toward

Masters of Science degrees in Biology and Geology. The department has a limited number of Graduate Teaching and Research Assistantships for students enrolled in the MS Biology and Geology programs. For additional information about these assistantships, please contact the department chair.

The department sponsors a number of honorary societies and clubs, including: Beta Beta Beta, the National Biological Honor Society, and Sigma Gamma Epsilon, the National Honor Society for the Earth Sciences. The department also houses active student clubs, such as the Chemistry Club, Geology Club, and Biology Club, in addition to being affiliated with other social and service clubs.

The countryside around Alpine is characterized by rugged mountains interspersed with high plateau grasslands and lowland deserts. The area is generally referred to as the Big Bend Country and represents the northern part of the great Chihuahuan Desert. The tremendous diversity of landscape, habitat and rocks makes the entire area a huge natural outdoor laboratory unmatched elsewhere for the study of the natural sciences.

## FEATURES

The department is located in the Warnock Science Building. Within the science building, we maintain two modern lecture halls, 10 laboratories outfitted for the various sciences, a planetarium, a chemical analytical lab, a molecular biology lab, a rock processing lab, a Geographical Information System (GIS) lab, an interdisciplinary analytical lab, and teaching and research collections of vertebrates, invertebrates, rocks, minerals, fossils, and a herbarium. A more detailed explanation of these resources is provided below.
The chemistry laboratories and the chemical analytic lab possess such teaching tools as DR-3000 Hach Spectrophotometer, Beckman Ultraviolet \& Visible Spectrophotometer, Perkin-Elmer Atomic Absorption (AA) Spectrometer, Thermo Scientific Nicolet IS 10 FT-IR Spectrometer, Nuclear Magnetic Resonance (NMR) Spectrometer, BUCK Scientific Gas Chromatographs, high performance liquid chromatography (HPLC), Vacuum Oven, Micromaster microscope model CK, and pH meters to study semi-liquids in trace quantities, digital thermometers, analytical balances to weigh trace quantities of samples, and Parr Bomb Calorimeter.

The A. Michael Powell Herbarium occupies 1 wing of the building with 119 cases holding approximately 100,000 specimens. The major collections include plants of Trans-Pecos Texas in the northern Chihuahuan Desert Region. The Herbarium is a prominent regional research collection available to botanists around the world, and is also a valuable teaching facility for both undergraduate and graduate students interested in various botanical disciplines or in wildlife biology.

The James F. Scudday Vertebrate Collection contains 1,300 amphibians, 6,257 reptiles, 1,243 birds and 2,871 mammals for a total of 11,671 specimens. Each specimen is appropriately preserved for permanent storage and use. Records for each specimen include family, scientific name, locality and other collection data. The vertebrate collection serves as a valuable resource for research and teaching. Specimens are available for study by researchers at other institutions. The collection is largely regional, including excellent representation of the vertebrates occurring in the southwestern USA and Mexico. Also included are a substantial number of specimens from other regions of North America and some from other continents.
The Jim V. Richerson Invertebrate Collection is a major scientific resource for the department and the university. It is available to students and visiting scientists. About 80,000 adult pinned specimens and about the same number of immature stages are housed in 30 museum cases. The collection emphasizes insects of the northern Chihuahuan Desert Region in Trans-Pecos

Texas and includes especially fine assemblages of insects that live on or in a range of plants and insects that vector animal (including human) diseases. The orders Lepidoptera, Odonata, Orthoptera and Coleoptera have been curated and identified more extensively than other insect orders represented in the collection, although a substantial collection of pollinators in the order Hymenoptera have been curated in recent years. Additionally, a robust collection of ectoparasitic arthropods of over 50,000 slide-mounted specimens is housed within the collection, helping to document the arthropod-vertebrate associations found both in the area and around the world.

The Biology Field Plot is a site for experimentation with various plant species including oaks, pines, grapes, and cacti. Additionally, Sul Ross owns 10 different plots of land varying from 5 to 40 acres in size in the Terlingua Ranch Properties. These areas cover a variety of different ecological and floral habitats.
The Sul Ross State University Analytical Laboratory houses an array of equipment accessible to students and faculty for a number of analytical purposes. Equipment in the lab includes a JOEL JSM-6010LA Scanning Electron Microscope (SEM), which is used to obtain microscopic images of samples and to collect information regarding the chemistry of the samples using the attached Energy Dispersive X-Ray spectrometer. The lab also houses a DIONEX ion chromatograph which is used to analyze anions in water samples; the lab also includes a Denton Vacuum sputter coater (Au, Au-Pd, and C) for SEM sample preparation and a Branson ultrasonic cleaner. The laboratory also has an ARL Perform'X X-Ray Fluorescence Spectrometer (XRF). This is a wavelength dispersive instrument that is ideally suited for the chemical analysis of rocks and minerals. The lab uses a low dilution fusion glass bead sample preparation technique. The lab also has a Bruker D2 Phaser X-Ray Diffractometer (XRD) that adds the additional capability to analyze the crystalline structure of minerals.

The lab is located adjacent to the Geology sample preparation lab which includes two 14 -inch slab saws and one 18 -inch slab saw, an 8-inch trim saw, a lap wheel, a Geoform thin-sectioning device, a Spex tungsten carbide and steel shatter box grinder, ceramic jaw crushers, high temperature oven, a Spex pellet press, a Frantz isodynamic magnetic separator, various sieves and sieve shaker, non-toxic heavy liquids for mineral and microfossil separation and fume hoods.

The Microbiology and Molecular lab contains many pieces of equipment used for various processes and purposes. It houses the SmartSpec Plus Spectrophotometer, DR 3800 Benchtop Spectrophotometer, NanoVue Spectrophotometer, and the BioRad SmartSPE Spectrophotometer, which are all used, in different ways, to measure the amount and wavelengths of light that pass through a sample. Another item used by the Microbiology lab is the HPLC (High Performance Liquid Chromatography) Analyzer. This instrument is used to separate compounds in a sample in order to purify and/or quantify them. Also in this lab are two autoclaves and several different types of centrifuges such as a 26 KM FS Centrifuge, a Mistral 3000 E Centrifuge, a Micro HERMLE Z180M Centrifuge, and several Clinical Microfuges. Also in the lab is a REVCO 8517.2 cu . ft. freezer for sample storage. Also included are several different formats of incubators ranging from water-jacketed, $\mathrm{CO}^{2}$ jacketed, coliform bathed, to convection incubators. All of which are used to provide a proper environment for the growth of samples and cultures used in the lab. Also several microscopes can be found in this lab. The Moticom 2500 Camera Microscope, the Inverted Research Microscope, and the Carl Zeiss Photo IIIP Microscope are all used in the study and analysis of samples.

The GIS laboratory is a modern GIS lab with new dual monitor computers, a plotter and a site license for the latest version of ArcGIS for Desktop. The lab is utilized for many interdisciplinary applications and maintains software to support these. The laboratory benefits from cooperative agreements with the Texas Parks and Wildlife Department and the National Park Service.

Through these and other sources, the laboratory has compiled an extensive spatial library for the Trans-Pecos and northern Mexico region, including Landsat scenes, complete coverage in standard GIS datasets (DRG, DOQ, NED, Transportation), and additional geologic, hydrologic and biologic datasets. The lab utilizes a robust network attached storage (NAS) system so that users can access the data from anywhere on campus or from anywhere with a network connection and VPN. The NAS system ensures redundant data backup.
The department also has access to a variety of field equipment. The list of hydrologic equipment includes Teledyne RiverRay and StreamPro Acoustic Doppler Current profilers, and a Sontek Flow Tracker Hand-held Acoustic Doppler velocimeter. These instruments are used to measure stream discharge and can also be used for bathymetry. Portable flumes are available for measuring discharge in smaller streams and springs. A Spectra Precision SP80 RTK GPS unit and a fully robotic Focus 35 total station are available for field survey projects. These instruments are used for a variety of field applications and can be used with the available DJI Matrice 600 Inspire UAVsand a MicaSense multispectral sensor for photogrammetry projects. The department also has access to a RIEGL VZ-400i 3D Laser scanner which is used in combination with the other survey equipment for geomorphic change detection analysis and other 3D characterization projects. A portable particle size analyzer, field water titration and filtration equipment, and a variety of pressure transducers for measuring water levels are also available.

The list of available field equipment also includes 4 rafts, 15 canoes, trailers and other necessary equipment to conduct multiple day field trips. Departmental field trips, filed courses, and river trips benefit from an extensive set of back-country camping gear.

## MASTER OF SCIENCE WITH A MAJOR IN BIOLOGY

Offered in Alpine

An individual with a bachelor's degree may enter, if qualified, into the graduate program in Biology for the Master of Science degree. The degree may be obtained by completing 30 semester credit hours in biology, including the writing of a thesis (Plan I), by completing 36 semester credit hours and a "mini thesis" (Plan II), or by completing 36 semester credit hours in biology (Plan III). Culminating requirements for both Plan I and Plan II are 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. The department will, at the discretion of the student and committee, accept toward the master's degree 6 semester credit hours of coursework in a department other than the major. As with all Master's degrees at Sul Ross State University, all graduate course work is to be completed within six years of beginning the program. If the degree is not completed by that time, courses up to 10 years old can be counted for $1 / 2$ credit pending an approved request by the major advisor to the department chair and the academic dean.

## GRADUATE PROGRAM IN GEOLOGY <br> Offered in Alpine <br> Master of Science with a Major in Geology

The graduate program at Sul Ross emphasizes the fundamentals of geology through an integrated field and laboratory approach leading to the Master of Science degree. ADMISSION
A. For FULL admission to the Graduate Program in Geology, the following are required:

1. Acceptance by the Biology, Geology, and Physical Sciences Department
2. An acceptable undergraduate academic record, and GPA, which includes the
completion of the following or their equivalents:
a. Math 2413 Calculus I
b. Any one of the following three courses:
3. Math 2414 Calculus II
4. Math 2318 Linear Algebra
5. Computer Programming Class
c. Chemistry $1311 / 1111$ or 1312/1112
d. Physics 1301/1101 or 1302/1102 or higher
e. Geology 2405 Optical Mineralogy
f. Geology 3402 Structural Geology
g. Geology 3408 Stratigraphy and Sedimentation
h. Geology 4401 Sedimentary Petrology
i. Geology 4403 Igneous and Metamorphic Petrology
j. Geology 3601 Field Geology
k.
6. Completion of the Graduate Record Examination (General) with an acceptable score.
7. A letter of intent.
8. A resume or curriculum vitae.
9. A minimum of two letters of recommendation attesting to applicant's ability to do graduate level work.
B. Students may be conditionally admitted subject to completion of the following:
10. Leveling work to satisfy the undergraduate requirements listed in A.2. above. Courses not counted toward the graduate degree, such as leveling courses, are noted on the transcript with an asterisk and are not calculated in the graduate grade point average. Leveling classes are included on the degree plan but are not applied to graduate credit.
11. Completion of the Graduate Record Exam (General) with an acceptable score during the initial year of enrollment.

## Geology Graduate Degree Requirements

The graduate program requires the successful completion of course work with the expectation to complete and successfully write and defend a thesis.

## Students must select at least one course from each of the following groups:

a. 5306, 5312, 5322, 5332,
b. $5308,5317,5402,5403$,
c. $5320,5326,5328$

Most Geology graduate courses are offered on alternate years.
Students must also take one semester of Seminar (GEOL 5101) and the Geology techniques course (GEOL 5334).
The Geology program will, at the discretion of the student and Geology faculty, accept toward the Master's degree no more than six semester credit hours of coursework in a department/program other than the major. Approval must be obtained prior to enrolling in the course.
The Geology program or the students committee will evaluate the progress (term or annual basis) of Masters' thesis candidates.

Plan 1. Thesis Option: Thirty semester credit hours of coursework in Geology, including a minimum of 24 SCH of 5000 -level courses and 6 SCH of thesis ( 6301 and 6302). A thesis must be proposed, written, successfully defended, and a comprehensive oral exam (involving the thesis committee only) passed for this option. A maximum of 6 SCH of approved graduate credit may be transferred from another accredited institution. Any transfer requires the approval of the Geology faculty advisor, department chair, and the Dean of the College of Arts and Sciences prior to
finalizing the degree plan.
Plan 2. Mini-thesis Option: Completion of 36 SCH of coursework in 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) passed for this option. A maximum of 6 SCH of approved graduate credit may be transferred from another accredited institution. Any transfer requires the approval of both the Geology faculty advisor, department chair and the Dean of the College of Arts and Sciences prior to finalizing the degree plan.

Plan 3. Non-thesis Option: Completion of 36 SCH of coursework in 5000-level Geology courses and pass a comprehensive written and oral exam (involving the entire Geology faculty and faculty from other disciplines from whom courses were taken).
A maximum of 8 SCH of approved graduate credit may be transferred from another accredited institution. Any transfer requires the approval of the Geology faculty advisor, department chair and the Dean of the College of Arts and Sciences prior to finalizing the degree plan.

# DEPARTMENT BUSINESS ADMINISTRATION 

College of Education and Professional Studies
Morelock Academic Building, 309
Box C-35, Alpine, TX 79832
(432) 837-8066

Fax: (432) 837-8003
E-mail: wcgreen@sulross.edu
Interim Chair and Professor: William C. Green, Ph.D.
Associate Professor: Francisco Pallares, D.ED
Lecturer: Clark Nussbaum, M.B.A.
Assistant Professor: Jawanna Sanderson, M.S., CPA

## GRADUATE PROGRAMS IN BUSINESS ADMINISTRATION

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 those students who are interested in preparing themselves 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.
The departments offer a one to two-year online MBA degree on an asynchronous basis.
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 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 Department 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. Leveling work requirements may include: Accounting 2301 and/or 2302; Economics 2301 and/or 2302; Finance 3340; Marketing 3370; Management 3360; and General Business Administration 3352.

## * MASTER OF BUSINESS ADMINISTRATION <br> Offered at Alpine, Del Rio, Eagle Pass, and Uvalde (30 hours)

The two-year Online MBA program is delivered using Blackboard and various synchronous tools as necessary. As noted, this program is an attractive option to those already in the workforce and/or who have time constraints.
Accounting for Management ACCA 5307 or ACCR 5307 ..... 3
Managerial Economics ECOA 5303 or ECOR 5303 ..... 3
Seminar in Financial Management FINA 5306 or FINR5306 ..... 3
Business Strategy GBAA 5311 or GBAR 5311 ..... 3
Seminar in Management MGTA 5304 or MGTR 5304 ..... 3
Seminar in Marketing MKTA 5305 or MKTR 5305 ..... 3
MBA Electives: ACCA or ACCR or ECOA or ECOR or FINA or FINR or GBAA or GBAR or MGTA or MGTR or MKTA or MKTR 5000-5999 ..... 12
Total 30

## Program Requirements

A. The student must complete an approved program of 30 SCH .
B. Core requirements for all MBA students 18 SCH
C. In addition to the core requirements, students must complete 12 SCH of elective courses in Business Administration in consultation with the major advisor.
D. Transfer Credit

1. No more than twelve of the thirty semester credit hours of required work may be transferred into the program and only with the approval of the Business Administration Department Chair.
2. Seminars, courses and institutes offered by educational agencies of the United States Armed Services which are approved for graduate credit by the American Council on Education may be submitted for transfer credit.
3. All transfer course work must have a relationship to the student's program of study and must be approved by the Business Administration Department Chair.

## Other program requirements

A. Students who do not maintain a satisfactory grade point average will be subject to probation and then suspension (see general academic regulations).
$B$. Students must earn a grade of $B$ or better in each graduate course undertaken. $A$ minimum 3.0 GPA is required for graduation.
C. Students must take the ETS MBA Major Field Test during their graduating semester.

# DEPARTMENT BUSINESS ADMINISTRATION 

Rio Grande College<br>Phone: (830) 703-4840<br>E-mail: emoura@sulross.edu<br>Professor and Chair: Edison Moura, D.B.A (Del Rio)

Professor Emeritus: Terry Carson, D.B.A. (Uvalde),<br>Professor: Thomas Matula, Ph.D. (Uvalde)<br>Associate Professors: Mary Jane Sauceda, Ph.D. (Uvalde), Efrain Adames, M.P.A. (Eagle Pass)

## GRADUATE PROGRAMS IN BUSINESS ADMINISTRATION

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 those students who are interested in preparing themselves 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.
The departments offer a one to two-year online MBA degree on an asynchronous basis.
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 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 Department 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. Leveling work requirements may include: Accounting 2301 and/or 2302; Economics 2301 and/or 2302; Finance 3340; Marketing 3370; Management 3360; and General Business Administration 3352.

## * MASTER OF BUSINESS ADMINISTRATION Offered at Alpine, Del Rio, Eagle Pass, and Uvalde (30 hours)

The two-year Online MBA program is delivered using Blackboard and various synchronous tools as necessary. As noted, this program is an attractive option to those already in the workforce and/or who have time constraints.

Accounting for Management ACCA 5307 or ACCR 5307................................................ 3
Managerial Economics ECOA 5303 or ECOR 5303 ........................................................ 3
Seminar in Financial Management FINA 5306 or FINR 5306........................................... 3
Business Strategy GBAA 5311 or GBAR 5311................................................................ 3
Seminar in Management MGTA 5304 or MGTR 5304...................................................... 3
Seminar in Marketing MKTA 5305 or MKTRG 5305........................................................ 3
MBA Electives: ACCA or ACCR-or ECOA or ECOR or FINA or FINR or GBAA or GBAR or MGTA or MGTR or MKTA or MKTR 5000-5999

## Program Requirements

A. The student must complete an approved program of 30 SCH .
B. Core requirements for all MBA students 18 SCH
C. In addition to the core requirements, students must complete 12 SCH of elective courses in Business Administration in consultation with the major advisor.
D. Transfer Credit
4. No more than twelve of the thirty semester credit hours of required work may be transferred into the program and only with the approval of the Business Administration Department Chair.
5. Seminars, courses and institutes offered by educational agencies of the United States Armed Services which are approved for graduate credit by the American Council on Education may be submitted for transfer credit.
6. All transfer course work must have a relationship to the student's program of study and must be approved by the Business Administration Department Chair.

## Other program requirements

D. Students who do not maintain a satisfactory grade point average will be subject to probation and then suspension (see general academic regulations).
$E$. Students must earn a grade of $B$ or better in each graduate course undertaken. $A$ minimum 3.0 GPA is required for graduation.
F. Students must take the ETS MBA Major Field Test during their graduating semester.

# DEPARTMENT OF FINE ARTS AND COMMUNICATION 

## College of Arts and Sciences

Office: Fine Arts Building 106
Phone: (432) 837-8218
E-mail: mscott3@sulross.edu
Assistant Professor and Chair: Marjorie Scott, M.F.A. Professors: Carol H. Fairlie, M.F.A.
Associate Professor: Avram Dumitrescu, M.A.A., Ross Fleming, M.F.A., Karrin Ford, Ph.D. and Joseph G. Velasco, Ph.D.
Assistant Professors: Andrew Alegria, D.M.A., Carolyn Barrientes, M.F.A., Jeffery Meyer, D.M.A., Bret Scott, M.F.A., Gregory Tegarden, M.F.A. and Mary-Elizabeth Thompson, D.M.A.

## Program Description

The Department of Fine Arts and Communication, comprising the academic disciplines of art, communication, journalism, music and theatre, offers the following degrees and teacher certifications:

Bachelor of Arts: Communication
Bachelor of Fine Arts: Art and Theatre
Bachelor of Music
Master of Arts: Art
Teacher Certification: Art, Communication, Music and Theatre
Graduate course work is offered in Art, Communication, Music, and Theatre.
The Department of Fine Arts and Communication, which firmly supports Sul Ross State University's "student-centered campus" philosophy, offers students invaluable "hands-on" training and opportunities through its various courses and activities. Through their all-encompassing curricula, the programs in art, communication, music, and theatre prepare their students for the graduate and/or professional world: as educators, as artists, as performers, as technicians, etc. The Department serves as one of the primary cultural centers for the Big Bend region of West Texas. Therefore, the Department's four programs offer a broad range of creative activities,
including student and professional art shows, vocal and instrumental concerts, television, film and radio productions, year-round theatrical productions, and radio theatre.
All students are eligible to join the eight honorary societies, and clubs that are sponsored by the Department of Fine Arts and Communication.
Honorary societies include Lambda Pi Eta (the national communication honorary society), Alpha Psi Omega (the national theatre honorary society), and Kappa Pi (the national art honorary society). Student organizations include the Art Club (for students whose interests lie in the visual arts), the Music Club (for students who wish to promote the activities of the Music Program), the Sul Ross Theatrical Society (for all students interested in theatre arts), and the Video Club (for students interested in producing independent video/film projects).

## Features

The Department of Fine Arts is located in the Francois Fine Arts Building, with the main office and the chair's office in FAB 106. Departmental facilities located in the Fine Arts Building include the band hall (FAB 100), the art gallery (FAB 102), the costume shop (FAB104), the Studio Theatre (FAB105), the choir room (FAB 200), the television production studio (FAB 205), the radio station and production room (FAB 206), the computer lab (FAB 207), as well as several classrooms, music practice rooms, and faculty offices. Additionally, the Department has a scene shop, located at the Kokernot Outdoor Theatre, and a ceramics and sculpture annex, located to the east of the Industrial Technology Building. Sul Ross State University has four performing spaces: Marshall Auditorium (a 700 seat proscenium facility), the Studio Theatre (a 120 seat proscenium facility), the Kokernot Outdoor Theatre (a 200 seat modified, outdoor proscenium theatre), and the Kokernot Amphitheatre (a 100+ seat natural amphitheatre). State-of-the-art lighting, sound and rigging have recently been installed in Marshall Auditorium and the Studio Theatre. The Kokernot Outdoor Theatre and Amphitheatre have been designated by the Texas Commission on the Arts as part of Alpine's State Cultural District.

## GRADUATE PROGRAM IN ART <br> Master of Arts in Art: Degree in Studio Art or Art History <br> Offered at Alpine

(36 hours)
The MA in Studio Art prepares students to teach and work in the field, community art colleges, art museums and community-based art programs. Students entering this program are expected to have a BA or BFA in Art, at least 30 hours in core and advanced studio art and 6-9 hours of core art history classes. They must have achieved competencies in the foundational skills of drawing and design and have a 2-d or 3-d specialization. The masters of Art core outcomes are based on standards developed by NASAD and by CAA (College Arts Association) Through the MA core art coursework, all students must take a contemporary art history class, a special topics in art history and a pedagogical class on teaching methods at the college level. The main body of the MA coursework focuses on proficiency in a specific area of specialization. Students must also have 3 graduate classes in a minor area. In art history, this becomes a topical field relating to their area of interest. Students are required to demonstrate their professional readiness through the development of Final Thesis or Problem in Lieu of thesis proposal and a Final Thesis Project or capstone. All students receiving an MA in Art must also pass a comprehensive written and oral exam.

# DEPARTMENT OF HOMELAND SECURITY AND CRIMINAL JUSTICE 

College of Education and Professional Studies

## Program Description

The Homeland Security and Criminal Justice graduate degree programs are designed to meet the needs of students pursuing a career in several areas of the criminal justice system. Students can choose a Master of Science degree in Criminal Justice or a Master of Science degree in Homeland Security, which will qualify graduates for employment in many public service professions.

## MASTER OF SCIENCE PROGRAM IN CRIMINAL JUSTICE (CJ)

## Offered in Alpine (Online MS Degree)

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 hours (SCH) non-thesis 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.

## Master of Science in Criminal Justice Degree Plan

(36 Semester Credit Hours- SCH)
In addition to meeting the university-wide requirements for all Master's degree programs found in this catalog, all students must (1) complete the required core (18 SCH); (2) complete an appropriate number of electives, and (3) successfully complete the comprehensive examination.
I. Required Core. Students must complete the
following 18 SCH core:
CJ 5315 Seminar in Courts and Judiciary
CJ 5318 Seminar in Criminal Justice Theories
CJ 5325 Graduate Seminar
CJ 5334 Methods of Social Research
CJ 5311 Advanced Law Enforcement Administration
CJ 5314 Seminar in Corrections
II. Electives: In addition to the 18 SCH required core, students must complete 18 hours of graduate level Criminal Justice electives for a total of 36 SCH .

Total 36 SCH
Outside electives: With prior approval from the graduate Coordinator, students may select electives from other departments in order to fulfill the outside elective requirement.
A maximum of 12 SCH credit hours from any other university or department at Sul Ross State University will be applied to the graduate degree requirements. Existing transfer credits will be evaluated at the time of admission. Students enrolled in the Master of Science in Criminal Justice
program are required to gain written approval from the Graduate Coordinator prior to enrollment in any courses or programs at other universities if the student wishes to transfer these credits to their degree plan. All transfer credits accepted for the degree plan must have a grade of B or better.
No student will be permitted to substitute any transfer course for CJ 5325. Substitutions for CJ 5318 or 5334 are not generally approved; however, a student may present a syllabus and course description for review by the Graduate Coordinator.

## MASTER OF SCIENCE PROGRAM IN HOMELAND SECURITY (HS)

## Offered in Alpine (Online MS Degree)

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, and (4) 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 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.

## Admission Requirements

In addition to the university-wide requirements for admission to a Master's program council in this catalog, there are special requirements for this program. While holding an undergraduate degree in Criminal Justice is not required for admission, background familiarity with the field and additional basic skills are highly recommended.
Students pursuing a second master's degree must present the same background as undergraduates, and might be able to have a maximum of 12 SCH of graduate work from the completed degree program credited toward this degree. This will occur only after full admission to this program has been granted by the Director of Admissions and the Chair of the Criminal Justice Department.
For information on graduate assistantships, or other matters please contact:
Homeland Security and Criminal Justice Department
SRSU Box C-12
Alpine, TX 79832
(432) 837-8166

## Master of Science in Homeland Security Degree Plan (36 Semester Credit Hours SCH)

In addition to meeting the university-wide requirements for all Master's degree programs found in this catalog, all students must (1) complete the required core (18 SCH); (2) complete 9 SCH from the set of designated electives; (3) complete 9 SCH of other electives, and (4) successfully complete the comprehensive examination.
I. Required Core. 12 SCH :

CJ 5323 Homeland Security
CJ 5327 Graduate Seminar in Homeland Security
CJ 5334 Methods of Social Research

CJ 5340 Policy Making in CJ
CJ 5322 Immigration Issues
CJ 5330 Emerging Issues in Homeland Security
II. Designated Electives. 9 SCH:

Choose 9 SCH from the following: CJ 5328 Seminar on Transnational Crimes
CJ 5329 Seminar in Emergency Management and Disaster Preparedness
CJ 5336 Seminar on Domestic Terrorism
CJ 5337 Seminar on International Terrorism
CJ 5360 Seminar in Cybercrime
CJ 5361 Seminar in Criminal Profiling
CJ 5362 Criminology of Cybercrime
CJ 5363 Cybercrime Law and Policy
CJ 5364 Seminar in Cyber Warfare
CJ 5365 Seminar in Cybercrime Investigation
III. Other Electives. 9 SCH :

Students will select 9 SCH of electives from graduate level courses in Criminal Justice or Political Science/Public Administration, or may select courses in other subjects with approval of the Graduate Coordinator. A maximum of 12 SCH credit hours from any other university or department at Sul Ross State University will be applied to the graduate degree requirements. Existing transfer credits will be evaluated at the time of admission. Students enrolled in the Master of Science in Criminal Justice program are required to gain written approval from the Graduate Coordinator prior to enrollment in any courses or programs at other universities if the student wishes to transfer these credits to their degree plan. All transfer credits accepted for the degree plan must have a grade of $B$ or better.
No student will be permitted to substitute any transfer course for CJ 5327. Substitutions for CJ
5323 or 5334 are not generally approved; however, a student may present a syllabus and course description for review by the Graduate Coordinator.

## Other Graduate Program Requirements

Comprehensive Exam
All graduate students must pass a comprehensive exam at the end of their graduate studies. Comprehensive exams are designed to demonstrate how well the student has integrated the knowledge gathered throughout their studies in the master's program. While the questions come from specific areas, they generally reflect broader issues than what a student will find in a single class.
Students may attempt the comprehensive exams only if they have been admitted to candidacy and only during the last semester of their graduate studies. The student will be permitted access to the practice exams throughout the last semester of study and will take the actual exam at some point during the last 3 weeks of the semester - to be scheduled through the Graduate Coordinator.
Exams will consist of 300 multiple-choice questions divided into the 3 core subject areas (100 questions per area) represented by the required core courses on the degree plan. Students must score a minimum of $75 \%$ on each of the 3 sections to pass. This score is not cumulative.
For the CJ or CJ/PA degrees, the comprehensive exams will cover Theory, Research Methods and Courts/Legal subjects. For the HS or HS/PA degrees, the comprehensive exams will cover Homeland Security, Research Methods and Policy subjects.
If a student does not pass all the sections of the Comprehensive Exam the first time, they must retake the failed section(s) of the exam a second time, at a time to be scheduled
through the Graduate Coordinator. A student who fails their second attempt on any section of the comprehensive exam may petition (must show significant cause) the Graduate Coordinator for a third attempt. The student can expect one of 3 outcomes from their petition:

1. Student will be required to take remedial course work - to be determined in consultation with the HS \& CJ faculty - before taking the exam again.
2. Student will be allowed to take the exam a third time with no other requirements.
3. Student will not be allowed to take the exam again and will be removed from the program. Students who do not take the comprehensive exams during their last semester of study will not be permitted to graduate until this exam is taken and passed. Any student sitting out a semester (not enrolling in courses for their program of study) will be required to apply to the university for readmission to the program. Readmission will require taking at least one graduate level course, to be chosen in consultation with the Graduate Coordinator, during the semester for which the student is readmitted. The student must complete this course with a grade of $B$ or better and complete the comprehensive exams during this semester in order to graduate.
For further information on graduate admissions, comprehensive examinations and other admissions and graduation requirements see "Academic Regulations for Master's Degree Programs" in this catalog and the Homeland Security and Criminal Justice Graduate Handbook.

## DEPARTMENT OF EDUCATION

## College of Education and Professional Studies

Office: Morelock Academic Building, 305
Phone: (432) 837-8170
Fax: (432) 837-8390
Dean and Associate Professor: Barbara Tucker, Ph.D.
Associate Professor and Interim Chair: Barbara Tucker, Ph.D. Director of Teacher Education: Matthew G. Marsh, ABD. Professors: Galen Privitt, Ed.D. and Rebecca Schlosser, Ed.D. Associate Professors: Jeanne Qvarnstrom, Ed.D.
Assistant Professors: Diana Rodriguez, Ed.D., Jennifer Haan, Ph.D., Lisa Thompson Sousa, Ph.D., Ronda Hayes, ABD and Tiffany Telesca, Doctoral Candidate Instructors: Glenn Short, M Ed.
Coordinator, Undergraduate Teacher Education Program: Diana Rodriguez, Ed.D. Coordinator, Counselor Education Program: Ronda Hayes, ABD
Coordinator, Clinical Mental Health Program: Tiffany Telesca, Doctoral Candidate Coordinator, Educational Leadership Program: Jennifer Haan, Ph.D. Coordinator, Superintendent Program: Galen Privitt, Ed.D. Coordinator, Educational Diagnostician Program: Lisa Sousa, Ph.D.
Coordinator, Educational Instructional Technology Program: Barbara Tucker, Ph.D. Coordinator, Master of Education-General: Jeanne Qvarnstrom, Ed.D. Coordinator, Teacher Education Program: Matthew G. Marsh, ABD.

## Program Description

Sul Ross State University was created in 1920 as a state normal college for the primary purpose of preparing teachers for the public schools of West Texas. Our continuing mission in the Department of Education is to develop life-long learners who are reflective practitioners of their craft. Our vision includes preparing high quality educators.
Graduate programs include general education, counselor education, school administration, reading, and educational diagnostician. Degree options and certification programs are described under Graduate Programs in Education within this section.

## GRADUATE PROGRAMS IN EDUCATION

At the graduate level the primary objective of the Department of Education is to enable you to further your study in your chosen field of specialization. Students may obtain a general master's degree in General Education. Within the General Education Master's degree, students may select a general master's degree with a specialization area. Master's programs lead to certification in counselor education, diagnostician, reading, principal and superintendent. The master's degree and certification programs require three years of teaching experience prior to admission, a grade point average of 3.0 or higher on a 4.0 scale with no grade lower than a "B." Master's programs each have additional guidelines. Prior to registering for the programs concluding practicum the TExES certification exam must be taken and passed. For information pertaining to a specific certification, see the coordinator, director, or advisor of that program. The number of semester credit hours (SCH) will depend on the specialization and certification sought. Either a Master's Comprehensive Examination or successful presentation of a Program Portfolio (Electronic) must be completed in the last semester of required coursework, whichever is required by the specific program. It is the responsibility of the student to apply for the comprehensive exam/portfolio presentation.
Always consult with your advisor.

## MASTER OF EDUCATION - EDUCATIONAL INSTRUCTIONAL TECHNOLOGY

Offered in Alpine List of University Courses
30 semester credit hours
8-week course format for first 27 hours
A master's degree in Educational Instructional Technology requires 30 semester hours. The Educational Instructional Technology program requires a grade point average of 3.0 or higher on a 4.0 scale with no course grade of a "C" being accepted, all course work must meet the course grade requirement of "B" or better. All course work requires approval of the major advisor and must be completed within 6 years. Students enrolled in the graduate level Educational Instructional Technology program may be expected to meet with the program faculty at any point during the program in order to evaluate progress

[^1]
# MASTER OF EDUCATION - EDUCATIONAL LEADERSHIP 

Offered at Alpine

List of University Courses

## Requirements for Master of Education with specialization in Educational Leadership with the Principal as Instructional Leader Certification

This is a 30 -hour graduate program resulting in a Master of Education with Principal as Instructional Leader Certification. By the end of the first semester of the Educational Leadership Program, a student must obtain permission from their district and campus leadership to complete the certification practicum coursework or the student may not seek certification. (They may still obtain the M.Ed. in Educational Leadership without Principal as Instructional Leader Certification, as outlined below.) Students must obtain a minimum of a 3.0 ("B") for each course completed in the program. Credit will not be accepted for any course in the program for which students did not receive a 3.0 ("B"). Students will be responsible for completing all required coursework, including 160-hours of practicum coursework, successful portfolio defense, university required practice and practice examination. Students must score a minimum of $80 \%$ on a TExES 268 practice examination provided by CertifyTeacher.com or other representative TExES 268 test as designated in the Program Handbook and provide appropriate evidence. Students must complete the AEL and T-TESS trainings and provide the completion certificates to their advisor. Prior to recommendation for certification, students must pass the state-mandated certification examinations, the TExES 268 and 368 (PASL).

## Advisor/Student Interview

The student and major advisor will complete an interview regarding his/her potential career as a campus-based administrator. This informal interview will allow the advisor to place the student in the appropriate degree and/or certification plan and discuss any questions regarding the course of study. The interview can be held via telephone, Skype, or other synchronous communication.

```
Required Course Work: (30 sch)
(Transfer credits may be applied as applicable)
            EDUA 5319 School Law
+ EDUA 5309 Introduction to School Administration
+ EDUA 5332 Educational Research I
++ EDUA 5333 Educational Research II
    EDUA 6305 Curriculum, Instruction & Assessment
    EDUA 6355 Instructional Leadership: Planning, Implementation
    EDUA 6324 School Support Services
        EDUA 7100 Practicum I
        EDUA 7101 Practicum II
++ EDUA 7102 Practicum III
    EDUA 7304 Educational Leadership for Principals
        EDUA 6389 Special Populations and Programs
+ Must be taken within the first 6 semester credit hours
++ Must be taken in last semester
```


## Additional Program Requirements:

1. Hold a valid Texas standard certification or evidence of equivalent preparation.
2. Must have a minimum of two years teaching in a T.E.A. accredited school
3. Complete all course work in a six (6) year period and earn no less than a 3.0 ("B") in each Ed. Leadership course
4. File application and successfully defend the Portfolio in the last semester of course work.

## Additional Certification Requirements:

1. Provide Certificate of Completion of AEL \& T-TESS certifications from a Region Service Center or other approved institution.
2. Purchase and complete Certify Teacher as Instructional Leader Test Preparation (TExES 268) and review software or other approved TExES 268 Review.
3. Provide certificate showing completion of 6 hours of study and Certify Teacher Principal as Instructional Leader (TExES 268) Test Preparation or other approved TExES 268 Review.
4. Provide certificate showing a score of 260 or $80 \%$ on the CertifyTeacher.com Principal as Instructional Leader, TExES 268 Practice Examination, or other approved TExES 268 Practice Test.
5. Apply for certification and pay appropriate fees.
6. Maintain a leadership role on a campus sufficient to allow the candidate to complete the practicum course requirements and provide necessary permission forms to allow students to complete the TExES 368 PASL requirements. Recommendation for certification will occur after the student has passed the TExES 268 and 368 Examinations.

## REQUIREMENTS FOR MASTER OF EDUCATION-EDUCATIONAL LEADERSHIP WITHOUT CERTIFICATION

The Master of Education in Educational Leadership without principal certification is a 30-hour program designed for individuals who do not hold Texas teacher certification or a Master of Education degree or related master's degree. The M.Ed. Educational Leadership without Certification may be taken entirely online. Students will be responsible for completing all required coursework and successful portfolio defense. Students must obtain a minimum of a 3.0 ("B") for each course completed in the program. Credit will not be accepted for any course in the program for which students did not receive a 3.0 (" B "). This option is designed for students who are seeking administrative positions other than the principal or assistant principal positions. Students with a master's in Education with Specialization in Educational Leadership obtained from Sul Ross State University after Spring 2019 may return (subject to time deadlines) and obtain the Principal Certification by completing the Certification Practicums I, II, and III (EDUA 7100, EDUA 7101, and EDUA 7102). Additional coursework may be required if the Certification Program has undergone substantive curricula changes. NO credit will be given for courses older than five (5) years.
To receive the M.Ed. Educational Leadership without certification, the student must complete each of the following:

Required Course Work: (30 sch)<br>EDUA 5319 School Law<br>+ EDUA 5309 Introduction to School Administration<br>+ EDUA 5332 Educational Research I<br>++ EDUA 5333 Educational Research II<br>EDUA 6305 Curriculum, Instruction \& Assessment<br>EDUA 6355 Instructional Leadership: Planning, Implementation \& Monitoring of the Instructional Program<br>EDUA 6324 School Support Services<br>EDUA 7304 Educational Leadership for Principals<br>EDUA 6389 Special Populations and Programs

EDUA 5302 The Principalship -. (See below description of field-based experience.)

+ Must be taken within first 6 hours
++Must be taken within first 9 hours


## Additional Program Requirements for Non-Certification M.Ed.:

1. Complete all coursework in a six (6) year period; earn no less than a 3.0 ("B") in each Ed. Leadership course.
2. File application and successfully defend the Portfolio in last semester of course work.

# REQUIREMENTS FOR PRINCIPAL CERTIFICATION (CERTIFICATE ONLY) 

Offered in Alpine<br>List of University Courses

The Principal Certification Program is designed for students who already possess a Master's degree in education or a related field, hold Texas teacher certification, and wish to earn principal certification. Upon acceptance, a transcript review will be performed by the major advisor to determine proficiency. Additional coursework may be required if an acceptable level of proficiency is not demonstrated by previous coursework and experience. Students who have completed a Master's in Education with specialization in Educational Leadership may transfer courses into this certification program that are the equivalent (as determined by the Educational Leadership Coordinator and Education Department) if previously obtained within the required time limits. Additional coursework may be required if the Certification Program has undergone substantive curricula changes. Students must obtain a minimum of a 3.0 ("B") for each course completed in the program. Credit will not be accepted for any course in the program for which students did not receive a 3.0 ("B"). NO credit will be given for courses older than five (5) years.

A student must obtain permission from their district and campus leadership to complete the certification practicum coursework before students will be accepted into the certification program. Students will be responsible for completing all required coursework, including 160hours of practicum coursework, successful portfolio defense, university required practice and practice examination Students must score a minimum of $80 \%$ or 260 , whichever is higher, on a TExES 268 practice examination provided by CertifyTeacher.com or other representative TExES 268 test as designated in the Program Handbook and provide appropriate evidence. . Students must complete the AEL and T-TESS trainings and provide the completion certificate to their advisor. Prior to recommendation for certification, students must pass the state-mandated certification examinations, the TExES 268 and 368 (PASL).

## Advisor/Student Interview

The student and major advisor will complete an interview regarding his/her potential career as a campus-based administrator. This informal interview will allow the advisor to place the student in the appropriate degree and/or certification plan and discuss any questions regarding the course of study. The interview can be held via telephone, Skype, or other synchronous communication.

## Students seeking certification-only as a principal must complete these course requirements: ( 27 sch )

EDUA 5319 School Law

+ EDUA 5309 Introduction to School Administration
++ EDUA 5333 Educational Research II
EDUA 6305 Curriculum, Instruction \& Assessment

EDUA 6355 Instructional Leadership: Planning, Implementation \& Monitoring of the Instructional Program
EDUA 6324 School Support Services - This course must be taken with EDUA 7101 EDUA 7100 Practicum I - Advisor Approval Required. Must be taken with EDUA 7304 EDUA 7101 Practicum - Advisor Approval Required. Must be taken with EDUA 6324 EDUA 7102 Practicum III - Advisor Approval Required. Must be taken with EDUA 6355 EDUA 7304 Educational Leadership for Principals - Must be taken with EDUA 7100 EDUA 6389 Special Populations and Programs
(see below description of field-based experience)

+ Must be taken within the first 6 semester credit hours
++ Must be taken in the last semester


## Additional Program Requirements:

1. Hold a valid Texas standard certification or evidence of equivalent preparation.
2. Must have a minimum of two years teaching in a T.E.A. accredited school
3. Complete all coursework in a six (6) year period; earn no less than a 3.0 ("B") in each Ed. Leadership Course.
4. File application and successfully defend the Portfolio in last semester of course work.

## Additional Certification Requirements:

1. Provide Certificate of Completion of AEL \& T-TESS certifications from a Region Service Center or other approved institution.
2. Provide Certificate of Completion of AEL \& T-TESS certifications from a Region Service Center or other approved institution.
3. Purchase and complete Certify Teacher as Instructional Leader Test Preparation (TExES 268) and review software or other approved TExES 268 Review.
4. Provide certificate showing completion of 6 hours of study and Certify Teacher Principal as Instructional Leader (TExES 268) Test Preparation or other approved TExES 268 Review.
5. Provide certificate showing a score of 260 or $80 \%$ on the CertifyTeacher.com Principal as Instructional Leader, TExES 268 Practice Examination, or other approved TExES 268 Practice Test.
6. Apply for certification and pay appropriate fees.
7. Maintain a leadership role on a campus sufficient to allow the candidate to complete the practicum course requirements and provide necessary permission forms to allow students to complete the TExES 368 PASL requirements. Recommendation for certification will occur after the student has passed the TExES 268 and 368 Examinations.

## Advisor/Student Interview

The student and major advisor will complete an interview regarding his/her potential career as a campus-based administrator. This informal interview will allow the advisor to place the student in the appropriate degree and/or certification plan and discuss any questions regarding the course of study. The interview can be held via telephone, Skype, or other synchronous communication.

## Program Evaluation Process

Students will be monitored as they progress through the Educational Leadership Program.
There are six major program benchmarks.

1. After completion of EDUA 5309, Introduction to School Administration, EDUA 5332 Educational Research I, EDUA 5333 Educational Research II, EDUA 7304, Educational

Leadership, and EDUA 6305 Curriculum, Instruction and Assessment, students will complete a comprehensive assessment on the change process.
a. This assessment includes multiple choice and essay questions that ask students to demonstrate mastery of the elements of a targeted improvement plan for both Domain I and Domain II problem statements. Students must score an $80 \%$ on the Change Process test to demonstrate mastery.
2. As part of the EDUA 7304 Educational Leadership course, students will create a plan outlining the steps to create a Professional Learning Committee or Leadership Team that includes planning, implementation, and monitoring steps.
3. As part of the EDUA 6355 course, students will create a targeted improvement plan that addresses an identified need that will impact student achievement. This plan will include a plan for the implementation and monitoring steps.
4. As part of the EDUA 6324 School Support Services course, students will create a Professional Development Plan tailored to a targeted improvement plan that addresses a prioritized problem, root cause(s) and a solution. Students will also prepare a budget and ensure in the plan that resources are in place for successful implementation. This plan will include a plan for the implementation and monitoring of the Professional Development.
5. At the conclusion of the third Practicum course (EDUA 7102), students will create and present a comprehensive Portfolio with work from all courses that demonstrates a mastery of each Domain and Competency. Students will be evaluated by a committee of Educational Leadership professors.
6. As part of the Practicum, students seeking Certification will take a CertifyTeacher practice examination and a Representative Practice Examination. Students must score an $80 \%$ on the Representative Test and a 260 on the CertifyTeacher practice examination to demonstrate mastery.

# REQUIREMENTS FOR SUPERINTENDENT CERTIFICATE 

Offered in Alpine<br>List of University Courses

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 visits. Students who possess a Master's degree from an accredited institution who only seek certification as a Superintendent must complete these requirements.

1. Hold Texas Teacher Certification
2. Hold Principal certification, Mid-Management Certification, or an equivalent certification.
3. Serve for at least three years in a Texas Education Agency accredited school.
4. Consult with Graduate Advisor.
5. Purchase and pass Certify Teacher Superintendent Preparation and Review material software.
6. Participate in an approved TExES review.
7. Pass the Superintendent TExES Examination (195) (see advisor for approval requirements).
8. Apply for certification and pay appropriate state fees.
9. Complete the prescribed 17 hours of course work consisting of these courses

EDUA 7306 Superintendent Leadership
EDUA 7408 The Superintendency
EDUA 7321 Superintendent/School Board Relations
EDUA 7422 Superintendent Finance Issues
EDUA 7311 Practicum in Superintendency
All courses for superintendent certification must be completed at Sul Ross State University within a 6 (6) year period. No transfer courses are permitted without advisor and department approval. With approval of the graduate advisor, a maximum of six (6) hours of course work may be substituted from graduate programs at Sul Ross State University. Students must successfully complete 7 semester credit hours each semester and the 3 sch, semester-long practicum during the second, and final, semester. EDUA 7306 and EDUA 7408 are taught in the Fall semester and EDUA 7321 and EDUA 7422 are taught in the spring semester. We do not currently offer superintendent certification courses in the summer sessions.

## MASTER OF EDUCATION - EDUCATIONAL DIAGNOSTICIAN

Offered in Alpine<br>List of University Courses

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 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).
A master's degree in Educational Diagnostician requires 30 semester hours in education for the handicapped, psychoeducational and diagnostic assessment, and resource areas. All coursework requires approval of the major advisor and must be completed within 6 years.

## COURSE REQUIREMENTS

EDUA 5306 Assessment of Individual Intelligence
\# EDUA $5307 \quad$ Graduate Research (Must be taken within first 12sch)
EDUA 5312 Advanced Survey, Exceptional Children
EDUA 5320 Assessment for Multi-Tiered Systems of Support
EDUA 5321 Foundations of Special Education Law
EDUA 5325 Evidence-Based Practice
EDUA 5323 Appraisal of Educational Disabilities
EDUA 6308 Advanced Human Growth \& Development
EDUA 6314 Diagnosis and Remediation of Reading Disabilities
EDUA 7318 Practicum in Special Education
\# Required for degree; must be taken at Sul Ross within first 12 hours
With the approval of the Graduate Advisor, a maximum of six hours of equivalent course work may be substituted or transferred from an accredited institution.

For recommendation of certification, the applicant must:

1. Complete the 30 SCH Diagnostician program, along with the practicum;
2. Hold a valid Texas teaching certificate;
3. complete a minimum of three years teaching in a T.E.A. accredited school;
4. pass TExES Educational Diagnostician (253) examination (see advisor for approval requirements).
5. Complete a Portfolio Defense of the Program

# REQUIREMENTS FOR EDUCATIONAL DIAGNOSTICIAN (CERTIFICATION ONLY) 

Offered in Alpine<br>List of University Courses

Option for students already holding a master's degree in education or related field from an accredited university. All coursework leading to certification must be taken at Sul Ross State University and transfer credit will not be awarded for courses taken at another university. The typical Certification Only student can expect to complete a minimum of 21 hours towards certification. The student must apply to the university and meet the admission criteria. Upon acceptance, a transcript review will be performed by the major advisor to determine proficiency. Additional coursework may be required if an acceptable level of proficiency is not demonstrated by previous coursework and experience.
Students who possess a Master's degree from an accredited institution who only seek certification as an educational diagnostician must complete these requirements:

1. Have a Master's degree from an accredited institution of higher education or an equivalent degree approved by the Graduate Advisor
2. Hold a valid Texas teaching certificate or equivalent Consult with Graduate Advisor and file a certification plan
3. Complete the required 21 SCH hours of course work as shown below:

## COURSE REQUIREMENTS

EDUA 5306 Assessment of Individual Intelligence
EDUA 5312 Advanced Survey, Exceptional Children
EDUA 5320 Assessment in Multi-tiered Systems of Support
EDUA 5321 Foundations of Special Education Law
EDUA 5323 Appraisal of Educational Disabilities
EDUA 6314 Diagnosis and Remediation of Reading Disabilities
EDUA 7318 Practicum in Special Education
Course substitutions or transfers for the certification only option are not allowed.
For recommendation of certification, the applicant must:

1. Complete the 21 SCH Diagnostician program, along with the 160 clock hour practicum;
2. Hold a valid Texas teaching certificate;
3. Complete a minimum of three years as Teacher of Record in a T.E.A. accredited school;
4. Pass TExES Educational Diagnostician (253) examination (see advisor for approval requirements).
5. Apply for certification and pay appropriate state fees.

## MASTER OF EDUCATION - COUNSELING

Offered in Alpine
List of University Courses
The Master of Education degree in Counseling at Sul Ross State University has prepared INDEX
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 professors are Licensed Professional Counselors and Texas Certified School Counselors. Combined, there are over 50 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 most affordable program in the United States.
This master's degree in Counseling requires 48 semester hours from the Core courses. The Counseling program requires a grade point average of 3.0 or higher on a 4.0 scale with no course grade of a "C" being accepted., All course work must meet the course grade requirement of "B" or better. All course work requires approval of the major advisor and must be completed within 6 years. Students enrolled in the graduate-level counseling program may be expected to meet with the Counseling faculty at any point during the program in order to evaluate their progress.

## SCHOOL COUNSELING TRACK

The School Counseling program track prepares students to become certified school counselors in the state of Texas. This program track is designed to develop the 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 the school setting. To qualify for the school counseling program and meet the certification requirements, the following must be met:

1. Complete the 48 School Counselor Education program;
2. Must have a Texas teaching certification
3. Have a minimum of two years teaching in a TEA accredited school; and
4. Pass the TExES examination (\#252 School Counselor).

## Core (48 Hours)

EDUA 5307 Graduate Research
EDUA 5313 Lifestyle and Career Development Counseling
EDUA 5314 Personality and Counseling Theories
EDUA 5315 Assessment in Counseling
EDUA 5322 Behavior Management
EDUA 6308 Advanced Human Growth and Development
EDUA 6318 Multiculturalism and Diversity in Counseling
EDUA 6333 Ethical, Legal \& Professional Issues in Counseling
EDUA 6345 Family Counseling
EDUA 6347 Introduction to Play Therapy
EDUA 7301 Clinical Practice in Counseling
EDUA 7302 Management of Counseling Programs
EDUA 7303 Applied Counseling Approaches and Methodology
EDUA 7315 Group Process in Guidance and Counseling
EDUA 7316A Practicum in Guidance and Counseling
EDUA 7323 Emotional Intelligence
Students must consult with advisors in counseling before enrolling each semester.
Students will follow the Cohort Model that will begin with each semester: Fall, Spring, and Summer Start.

CLINICAL MENTAL HEALTH COUNSELING TRACK<br>Offered in Alpine

The Clinical Mental Health Counseling track is a CACREP aligned program that prepares students to become Licensed Professional Counselors (LPC). This program is designed to develop the 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.
By completing the 60-credit hour counseling program at Sul Ross State University, students are eligible to begin the licensing process towards becoming a Licensed Professional Counselor. This license is managed by the Texas State Board of Examiners of Professional Counselors, 1100 West 49th Street, Austin, Texas 78756-3183 (512-834-6658).

After completion of academic and clinical experience, graduates can begin the pathway to LPC licensure. Graduates from the Clinical Mental Health Counseling program at Sul Ross must complete the application process with the Texas State Board of Examiners of Professional Counselors to become an LPC Associate. The pathway toward licensure requires the completion of 3,000 hours of supervised clinical work under the supervision of an LPCSupervisor.
Courses required for Clinical Mental Health Counselors (Licensed Professional Counselor-LPC) include the 48 credit hours from the Core plus an additional 12 credit hours
EDUA 5307 Graduate Research
EDUA 5313 Lifestyle and Career Development Counseling
EDUA 5314 Personality and Counseling Theory
EDUA 5315 Assessment in Counseling
EDUA 5322 Behavior Management
EDUA 6308 Advanced Human Growth and Development
EDUA 6318 Multiculturalism and Diversity in Counseling
EDUA 6333 Ethical, Legal, And Professional Issues in Counseling
EDUA 6341 Advanced Psychopathology and Psychopharmacology
EDUA 6342 Substance Use, Abuse, and Addiction
EDUA 6345 Family Counseling
EDUA 6347 Introduction to Play Therapy
EDUA 7303 Applied Counseling Approaches and Methodology
EDUA 7301 Clinical Practice in Counseling
EDUA 7302 Management of Counseling Programs
EDUA 7315 Group Processes in Counseling
EDUA 7320 Professional Issues and Ethics in Counseling
EDUA 7323 Emotional Intelligence
EDUA 7316 Practicum in Counseling (100 hours)
EDUA 7317 Internship (600 hours)
Students must consult with advisors in counseling before enrolling each semester.
Students will follow the Cohort Model that will begin with each semester: Fall, Spring, and Summer Start.

## * MASTER OF EDUCATION - GENERAL

Offered at Alpine, Del Rio, Eagle Pass, and Uvalde
A master's degree in Education General requires 33 semester credit hours (SCH) from Resource \& Electives and Area of Specialization. All coursework requires approval of the major advisor.

Course Requirements

* EDUA 5307, EDSR 5301 or EDUA 6376

EDUA 5317 or EDSR 5317
EDUA 5316 or EDSR 5316
EDUA 5319 or EDSR 5319
EDUA 6308 or EDSR 6308
*Must be taken within the first 12 hours.

Graduate Research, Research Methodology, Or Inquiry-Based Research Methods History, Philosophy and Trends in Education Multicultural Perspectives in Education School Law
Advanced Human Growth \& Development

Plus 18 SCH from the Area of Specialization with advisor approval. Total 33 SCH.

## DEPARTMENT OF KINESIOLOGY \& HUMAN PERFORMANCE

College of Education and Professional Studies
Graves Pierce, 101
Office: (432) 837-8120
Fax: (432) 837-8234
E-mail: kinesiology@sulross.edu
Chair and Associate Professor: Christopher Herrera, Ph.D., M.B.A. Assistant Professor: Billy Jack Ray, Ed.D., Shanna Moody, Ed.D., Hugh Morrissey, ABD Lecturer: Mary Powers, M.S.
The Department of Kinesiology is located within the Graves-Pierce Complex, which houses facilities for academic program as well as recreation, wellness and intramurals including an indoor swimming pool, two collegiate size gymnasiums, an aerobics/dance room, a wellness room, a free weight room, racquetball courts, a sauna and a whirlpool. There are also tennis courts, a football stadium, an all-weather track, baseball fields, softball fields and intramural fields for soccer, and disc golf on campus.

MASTER OF SCIENCE IN HEALTH \& HUMAN PERFORMANCE<br>Offered via Distance Education (100\% online degree)<br>Program Coordinator: Billy Jack Ray, Ed.D.<br>Office: (432) 837-8444<br>E-mail: billy.ray@sulross.edu

Graduate study 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 graduate program to accommodate interested individuals with the desire to work in a health or sports setting. Courses are eight weeks (or five weeks in the summer) with the a fast-track option permitting up to two courses per eight-week session, or four courses per semester (Note: This 'fast-track' option is only available to students granted full admission and in good academic standing). All courses must be selected with the advice and approval of the Program Coordinator. Students holding a 3.0 GPA or higher after taking 24 hours of coursework in the program are eligible to take the comprehensive exam and the final six-hour practicum required to graduate. No more than twelve (12) hours of graduate transfer work may be counted on the degree.

# MASTER OF SCIENCE IN SPORTS ADMINISTRATION <br> Offered via Distance Education (100\% online degree) <br> Program Coordinator: Billy Jack Ray, Ed.D. 

Office: (432) 837-8444
E-mail: billy.ray@sulross.edu
The mission of the Master of Science in Sports Administration degree program is to effectively prepare students for a variety of leadership positions within athletic and sport organizations at the community, educational, and/or professional levels. Students will be provided quality instruction through the latest distance education technology, opportunities for research and professional development, and field-based experiences. The program is led by a diverse group of faculty with expertise in sports marketing, sports leadership, sports law, group dynamics, and sports administration.

This graduate program is fully online and is offered through the Department of Kinesiology and Human Performance leading to the Master of Science in Sports Administration (SA) degree. The SA offers an all online, 30-hr graduate degree and follows an 8-week format, allowing student to completed the MS degree in as little as one-year-or longer. The program offers a rolling admission-start in the Fall, Spring, or Summer term.

## DEPARTMENT OF LANGUAGES AND LITERATURE

College of Literature, Arts, and Social Sciences<br>Office: Morelock Academic Building, 114<br>Phone: (432) 837-8151<br>Fax: (432) 837-8714<br>E-mail: smoreman@sulross.edu<br>Professor and Chair: Sally Roche, Ph.D. Professor Emeritus: Nelson Sager, Ph.D.<br>Professors: Kathy Stein, Ed.D.<br>Associate Professors: Rosemary Briseño, Ph.D., Theron Francis, Ph.D., Ian Peddie, Ph.D. Assistant Professor: Ana Acevedo, Ph.D.<br>Lecturer: Julie Vega, M.A.

## Program Description

The Department of Languages and Literature offers coursework leading to a Master of Arts degree in English.

## GRADUATE PROGRAM IN ENGLISH <br> Offered in Alpine

The graduate program in English is designed to meet 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:

- the 36 SCH English program option ( 36 SCH English courses);
- the major/minor program option (24-30 SCH in English; 6-12 SCH in another enhancing field/area;
- the thesis option in literature or writing ( 24 SCH English; 6 SCH thesis);
- the portfolio option in creative writing (33 SCH English; 3 SCH portfolios).

All graduate students, regardless of option, must complete 6 SCH in English literature, 6 SCH in American literature, and 6 SCH in language/writing/theory. In addition, all graduate students must pass a comprehensive M.A. exam near the end of their studies. Thesis students must provide an oral defense of the thesis.

The graduate faculty can guide students who wish to focus on American and English literature, creative writing, as well as literary and composition theory. The faculty includes those who specialize in language and theory, cultural and gender studies, environmental studies, and creative writing.

# GRADUATE PROGRAM IN LIBERAL ARTS 

## Offered in Alpine

College of Graduate Studies

E-mail: Ibutler@sulross.edu
Liberal Arts Advisor: Laura Payne, Ph.D.

## Program Description

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, LA 5101 and LA 5301 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.

## THE FACULTY - Alpine Campus

## Ana S. Acevedo

Assistant Professor of Spanish
B.A., 1996, M.A., 2000, University of Texas-Pan American; Ph.D., 2015, Texas Tech University

Andrew Alegria
Assistant Professor of Music
B.M., 2003, Baylor University; M.M., 2012, University of New Mexico; D.M.A., 2018, Louisiana State University
John Allen
Instructor of Industrial Technology
B.S., 2000, Prairie View A \& M University; M.B.A., 2015, Texas Tech University

Carolyn Barrientes
Assistant Professor of Theatre
B.A 1987, University of Texas at Austin; M.F.A., 2000, University of Iowa

Oguzhan Basibuyuk
Chair \& Professor of Homeland Security and Criminal Justice
B.A., 1997, Turkish National Police Academy; M.A., 2003, Gazi University; Ph.D., 2008, University of North Texas
Anirban Bhattacharjee
Assistant Professor of Physics and Astronomy
Bachelor of Technology, 2004, Visveswaraiah Technological University; M.S., 2010, Ph.D., 2014, University of Wyoming
Jamie A. Boyd
Assistant Professor of Animal Science
B.S., 2000, Berry College; M.S., 2006, Ph.D., 2009, University of Georgia

Rosemary Briseño
Assistant Professor of English
B.A., 1997, University of Texas at Austin; M.A., 2000, Sul Ross State University; Ph.D., 2008,

Washington State University

## Angela Brown

Associate Professor of Mathematics
A.S., 2000, Lee College; B.S., 2003, Sam Houston State University; M.S., 2006, Sam Houston State University; Ph.D., 2012, University of Texas at Arlington

## Eric Busby

Assistant Professor of Industrial Technology
B.Arch., 2001 Prairie View A\&M University; M.B.A., 2006 Texas Woman's University; M.S., 2015 Texas

Tech University; Ph.D., 2019 Texas Tech University

## Sandra S. Chambers

Lecturer of Mathematics
B.S., 1986, M.Ed., 1997; Sul Ross State University

## Hong Young Chang

Assistant Professor of Chemistry
B.S, Daegu University; M.S., 1997, Yonsei University; Ph.D., 2009, University of Houston

Yen-Hsin Chen
Assistant Professor of Political Science and Public Administration
B.S., 2003, and M.S., 2006, National Chengchi University, Taiwan; Ph.D., 2017, University of North Texas

## Hugo da Costa Santos

Assistant Professor of Agriculture Business
B.S., 2014, Universidade de Sao Paulo, Ph.D., 2018, Colorado State University

Laura das Neves Patterson Rosa
Assistant Professor of Animal Science
Ph.D., 2020, University of Florida

## Kendra DeHart

Assistant Professor of History
B.A., 2007, Southwestern University; M.A., 2013, Texas State University

James W. Downing
Professor of Psychology
B.S., 1986, Indiana State University; M.A., 1989, Ph.D., 1991, University of Colorado at Boulder

Avram C. Dumitrescu
Associate Professor of Arts Gaming and Communication
B.A., 1999, University of Ulster at Belfast; M.A., 2004, University of Ulster at Belfast

Carol H. Fairlie
Professor of Art
B.F.A., 1990, Texas Woman's University; M.F.A., 1993, University of North Texas

## Ross Flemming

Professor of Theatre/Technical Director
B.A. 1996, Stephen F Austin; M.F.A. 2005, Texas Tech University

Karrin Ford
Associate Professor of Music
B.M., 1974, Nebraska Wesleyan University; M.M., 1878, Ph.D., 1991, University of Nebraska

Theron Francis
Assistant Professor of English
B.A., 1987, Northern Michigan University; M.A., 1994, Northern Arizona University; Ph.D., 2007, Purdue University
Eric T. Funasaki
Associate Professor of Mathematics
B.S., 1990, Harvey Mudd College; M.S., 1992, University of Washington; Ph.D., 1997, University of Tennessee, Knoxville
Carlos E. Gonzalez-Gonzalez
Assistant Professor of Habitat Research and Management
B.S., 2011 Texas A\&M University Kingsville; M.S., 2015 Sul Ross State University; Ph.D.,

Texas A\&M University
William C. Green
Professor of Marketing
B.S., 1973, M.B.A., 1975, California State University (Bakersfield); Ph.D., 1985, University of Houston Ismail Dincer Gunes
Assistant Professor of Homeland Security and Criminal Justice
B.A., 1996, Turkish National Police Academy; M.S.C.J., 2001, University of North Texas; Ph.D., 2008, University of North Texas

## Jennifer Haan

Assistant Professor of Education-Leadership
B.A., 1988, University of California; M.A., 2003, California State University, Ph.D., 2017, New Mexico State University

## Louis A. Harveson

Professor of Natural Resource Management and Director of Borderlands Research Institute for Natural Resource Management
B.S., 1991, Texas Tech University; M.S., 1995, Ph.D., 1997, Texas A\&M University - Kingsville

Rhonda Hayes
Instructor of Education
BA, 1978, M Ed-Counseling, 1987, M Ed-Mid Management, 1991, Angelo State University; ABD, PhD,
Texas Tech University
James Hector
Associate Professor of Kinesiology and Human Performance
B.S., 1978, University of Texas at Austin; M.Ed.

Christopher P. Herrera
Chair and Assistant Professor of the Department of Kinesiology and Human Performance
INDEX
B.S., 2002, Ohio State University; M.A., 2006, University of Houston-Clear Lake; Ph.D., 2010 University of Sydney

## Anne Marie Hilscher

Lecturer in Biology
B.S. 1995, Texas A\&M University; M.L.I.S, 2001, University of Texas at Austin; M.S., 2006, Sul Ross

State University
Kristofer D. Jorgenson
Professor of Mathematics
B.M., 1985, M.Ed., 1991, Southwest Texas State University-San Marcos; Ph.D., 1999, New Mexico State University
Jeffrey Keeling
Lecturer in Biology
B.S., 2010; M.S., 2014, Sul Ross State University

Jessica Kelsch
Instructor in Geology
B.S., 1996, University of Arizona; M.S., 2000, University of New Mexico

## Robert J. Kinucan

Professor of Natural Resource Management
B.S., 1981, University of Idaho; M.S., 1983, University of Wyoming; Ph.D., 1987, Texas A\&M University

Elba Lamar
Lecturer of Mathematics
Licentiate in Mathematics B.S., 2003, Universidad Autónoma de San Luis Potosí, México ; Applied
Science M.S., 2006,Universidad Autónoma de San Luis Potosí, México
Thornton Larson
Assistant Professor of Biology
B.S., 2011, Northland College; M.B.S., 2015, University of Texas at El Paso

Ryan Luna
Chair and Associate Professor of Natural Resource Management
B.S., 2001, Texas Tech University; M.S., 2008, University of Texas at San Antonio; Ph.D., 2013, Texas

State University
Cynthia McAlister
Lecturer for Academic Center for Excellence
B.S, 2004, M.S., 2012, Sul Ross State University

## Elizabeth A. Measures

Professor of Geology
B.S., 1982, M.S., 1984, Sul Ross State University; Ph.D., 1992, University of Idaho

Jeffrey Meyer
Director of Bands and Assistant Professor of Music
B.M., 2004, Eastman School of Music; M.M., 2006, Kent State University; D.M.A., 2010, Cleveland Institute of Music
Shanna Moody
Assistant Professor of Kinesiology
B.S., 2000, Texas State University; M.S., 2006, Texas Woman's University; Ed.D., 2019, Tarleton State University
Richard Mrozinski
Instructor of Natural Resource Management
B.S. 1995 University of Michigan, M.S. 1998, University of Michigan

Clark Nussbaum
Lecturer of Business Management
B.S, 1985, Oklahoma Christian University; MBA, 2012, Sul Ross State University

Francisco Pallares
Associate Professor of Economics
B.A., 2010; M.S., 2012, University of Texas at El Paso; DEC, 2015, New Mexico State University Laura R. Payne
INDEX

Dean of Graduate Studies, Dean of the Case College of Literature, Arts \& Social Sciences and Professor of English
B.A., 1993, M.A., 1995, Ph.D., 2001, Texas Tech University

Ian Peddie
Professor of English
B.A., 1992 University of Bradford; M.A., 1994, Illinois State University; M.A., 1998, University of Rochester; Ph.D., 2002 University of Rochester

## Mary Powers

Lecturer in Kinesiology
B.A., 2018, Eastern Washington University; B.S., 2020, Sul Ross State University

Galen Privitt
Professor of Education
B.S., 1977, Lubbock Christian University; M.Ed., 1992, University of Texas Pan American; Ed.D., 2006, University of Texas at Austin
Jeanne Qvarnstrom
Professor of Education and Assistant Vice President for Institutional Effectiveness
B.S., 1970, Iowa State University; M.A., 1975, California State University, Hayward; Ed.D., 1986,

University of the Pacific
Billy Jack Ray
Assistant Professor of Kinesiology and Human Performance
B.S., 2001, M.S, 2013, Ed.D., 2019 Tarleton State University

Demetris Reed, Jr.
Assistant Professor of Animal Science - Meat Science
B.S., 2011, Prairie View A\&M University; M.S., 2015, West Texas A\&M University; Ph.D., 2019, North Dakota State University
Christopher M. Ritzi
Chair of Biology, Geology and Physical Sciences and Professor of Biology
B.A., 1996, Texas A\&M University; M.S., 1999, Sul Ross State University; Ph.D., 2004, Indiana State

University
Diana Rodriguez
Assistant Professor of Education
B.A., 2001, M.A., 2004, Sul Ross State University; Ed.D., 2021, Northeastern University

Jawanna Sanderson
Assistant/Associate Professor of Accounting
B.BA., 2012, Sam Houston State University; M.S., 2013, Sam Houston State University

Rebecca A. Schlosser
Professor of Education
B.A., 1976, University of Denver; J.D., 1983, University of Houston; M.Ed., 2003; Ed.D., 2006, Sam

Houston State University

## Bret Scott

Associate Professor of Communication
B.F.A., 1993, University of Arizona; M.F.A., 2008, University of Southern California

Marjorie Scott
Chair of Visual and Performing Arts and Associate Professor of Communication and Theatre
B.A., 1998, Occidental College, M.F.A., 2008, University of Southern California

Thomas Shiller
Assistant Professor of Geology
B.S., 2009, Sul Ross State University; M.S. 2012, Ph.D. 2017 Texas Tech University

Glenn Short
Instructor of Education
B.A., 1991, M.Ed., 1996, Sul Ross State University

Lisa Sousa
Assistant Professor of Education - Education Diagnostician
BA, Communicative Disorders,1994, California State University, Northridge; MA, Special Education, 1996, INDEX

California State University, Northridge; Ph. D, 2013, Special Education, Texas Woman's University. Jon Staton
Lecturer in Kinesiology
B.S., Minnesota State Mankato; M.A., University of Minnesota

Kathy K. Stein
Director of the Academic Center for Excellence and Professor of English
B.S., 1990, M.A., 1993, Ed.D., 2006, University of Texas at El Paso

## Gregory Tegarden

Associate Professor of Studio Arts
B.S., 2004, Sul Ross State University; M.F.A., 2011, Texas A\&M University Corpus Christi

Tiffany Telesca
Assistant Professor of Education-Counseling
B.B.S., 1995, Hardin-Simmons University; M.Ed., 1998, Hardin-Simmons University

Mary-Elizabeth Thompson
Director of International Studies and Assistant Professor of Music
B.M., 2004, Furman University; M.M., 2006, Kent State University; D.M.A., 2011, University of Kansas

## Alicia Trotman

Assistant Professor of Psychology
B.A., 2004, Pace University; 2012, Ph.D., Michigan State University

Barbara Tucker
Dean, College of Education and Professional Studies and Professor of Education
B.S.W., 1993, Moorhead State University; M.Ed., 1997, Sul Ross State University; Ph.D., 2012, Capella University

## Kevin M. Urbanczyk

Professor of Geology
B.S., 1984, M.S., 1987, Sul Ross State University; Ph.D., 1994, Washington State University

Julie M. Vega
Lecturer of English
B.A., 1998, M.A., 2000, Sul Ross State University

Jessica Velasco
Assistant Professor of Political Science and Public Administration
B.A. 1998, M.S. 2001; Texas A\&M University College Station; D.P.A., 2020, Valdosta State University

Joseph G. Velasco
Associate Professor of Communication
B.A., 2001, University of New Mexico; M.A., 2005, Texas A\&M - Corpus Christi; Ph.D., 2011, University of Denver

## Dexter B. Wakefield

Associate Professor of Animal Science - Agricultural Education
B.S., 1986, Fort Valley State University; M.S., 1997, Purdue University; Ph.D., 2001, Purdue University; Post Doc Studies., 2011, Harvard University School of Education

## Bonnie J. Warnock

Dean of the College of Agriculture, Life and Physical Sciences and Professor of Natural Resource Management
B.S., 1995, M.S., 1997, Sul Ross State University; Ph.D., 2003, Texas A\&M University

## Melissa Wesney

Assistant Professor of Education
B.S., 2001, Bowling Green State University; M.Ed., 2011, Tiffin University; Ed.D., 2020, Northcentral University
Savannah Williamson
Assistant Professor of History
B.A., 2010, Stephen F. Austin, M.A., 2014. Ph.D., 2016 University of Houston

Naixue (Neal) Xiong
Associate Professor of Mathematics
B.E., Hubei University of Technology; M.E., 2004, Central China Normal University; Ph.D., 2007, Wuhan INDEX 217 IOC

University; Ph.D, 2008, Japan Advanced Institute of Science and Technology

## MIDDLE RIO GRANDE COLLEGE FACULTY

## Efrain Adames

Associate Professor of Business Administration
B.A., 1983, InterAmerican University; M.P.A., 1986, University of Texas at Austin

Daniel H. Foley III
Professor of Biology, Chair, Department of Natural \& Behavioral Sciences
B.S., 1991, M.S., 1994, Texas A\&M University; Ph.D., 2002, Utah State University

Samuel Garcia
Associate Professor of Education
B.A., 2004, M.Ed., 2008, Sul Ross State University; Ph.D., 2014, St. Mary's University

Maria G. Gear
Associate Professor of Education
B.S., 1987, University of Texas at Austin; M.Ed., 1998, Sul Ross State University;

Ed.D., 2011, University of Texas at San Antonio
Jorge A. Hernandez
Professor of History
B.A., 1989, MA, 1992, Ph.D., 1995, Texas Christian University

Méndez-Maqueo, Verónica
Professor of Spanish
B.A., 1988, Universidad Nacional Autónoma de México, Mexico; M.A., 1991, Universitat Autónoma de Barcelona, Spain; Ph.D., 2004, Universidad Nacional Autónoma de México, Mexico

## Thomas L. Matula

Associate Professor of Business Administration
Bachelor of General Studies, 1983, New Mexico Institute of Mining and Technology; M.B.A., 1986, New Mexico State University; Ph.D., 1994, New Mexico State University
Jennifer Miller-Ray
Assistant Professor of Education
B.S. 2000, M.S. 2008, Tarleton State University; Ph.D. 2016, University of North Dallas

Edison P. Moura
Professor of Business Administration, Chair, Department of Business Administration
B.S., 1978, M.B.A., 1980, Brigham Young University; D.B.A., 2007, Argosy University

Miriam Muñiz-Quiz
Professor of Education and Chair, Department of Education
B.S., 1983, University of Texas at Pan American University; M. Ed., 1995, Sul Ross State University; Ph.D., 2000, New Mexico State University
Patricia A. R. Nicosia
Associate Provost and Professor of Mathematics B.S.E., 1980, M.S.E., 1982, University of Central
Arkansas; Ph.D., 1990, University of Texas at Austin
Michael L. Ortiz
Associate Professor of Mathematics
B.S., 2002, University of North Texas; Ph.D., 2009 University of Texas at Austin

## Sarah Roche

Professor of English and Chair, Department of Humanities
BA, 1985, University of the South; MA, 1989, Middle Tennessee State University; Ph.D., 1998, Texas A
\& M University
Mark S. Saka
Chair of Behavioral and Social Sciences and Professor of History
B.S., 1986, M.A., 1990, Ph.D., 1995, University of Houston

## Jesse Salazar

Assistant Professor of Education
B.S., 2001, Texas State University, San Marcos; M.Ed., 2005, Sul Ross State University; Ed.D., 2015, Lamar University
INDEX

## Mary Jane Sauceda

Associate Professor of Business Administration - Accounting
B.B.A., 1981, M.B.A. 1989, University of Texas at Pan American at Brownsville; M.A.C.C.

1994, Texas A\&M University, Corpus Christi; Ph.D., 2001, Texas A\&M University, College
Station

## Gina L. Stocks

Professor of Education Teacher Certification Officer
B.A., 1995, M.Ed., 2005, Sul Ross State University; Ph.D., 2011, Texas A\&M University-Corpus Christi

Audrey I. Taylor
Assistant Professor of English
B.A., 2007, Colorado State University; M.A., 2010, Swansea University; Ph.D., 2015, Anglia Ruskin University

## Christopher Adrian Avalos Tresslar

B.B.A., 1991 St. Edward's University; M.Ed., 1997, University of Mary Hardin-Baylor; Ph.D., 2010, Texas

A\&M University College Station
Martin G. Urbina
Professor of Criminal Justice
B.S., 1995, Sul Ross State University; M.C.J., 1997, New Mexico State University; Ph.D., 2000, Western Michigan University
Wesley D. Wynne
Professor of Psychology
B.A., 1988, University of Texas at Austin; M.S., 1990, University of Michigan; Ph.D., 2003, University of Texas at Austin

## COURSE CATALOG

## This includes the course description only. Please refer to the catalog for additional course details as it pertains to your program.

## 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 precollegiate 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 collegelevel course through differentiated placement receive academic support.

```
ACCOUNTING (ACCA/ACCR)
AGRICULTURAL BUSINESS (AGB)
AGRICULTURAL EDUCATION (AGED)
ANIMAL SCIENCE (ANSC)
ANTHROPLOGY (ANTH)
ART (ART)
ART COMPUTER (ARTC)
ASTRONOMY (ASTR)
BIOLOGY (BIO/BIOL)
CHEMISTRY (CHEM)
COMMUNICATION (COMM)
COMPUTER INFORMATION SYSTEMS (CIS)

FRESHMAN LEADERSHIP PROGRAM (FLP) GENERAL BUSINESS ADMINISTRATION (GBAA/GBUR)
GENERAL STUDIES (GS)
GEOGRAPHY (GEOG/GGR)
GEOLOGY (GEOL)
HISTORY (HIST/HST)
INDUSTRIAL TECHNOLOGY (IT)
JOURNALISM (JOUR)
KINESIOLOGY (KINE)
LIBERAL ARTS (LA)
MANAGEMENT (MGTA/MGTR)
MANAGEMENT INFORMATION SYSTEMS
(MISR)
MARKETING (MKTA/MKTR)
MATHEMATICS (MATH/MTH)
MEXICAN AMERICAN STUDIES (MAS)
MUSIC (MUS)

NATURAL RESOURCE MANAGEMENT (NRM)
NURSING (NUR/NURS)
ORGANIZATIONAL LEADERSHIP (ORGL)
PHILOSOPHY (PHIL)
PHYSICAL SCIENCE (PHSC)
PHYSICS (PHYS)
POLITICAL SCIENCE (POLS/PS)
PSYCHOLOGY (PSCH/PSY)
SCIENCE EDUCATION (SCED/SCER)
SOCIOLOGY (SOC)
SPANISH (SPAN/SPN)
STATISTICS (STAT)
SUSTAINABLE RANCH MANAGEMENT (RCH)
THEATRE (THEA)
WOMEN'S STUDIES (WS)

\section*{ACCOUNTING (ACCA/ACCR) COURSES}

ACCA 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. Equivalent courses: ACC 2330 (through Summer 2014), ACC 2301 (through Summer 2022)
ACCA 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. Equivalent courses: ACC 2331 (through Summer 2014), ACC 2302 (through Summer 2022)
ACCA 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: ACC 2301, 2302. Equivalent course: ACCA 3312

ACCA 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. Equivalent courses: ACC 3330 (through Summer 2022), ACCR 3330
ACCA 3331 Intermediate Accounting II (3-0). Continuation of Intermediate Accounting I. Prerequisite: ACC 3330. Equivalent courses: ACC 3331 (through Summer 2022), ACCR 3331

ACCA 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 2301 and 2302. Equivalent courses: ACC 3332 (through Summer 2022), ACCT 3332 (through Summer 2022), ACCR 3332

ACCA 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 2301 \& 2302.

ACCA 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. Equivalent courses: ACC 3334 (through Summer 2022), ACCR 3334

ACCA 4330 Principles of Taxation (3-0). Principles of taxation with emphasis upon federal income tax as it applies to individuals. Prerequisite: ACC 2301 \& 2302. Equivalent courses: ACCT/ACC 4330 (through Summer 2022), ACCR 4330
ACCA 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 2301 and 2302. Equivalent courses: ACC 4334 (through Summer 2022), ACCR 4334

ACCA 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. Equivalent courses: ACCT 5307 (through Summer 2022), ACC 5307 (through Summer 2022), ACCR 5307

ACCA 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. Equivalent courses: ACCT 5310 (through Summer 2022), ACCR 5310

ACCR 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: ACC 2302 or ACC 2402. Equivalent courses: ACC 3332 (through Summer 2022), ACCA 3332
ACCR 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. Equivalent courses: ACC 3330 (through Summer 2022), ACCA 3330
ACCR 3331 Intermediate Accounting II (3-0). Continuation of Intermediate Accounting I. Prerequisite: ACC 3330. Equivalent courses: ACC 3331 (through Summer 2022), ACCA 3331

ACCR 3332 Cost Accounting (3-0). The study of cost accounting fundamentals, the purpose of cost accounting-primarily product costing and planning and control; various INDEX
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 2301 and 2302. Equivalent courses: ACC 3332 (through Summer 2022), ACCT 3332 (through Summer 2022), ACCA 3332

ACCR 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 2301 \& 2302. Equivalent courses: ACC 3333 (through Summer 2022), ACCA 3333

ACCR 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. Equivalent courses: ACC 3334 (through Summer 2022), ACCA 3334
ACCR 4330 Principles of Taxation (3-0). Principles of taxation with emphasis upon federal income tax as it applies to individuals. Prerequisite: ACC 2301 \& 2302. Equivalent courses: ACCT/ACC 4330 (through Summer 2022), ACCA 4330

ACCR 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 2301 and 232. Equivalent courses: ACC 4334 (through Summer 2022), ACCA 4334

ACCR 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. Equivalent courses: ACCT 5307 (through Summer 2022), ACC 5307 (through Summer 2022), ACCA 5307

ACCR 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. Equivalent courses: ACCT 5310 (through Summer 2022), ACCA 5310

\section*{AGRICULTURAL BUSINESS (AGB) COURSES}

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 3305 Ag Event Planning and Management (3-0). To plan, organize, manage,
and produce events.
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.

\section*{AGB 4303 Agri-Business Management (3-0). 酎 QEP MAPPED COURSE.}

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 profitcost volume relationships. This course will emphasize the use and applications of spread sheet programs. Prerequisite: ACC 2301.

\section*{AGRICUTLRUAL EDUCATION (AGED) COURSES}

AGED 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. Equivalent courses: ANSC 3304 (through Summer 2014), ANSC 2304 (through Summer 2022)
AGED 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. Equivalent courses: ANSC 2313 (through Summer 2022)

AGED 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. Equivalent courses: ANSC 3318 (through Summer 2022)
AGED 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 educations 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. Equivalent courses: ANSC 3319 (through Summer 2022)
AGED 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. Equivalent courses: ANSC 3320 (through Summer 2022)
AGED 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.
Equivalent courses: ANSC 3321 (through Summer 2022)

\section*{ANIMAL SCIENCE (ANSC) COURSES}

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. Equivalent courses: SRSU 1101, NRM 1101, IT 1101
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.

\begin{abstract}
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.
\end{abstract}

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 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 2318 Introduction to Farrier Work (3-0). A course designed to introduce students to equine footcare including: contemporary and evolving technologies in shoe and tool making.

\begin{abstract}
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.
\end{abstract}

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 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 3401 Corrective Horse Shoeing (3-2). An advanced course in Farrier Technology that will focus on correcting foot lameness in the horse through specialized shoeing.
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). 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.

\begin{abstract}
ANSC 3412 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. Equivalent courses: ANSC 2401 (through Summer 2022)
\end{abstract}

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.

\begin{abstract}
ANSC 3421 Basic Farrier Training (1-6). A basic course in the principles of horseshoeing including: common unsoundness, horse handling skills, hoof trimming, balancing, and cold shoeing technique. Necessary hand tools must be purchased by students. Prerequisite: ANSC 3313 or concurrent enrollment.
\end{abstract}

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 ab out 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.

\begin{abstract}
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 Toxinproducing E. coli, Listeria monocytogenes, Salmonella and Campytobacter) 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
\end{abstract}

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 INDEX
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.

\section*{ANSC 4306 Animal Heath and Diseases (3-0). \({ }^{\circ}\) 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.

\begin{abstract}
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.
\end{abstract}

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

\section*{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 4601 Experiences in Agricultural Enterprises (0-6). In-depth training in the management of various agriculture enterprises and/ or actual on-the-job supervised training through an internship. Students will be required to make an in-depth report after completion of project/internship. Offered all semesters. Prerequisite: Approval of ANSC chair.

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 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.

\begin{abstract}
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.
\end{abstract}

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 Advanced 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 Campytobacter) 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.
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 6301 Thesis Proposal (0-6). Satisfactory completion of this course will result in an acceptable prospectus presented to the Graduate Committee.

\begin{abstract}
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.
\end{abstract}

\section*{ANTHROPOLOGY (ANTH) COURSES}

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. Equivalent courses: SOC 1301 (through Summer 2020)

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 northcentral Mexico. The course will explore basic archeological theory, data collection, and analytical techniques used in the reconstruction of life ways of nomadic, semisedentary, 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.

\section*{ANTH 2311 Special Topics in Anthropology (3-0).}

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.

\begin{abstract}
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
\end{abstract}

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.

\section*{ART (ART) COURSES}

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. Equivalent courses: ART 3304 (through Summer 2011)
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. Equivalent courses: ART 3305 (through Summer 2011)
ART 1311 (ARTS 1311) Design I (2-4). An introduction to the fundamentals of twodimensional design. Equivalent courses: ART 1303 (through Summer 2014)
ART 1312 (ARTS 1312) Design II (2-4). Three-dimensional design and color theory. (May be taken before Design I). Equivalent courses: ART 1304 (through Summer 2014)
ART 1316 (ARTS 1316) Drawing I (2-4). An introduction to drawing fundamentals with stress upon observations and techniques involving various drawing media. Equivalent courses: ART 1302 (through Summer 2014)
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. Equivalent courses: ART 1306 (through Summer 2014)

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. Equivalent courses: ART 2301 (through Summer 2014)

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. Equivalent courses: ART 3311 (through summer 2014)

ART 2326 (ARTS 2326) Sculpture I (2-4). Exploratory studies in the principles, materials, and techniques of sculpture. Equivalent courses: ART 2309 (through Summer 2014)

ART 2346 (ARTS 2346) Ceramics I (2-4). An introduction to basic ceramic processes, including wheel throwing, hand building, glazing and firing. Equivalent courses: ART 2305 (through summer 2014)
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. Equivalent courses: ART 2306 (through summer 2014)

ART 2366 (ARTS) Watercolor I (2-4). Exploring transparent painting media (watercolor or tempera) with emphasis on methods and techniques. Equivalent courses: ART 2302 (through Summer 2014)
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 3323 18th and 19th Century Art (3-0). A survey of the art and architecture of the 18th and 19th centuries. This course may focus on a particular subject or topic of art of the 18th and 19th 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 Affair.

\section*{ART (ARTC) COMPUTER COURSES}

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-byframe 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.

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.
Equivalent courses: ASTR 1401 (through Summer 2014)
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. Equivalent courses: ASTR 1402 (through Summer 2014)

\section*{BIOLOGY (BIO/BIOL) COURSES}

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. Equivalent courses: BIOL 3302

BIO 3303 Sciences in Cinema and Television (3-0). A lecture course examining the scientific content of 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. Equivalent courses: BIOL 3303

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. Equivalent courses: BIOL 3306

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. Equivalent courses: BIOL 3307

BIO 3310 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. Equivalent courses: BIOL 3308 (through Summer 2022), BIO 3310

BIO 3311 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 INDEX
culture, to see the multicultural influence on the development of science over time. Equivalent courses: BIOL 3309 (through Summer 2022), BIOL 3311
BIO 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: \(\$ 8\).
Equivalent courses: BIOL 3403
BIO 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 filed trips. Prerequisite: BIOL 1307 - Biology for Majors II. Lab fee: \(\$ 8\). Equivalent courses: BIOL 3405
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. Equivalent courses: BIOL 3406

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. Equivalent courses: BIOL 3407
BIO 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. Equivalent courses: BIOL 3408

BIO 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: \(\$ 175\) - \(\$ 1800\). Equivalent courses: BIOL 3601
BIO 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. Equivalent courses: BIO 3602
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). Equivalent courses: BIOL 4101
BIO 4102 Individual Studies (1-0). Individual study of selected topics in biological literature or Field Biology. Prerequisite: BIOL 1306 - Biology for Majors I. Equivalent courses: BIOL 4102

BIO 4202 Individual Studies (2-0). Individual study of selected topics in biological literature or Field Biology. Prerequisite: BIOL 1306 - Biology for Majors I. Equivalent courses: BIO 4202

BIO 4300 Individual Studies (3-0). Independent study of selected topics in Biology. Prerequisite: BIOL 1306 - Biology for Majors I. Equivalent courses: BIOL 4300
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. Equivalent courses: BIOL 4301

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 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. Equivalent courses: BIOL 4307

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. Equivalent courses: BIOL 4403

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. Equivalent courses: BIOL 4404
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. Equivalent courses: BIOL 4409

BIO 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: \(\$ 8\). Equivalent courses: BIOL 4410
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. Equivalent courses: BIOL 4415
BIO 5100 Individual Studies (1-0). Independent study of selected topics in biology. Equivalent courses: BIOL 5100
BIO 5101 Graduate Seminar (1-0). Discussion of pertinent topics in biology, with emphasis changing depending upon instructor. Equivalent courses: BIOL 5101

BIO 5200 Individual Studies (2-0). Independent study of selected topics in biology. Equivalent courses: BIOL 5200
BIO 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. Equivalent courses: BIOL 5310
BIO 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. Equivalent courses: BIOL 5312

BIO 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. Equivalent courses: BIOL 5318

BIO 5320 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. Prerequisite: Bachelor of Science in Biology or permission of the instructor. Equivalent courses: BIOL 5301 (through summer 2022), BIOL 5320

BIO 5321 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. Equivalent courses: BIO 5301 (through Summer 2022), BIOL 5321

BIO 5322 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. Equivalent courses: BIOL 5303 (through Summer 2022), BIOL 5322

BIO 5323 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. Equivalent courses: BIO 5303 (through Summer 2022), BIO 5323

BIO 5324 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. Equivalent courses: BIOL 5305 (through summer 2022), BIOL 5324

BIO 5325 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. Equivalent courses: BIO

5305 (through Summer 2022), BIOL 5325
BIO 5326 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. Equivalent courses: BIOL 5307 (through Summer 2022), BIO 5313 (through summer 2022), BIOL 5326

BIO 5327 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. Equivalent courses: BIO 5309 (through summer 2022), BIOL 5327

BIO 5328 Evolution (3-0). The study of the theory and current concepts of evolution, including: natural selection, gene flow, founder effect, and speciation. Equivalent courses: BIOL 5328

BIO 5329 Readings in Ecology (3-0). In this course we will read and discuss a variety of papers and topics that helped to shape our current understanding of ecology. The goal for each week is to understand what the theory or idea is being presented at the time, to see how it affects ideas, policy, and beliefs in ecological systems. It is everyone's responsibility to read for each week, and to be prepared to discuss topics in detail. While no one person will be designated an official moderator each week, students must prepare to be able to provide detailed discussion about each topic, including the material assigned as well as providing outside material as well. Discussions are meant to be insightful and intelligent, while still allowing students to discuss issues and topics important to them individually as well. Equivalent courses: BIOL 5329

BIO 5407 Special Topics with Lab (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. Equivalent courses: BIOL 5407
BIO 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. Equivalent courses: BIOL 5601
BIO 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: \(\$ 175-\$ 1800\). Equivalent courses: BIO 5602

BIO 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. Equivalent courses: BIO 5607

BIOL 1106 (BIOL 1106) Biology for Majors I Laboratory (0-2). The first half of a twosemester 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, protisis, 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 o n - 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 twosemester 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 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, preoptometry, 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 prenursing, 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 prehealth professionals and Biology Majors. Prerequisites: Biology for Majors I (BIOL 1306/BIOL 1106) strongly preferred. Equivalent courses: BIOL 2401 (through Summer 2019), BIOL 2404

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/BIOL 2101) required. Equivalent courses: BIOL 2405 (through Summer 2014), BIOL 2402 (through Summer 2019)

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
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. Equivalent courses: BIOL 2406 (through Summer 2014), BIOL 2421 (through Summer 2014)

BIOL 2340 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. Prerequisites: BIOL 2301/2101Anatomy \& Physiology I and Lab I \& BIOL 2302/2102 - Anatomy \& Physiology II and Lab II. Equivalent courses: BIOL 1340 (through Summer 2022)
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. Equivalent courses: BIOL 2401 (through Summer 2019), BIOL 2301

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. Equivalent courses: BIOL 2401 (through summer 2014)

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. Equivalent courses: BIOL 2407 (through Summer 2014)
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. Equivalent courses: BIO 3302

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. Equivalent courses: BIO 3303
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. Equivalent courses: BIO 3306

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. Equivalent courses: BIO 3307
BIOL 3310 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. Equivalent courses: BIOL 3308 (through Summer 2022), BIOL 3310

BIOL 3311 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. Equivalent courses: BIOL 3309 (through Summer 2022), BIO 3311
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. Equivalent courses: BIO 3403

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: \(\$ 8\). Equivalent courses: BIO 3405

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 INDEX
censusing techniques. Prerequisite: BIOL 1306/1106 \& BIOL 1307/1107. Lab fee: \$8. Equivalent courses: BIOL 4406 (through Summer 2021), BIO 3406
BIOL 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. Equivalent courses: BIO 3407
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. Equivalent courses: BIO 3408

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. Equivalent courses: BIO 3601

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. Equivalent courses: BIO 3602

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). Equivalent courses: BIO 4101
BIOL 4102 Individual Studies (1-0). Individual study of selected topics in biological literature or Field Biology. Prerequisite: BIOL 1306 - Biology for Majors I. Equivalent courses: BIO 4102

BIOL 4202 Individual Studies (2-0). Individual study of selected topics in biological literature or Field Biology. Prerequisite: BIOL 1306 - Biology for Majors I. Equivalent courses: BIO 4202

BIOL 4300 Individual Studies (3-0). Independent study of selected topics in Biology. Prerequisite: BIOL 1306 - Biology for Majors I. Equivalent courses: BIO 4300

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. Equivalent courses: BIO 4301

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. Equivalent courses: BIO 4307

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. Equivalent courses: BIO 4402 (through Summer 2020)

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. Equivalent courses: BIO 4403

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. Equivalent courses: BIO 4404

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. Equivalent courses: BIO 4409
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. Equivalent courses: BIO 4410
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 filed. Laboratory studies will emphasize taxonomy and identification, as well as collection techniques. Prerequisites: BIOL 1306 Biology for Majors I

BIOL 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. Lab fee: \$8. Equivalent courses: BIO 4415

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 Southwestthe 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 4602 Arachnida of the Trans Pecos (6-0). This course will focus on classification, identification, ecology, evolution, physiology, conservation, and the economic importance of various Arachnid groups, including but not limited to spiders, scorpions, and vinegaroons, as well as centipedes and millipedes. Field Lab Fees -\$175-\$1800. Prerequisites: BIOL 1307

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. Equivalent courses: BIO 5100

BIOL 5101 Graduate Seminar (1-0). Discussion of pertinent topics in biology, with emphasis changing depending upon instructor. Equivalent courses: BIO 5101

BIOL 5200 Individual Studies (2-0). Independent study of selected topics in biology. Equivalent courses: BIO 5200

BIOL 5207 Biological Investigations (2-0). A course covering varied topics relevant to current biological studies. 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. Equivalent courses: BIO 5310

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. Equivalent courses: BIO 5312

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. Equivalent courses: BIO 5318

BIOL 5320 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. Prerequisite: Bachelor of Science in Biology or permission of the instructor. Equivalent courses: BIOL 5301 (through summer 2022), BIO 5320

BIOL 5321 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. Equivalent courses: BIO 5301 (through Summer 2022), BIO 5321

BIOL 5322 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. Equivalent courses: BIOL 5303 (through Summer 2022), BIO 5322

BIOL 5323 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. Equivalent courses: BIO 5303 (through Summer 2022), BIO 5323
BIOL 5324 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. Equivalent courses: BIOL 5305 (through summer 2022), BIO 5324
BIOL 5325 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. Equivalent courses: BIO 5305 (through Summer 2022), BIO 5325
BIOL 5326 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. Equivalent courses: BIOL 5307 (through Summer 2022), BIO 5313 (through summer 2022), BIO 5326

BIOL 5327 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. Equivalent courses: BIO 5309 (through summer 2022), BIO 5327

BIOL 5328 Evolution (3-0). The study of the theory and current concepts of evolution, including: natural selection, gene flow, founder effect, and speciation. Equivalent courses: BIO 5328

BIOL 5329 Readings in Ecology (3-0). In this course we will read and discuss a variety of papers and topics that helped to shape our current understanding of ecology. The goal for each week is to understand what the theory or idea is being presented at the time, to see how it affects ideas, policy, and beliefs in ecological systems. It is everyone's responsibility to read for each week, and to be prepared to discuss topics in detail. While no one person will be designated an official moderator each week, students must prepare to be able to provide detailed discussion about each topic, including the material assigned as well as providing outside material as well. Discussions are meant to be insightful and intelligent, while still allowing students to discuss issues and topics important to them individually as well. Equivalent courses: BIO 5329

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. Equivalent courses: BIO 5407

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. Equivalent courses: BIO 5601

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. Equivalent courses: BIO 5602

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. Equivalent courses: BIO 5607

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.

\section*{CHEMISTRY (CHEM) COURSES}

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. Prerequisites: CHEM 1312 \& 1112
CHEM 2423 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 2425 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

\section*{COMMUNICATION (COMM) COURSES}

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. Equivalent courses: COMM 1304 (through Summer 2014)
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. Equivalent courses: COMM 2303 (through Summer 2014)
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 joboriented 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

\section*{COMM 4300 Portfolio Capstone Course (3-0).}

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 massages 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). \({ }^{\text {Won }}\) 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 casemethod 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.

\section*{COMPUTER SCIENCE (CS) COURSES}

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.

\section*{COMPUTER INFORMATION SYSTEMS (CIS) COURSES}

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

\section*{COMPUTER SCIENCE ART TECHNOLOGY (CSAT) COURSES}

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 ( HCl ) 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, humancomputer 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

\section*{COMPUTER SCIENCE CYBERSECURITY (CSST) COURSES}

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

\section*{CRIMINAL JUSTICE (CJ/CRIM) COURSES}

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. Equivalent courses: SOC 1313 (through Summer 2020)
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. Equivalent courses: CRIM 3101

CJ 3201 Independent Study (2-0). Independent research of a selected topic in the Criminal Justice or Homeland Security field. Prerequisite: Permission of instructor. Equivalent courses: CRIM 3201

CJ 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. Equivalent courses: CRIM 3300
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. Equivalent courses: SOC 3302 (through Summer 2020), CRIM 3302
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. Equivalent courses: CRIM 3303
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 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. Equivalent courses: CRIM 3305
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. Equivalent courses: CRIM 3306
CJ 3307 Organized Crime (3-0). Analysis of crime problems of an organized nature; economic impact upon society; laws regulating organized crime; investigation techniques. Equivalent courses: CRIM 3307
CJ 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. Equivalent courses: CRIM 3308
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. Equivalent courses: CRIM 3311
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. Equivalent courses: CRIM 3312
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. Equivalent courses: SOC 3316 (through Summer 2020), CRIM 3316

CJ 3317 White Collar Crime (3-0). This course is deigned 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. Equivalent courses: CRIM 3317

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. Equivalent courses: CRIM 3320

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. Equivalent courses: CRIM 3321

CJ 3322 Cybercrime in the 21st 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. Equivalent courses: CJ 3322
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. Equivalent courses: CRIM 3340

CJ 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 terns 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) Equivalent courses: CRIM 3341

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. Equivalent courses: CRIM 3362

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 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.
Equivalent courses: CRIM 4300
CJ 4301 Multicultural Studies in Criminal Justice (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 for CJ)

CJ 4302 Constitutional Law (3-0). An analysis of the role of the U.S. Supreme Court and the appellant courts in protecting individual rights and civil liberties with a focus on litigation involving provisions of the Bill of Rights. Equivalent courses: CRIM 4302

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. Equivalent courses: CRIM 4303
CJ 4304 Criminology (3-0). Study of factors that contribute to crime; criminological theories; criminal typologies; crime trends; and criminal deviance. Equivalent courses: CRIM 4304, SOC 4304

CJ 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. Equivalent courses: CRIM 4305
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". Equivalent courses: CRIM 4306

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. Equivalent courses: CRIM 4307
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. Equivalent courses: CRIM 4308

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. Equivalent courses: CRIM 4309
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.
Equivalent courses: CRIM 4310
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. Equivalent courses: CRIM 4311

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. Equivalent courses: CRIM 4312

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. Equivalent courses: CRIM 4313
CJ 4314 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. Equivalent courses: CRIM 4314
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. Equivalent courses: CRIM 4315
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. Equivalent courses: CRIM 4318

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. Equivalent courses: CRIM 4319
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. Equivalent courses: CRIM 4320

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. Equivalent courses: CRIM 4321

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. Equivalent courses: CRIM 4322

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. Equivalent courses: CRIM 4323

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. Equivalent courses: CRIM 4324
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. Equivalent courses: CRIM 4330
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 of CJ 1302. (Required for HS). Equivalent courses: CRIM 4331
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. Equivalent courses: CRIM 4332
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. Equivalent courses: CRIM 4333

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. Equivalent courses: CRIM 4334

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. Equivalent courses: CRIM 4335

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 presentday 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. Equivalent courses: CRIM 4336

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. Equivalent courses: CRIM 4337

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. Equivalent courses: CRIM 4350
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. Equivalent courses: CRIM 4363

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. Equivalent courses: CRIM 4365
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. Equivalent courses: CRIM 4367

CJ 4368 Multicultural Studies in Criminal Justice (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 for CJ) Equivalent courses: CRIM 4368

CJ 4369 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. Equivalent courses: CJ 4302 (through Summer 2022), CRIM 4369

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). Equivalent courses: CRIM 5323 (through Summer 2022)
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.
INDEX

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. Equivalent courses: CRIM 5331 (through Summer 2022)
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 INDEX

CJ and HS Masters). Equivalent courses: CRIM 5334 (through Summer 2022)
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 statues 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 3101 Independent Study (1-0). Independent research of a selected topic in the Criminal Justice or Homeland Security field. Prerequisite: Permission of instructor. Equivalent courses: CJ 3101

CRIM 3201 Independent Study (2-0). Independent research of a selected topic in the Criminal Justice or Homeland Security field. Prerequisite: Permission of instructor. Equivalent courses: CJ 3201

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. Equivalent courses: CJ 3300

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, selfhelp and prevention of victimization, victimization surveys and other data sources; history of victims' rights and the victims' rights movement and victim services. Equivalent courses: SOC 3302 (through Summer 2020), CJ 3302

CRIM 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. Equivalent courses: CJ 3303

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. Equivalent courses: CJ 3305

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. Equivalent courses: CJ 3306

CRIM 3307 Organized Crime (3-0). Analysis of crime problems of an organized nature; economic impact upon society; laws regulating organized crime; investigation techniques. Equivalent courses: CRIM 3307
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. Equivalent courses: CJ 3308

CRIM 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. Equivalent courses: CJ 3311

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. Equivalent courses: CJ 3312

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.
Equivalent courses: SOC 3316 (through Summer 2020), CJ 3316
CRIM 3317 White Collar Crime (3-0). This course is deigned 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. Equivalent courses: CJ 3317
CRIM 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. Equivalent courses: CJ 3320
CRIM 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. Equivalent courses: CJ 3321
CRIM 3322 Cybercrime in the 21st 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. Equivalent courses: CJ 3322
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. Equivalent courses: CJ 3340
CRIM 3341 Research Methods for Criminal Justice (3-0). This course provides an introduction to criminal justice research methods. Students will learn how to evaluate current research 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 of their contribution to the fields of criminal justice, as well as how to develop their own research problems. (Required for CJ and HS). Equivalent courses: CJ 3341
CRIM 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. Equivalent courses: CJ 3362
CRIM 3367 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. Equivalent courses: CJ 3367
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.
Equivalent courses: CJ 4300
CRIM 4302 Constitutional Law (3-0). An analysis of the role of the U.S. Supreme

Court and the appellant courts in protecting individual rights and civil liberties with a focus on litigation involving provisions of the Bill of Rights. Equivalent courses: CJ 4302
CRIM 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. Equivalent courses: CJ 4303
CRIM 4304 Criminology (3-0). Study of factors that contribute to crime; criminological theories; criminal typologies; crime trends; and criminal deviance. Equivalent courses: CJ 4304, SOC 4304

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 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". Equivalent courses: CJ 4306

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. Equivalent courses: CJ 4307

CRIM 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. Equivalent courses: CJ 4305
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. Equivalent courses: CJ 4309

CRIM 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.
Equivalent courses: CJ 4310
CRIM 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. Equivalent courses: CJ 4311

CRIM 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. Equivalent courses: CJ 4312

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.
Equivalent courses: CJ 4313
CRIM 4314 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. Equivalent courses: CJ 4313

CRIM 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. Equivalent courses: CJ 4315
CRIM 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. Equivalent courses: CJ 4318
CRIM 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. Equivalent courses: CJ 4319
CRIM 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. Equivalent courses: CJ 4320

CRIM 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. Equivalent courses: CJ 4321
CRIM 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. Equivalent courses: CJ 4322

CRIM 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. Equivalent courses: CJ 4323
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. Equivalent courses: CJ 4324
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 places on issues related to human resource administration and the leadership skills required to successfully manage a law enforcement agency. Equivalent courses: CJ 4330

CRIM 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 of CJ 1302. (Required for HS). Equivalent courses: CJ 4331

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. Equivalent courses: CJ 4332
CRIM 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. Equivalent courses: CJ 4333
CRIM 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. Equivalent courses: CJ 4334
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. Equivalent courses: CJ 4335
CRIM 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. Equivalent courses: CJ 4336

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. Equivalent courses: CJ 4337

CRIM 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. Equivalent courses: CJ 4350

CRIM 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. Equivalent courses: CJ 4363

CRIM 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. Equivalent courses: CJ 4365

CRIM 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. Equivalent courses: CJ 4367

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. (Required for CJ) Equivalent courses: CJ 4368

CRIM 4369 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. Equivalent courses: CJ 4302 (through Summer 2022), CJ 4369

\section*{ECONOMICS (ECOA/ECOR) COURSES}

ECOA 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. Equivalent courses: ECO 2305 (through Summer 2014), ECO 2301 (through Summer 2022)

ECOA 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. Equivalent courses: ECO 2300 (through Summer 2014), ECO 2302 (through summer 2022)

ECOA 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. Equivalent courses: ECO 3300 (through Summer 2022), ECOR 3300

ECOA 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. Equivalent courses: ECON 3301 (through Summer 2022), ECOR 3301

ECOA 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: ECO 2301. Equivalent courses: ECON 4304 (through Summer 2022), ECOR 4304

ECOA 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. May be repeated once for credit with departmental approval. Prerequisites: ECO 2301. Equivalent courses: ECON 4305 (through Summer 2022), ECO 4305 (through Summer 2022), ECOR 4305

ECOA 5301 History of Economic Thought (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. Equivalent courses: ECON/ECO 5301 (through Summer 2022), ECOR 5301

ECOA 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. Equivalent courses: ECON 5302 (through Summer 2022), ECOR 5302
ECOA 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. Equivalent courses: ECON 5303 (through Summer 2022), ECO 5303 (through Summer 2022), ECOR 5303
ECOA 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. Equivalent courses: ECO 5304 (through Summer 2022), ECOR 5304

ECOA 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. Equivalent courses: ECO 5305 (through Summer 2022), ECOR 5304
ECOR 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. Equivalent courses: ECO 3300 (through Summer 2022), ECOA 3300

ECOR 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. Equivalent courses: ECON 3301 (through Summer 2022), ECOA 3301

ECOR 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: ECO 2301. Equivalent courses: ECON 4304 (through Summer 2022), ECOA 4304
ECOR 4305 Advanced Readings and Research in Economics (3-0). Selected topics in economics and/or finance to be offered as a seminar in individual study. May be repeated once for credit with departmental approval. Prerequisites: ECO 2301. Equivalent courses: ECON 4305 (through Summer 2022), ECO 4305 (through Summer 2022), ECOA 4305

ECOR 5301 History of Economic Thought (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. Equivalent courses: ECON/ECO 5301 (through Summer 2022), ECOA 5301

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.
ECOR 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. Equivalent courses: ECON 5303 (through Summer 2022), ECO 5303 (through Summer 2022), ECOA 5303

ECOR 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. Equivalent courses: ECO 5304 (through Summer 2022), ECOA 5304
ECOR 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. Equivalent courses: ECO 5305 (through Summer 2022), ECOA 5304

EDSR 3300 Pedagogy and Professional Responsibilities (3-0). A course providing an overview of key aspects of the American Educational System including: Curriculum models and assessment, educator standards, the Texas Administrative Code, legal case studies, and the Educator Code of Ethics. Participants will review local, state, and national policies as they impact PK-12 education. Prerequisite: Completion of Blocks I and II, ED/EDUA 3302 \& 4314 \& 3303 \& 4322 . Equivalent courses: EDUC 3300 (through Summer 2022), EDUA 3300

EDSR 3301 Planning, Instruction, and Assessment (3-0). A course designed for the classroom teacher focusing on key aspects of data driven planning, instruction, and assessment in the classroom. The role of standards based from the Texas Essential Knowledge and Skills (TEKS) will be applied incorporating various forms of inquiry and direct instruction. Prerequisite: Completion of Blocks I and II. Equivalent courses: ED 3301 (through Summer 2022), EDUA 3301

EDSR 3302 Developmental \& 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 per TAC §228.35(b)(1). Prerequisite: Admitted to Block I. Equivalent courses: ED 3302 (through Summer 2022), EDUA 3302

EDSR 3303 Methods and Materials for the Classroom Teacher (3-0). An in-depth study of assessment and analysis of student learning focusing on assessment systems, systems used to identify students for learning support, data analysis, and the analysis and response to the data analysis. Classroom and behavioral management will be presented with an emphasis on implementation of developmentally appropriate practices in the educational setting. Includes 10 hours of field experience per TAC §228.35(b)(1). Prerequisite: Completion of Block I, ED/EDUA 3302 \& 4314. Equivalent courses: ED/EDUC 3303 (through Summer 2022), EDUA 3303
EDSR 3304 Human 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. Equivalent courses: ED/EDUC 3304 (through Summer 2022), EDUA 3304

\section*{EDSR 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. Equivalent courses: EDUC 3305 (through Summer 2022), EDUA 3305

EDSR 3307 Technology in the Instructional Setting (3-0). This course prepares teachers to plan, organize, deliver, and evaluate instruction that incorporates the effective use of current technology. Equivalent courses: ED 3307 (through Summer 2022), EDUA 3307

EDSR 3308 Language Acquisition and Emergent Literacy (3-0). 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 prescribed for Early Childhood-6th grade as identified by the State of Texas. Equivalent courses: ED/EDUC 3308 (through Summer 2022), EDUA 3308

\section*{EDSR 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. Equivalent courses: ED/EDUC 3309 (through Summer 2022), EDUA 3309
EDSR 3310 EC-6 Early Childhood Curriculum (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. Equivalent courses: EDUC 3310 (through Summer 2022), EDUA 3310
EDSR 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. Equivalent courses: ED/EDUC 3312 (through Summer 2022), EDUA 3312

EDSR 3314 Language Arts \& Social Studies Methods (3-0). 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-6th grade as identified by the State of Texas. Equivalent courses: ED 3314 (through Summer 2022), EDUA 3314
EDSR 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. Note: EDUA 3328 is required for those seeking Bilingual
Certification. Equivalent courses: ED/EDUC 3328 (through Summer 2022), EDUA 3328
EDSR 3329 Methodology of Second Language Teaching (3-0). 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-6th grade as identified by the State of Texas. Equivalent courses: ED/EDUC 3329 (through Summer 2022), EDUA 3329
EDSR 4199 Special Topics (1-0). A course covering various topics in the field of education. May be repeated for credit when topic varies. Prerequisite: Approval of advisor. Equivalent courses: ED 4199 (through Summer 2022), EDUA 4199

EDSR 4300 Internship in Teaching (3-0). A course serving as a capstone experience for teacher candidates enrolled in the teacher education program. Designed for certification candidates completing their clinical experience over two semesters at 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. Equivalent courses: EDUC 4300 (through Summer 2022), EDUA 4300
EDSR 4301 Internship in Teaching II (3-0). A course serving as a capstone experience for teacher candidates enrolled in the teacher education program. Designed for certification candidates completing their clinical experience over two semesters at an accredited school, jointly supervised by the University and school personnel. Must meet requirements for eligibility to student teach. Offered during spring term only. Equivalent courses: EDUC 4301 (through Summer 2022), EDUA 4301
EDSR 4306 Survey of Exceptional Children (3-0). A survey of exceptional children involving categorical identification, learning characteristics, instructional intervention, and adjustment needs. Equivalent courses: ED 4306 (through Summer 2022), EDUA 4306

EDSR 4307 Teaching Language Arts in the Classroom (3-0). \({ }^{-1}\) 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. Equivalent courses: ED/EDUC 4307 (through Summer 2022), EDUA 4307
EDSR 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 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. This course serves as a foundation to the reading component and is encouraged to be taken as the first course of the reading component. Equivalent courses: ED/EDUC 4308 (through Summer 2022), EDUA 4308

EDSR 4310 Social Studies in the Classroom I (3-0). This is the first 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. Equivalent courses: ED 4310 (through Summer 2022), EDUA 4310

EDSR 4311 Social Studies in the Classroom II (3-0). This is the second 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. Prerequisite: EDUA/EDSR 4310. Equivalent courses: EDUA 4311

EDSR 4312 Methods and Classroom Management in Secondary School (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. Equivalent courses: EDUC 4312 (through Summer 2022), EDUA 4312
EDSR 4313 Reading Comprehension and Enrichment (3-0). 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 students 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. Includes field experience. Prerequisites: ED/EDUA/EDUC/EDSR 3308 \& 4308 . Equivalent courses: EDUC 4313 (through Summer 2022), EDUA 4313
EDSR 4314 Reading Skills for Content Subjects (3-0). 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. Equivalent courses: ED/EDUC 4314 (through Summer 2022), EDUA 4314
EDSR 4315 Reading Diagnosis \& Remediation (3-0). Assessment, diagnostic, and remediation techniques to use in the classroom to determine how to best assist students with reading and identify reading problems. Equivalent courses: ED/EDUC 4315 (through Summer 2022), EDUA 4315
EDSR 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. Equivalent courses: EDUC 4320 (through Summer 2022), EDUA 4320

EDSR 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: Completion of Blocks I; ED/EDUA/EDUC/EDSR 3302 \& 4314. Equivalent courses: ED 4322 (through Summer 2022), EDUA 4322

EDSR 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. Equivalent courses: EDUC 4327 (through Summer 2022), EDUA 4327
EDSR 4328 Teaching Language Arts: 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. Equivalent courses: ED/EDUC 4328 (through Summer 2022), EDUA 4328
EDSR 4329 Bilingual Planning \& Instruction (3-0). This course is an intensive Spanish language introduction to the planning an instruction of a bilingual classroom, in preparation for the Bilingual certification exam. Required for those seeking Bilingual Certification. Prerequisite: EDUA 3328. Equivalent courses: ED/EDUC 4329 (through Summer 2022), EDUA 4329
EDSR 4399 Special Topics (3-0). A course covering various topics in the field of education. May be repeated for credit when topic varies. Prerequisite: Approval of advisor. Equivalent courses: ED 4399 (through Summer 2022), EDUA 4399

EDSR 4601 Student Teaching Elementary (Block III) (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: \$200. Equivalent courses: ED/EDUC 4601 (through Summer 2022), EDUA 4601
EDSR 4602 Student Teaching Middle School (Block III) (3-0). 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: \$200. Equivalent courses: ED 4602 (through Summer 2022), EDUA 4602
EDSR 4605 Student Teaching 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: \$200. Equivalent courses: ED/EDUC 4605 (through Summer 2022), EDUA 4605

EDSR 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 INDEX
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: \$301. Equivalent courses: ED 5300 (through Summer 2022), EDUA 5300

EDSR 5301 Internship 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 first semester of the Internship. Prerequisite: Must be accepted in the Post-Baccalaureate Initial Certification Program.
Internship/Practicum fee: \(\$ 300\). Equivalent courses: ED 5301 (through Summer 2022), EDUA 5301.
EDSR 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. Equivalent courses: ED/EDUC 5302 (through Summer 2022), EDUA 5302

EDSR 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. Equivalent courses: ED 5305 (through Summer 2022), EDUA 5305
EDSR 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/EDUA/EDSR 5323. Equivalent courses: ED 5306 (through Summer 2022), EDUA 5306

EDSR 5307 Graduate Research (3-0). 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. Equivalent courses: ED/EDUC 5307 (through Summer 2022), EDUA 5307
EDSR 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. Equivalent courses: ED/EDUC 5308 (through Summer 2022), EDUA 5308
EDSR 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. Equivalent courses: ED/EDUC 5309 (through Summer 2022), EDUA 5309

EDSR 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. Equivalent courses: ED 5310 (through Summer 2022), EDUA 5310

EDSR 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. Equivalent courses: ED 5311 (through Summer 2022), EDUA 5311

EDSR 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. Equivalent courses: ED 5312 (through Summer 2022), EDUA 5312
EDSR 5313 Career Development, Life Planning, and Counseling (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 with diverse and multicultural populations in school and community settings. Prerequisite: ED 7302. Equivalent courses: ED/EDUC 5313 (through Summer 2022), EDUA 5313

EDSR 5314 Personality and Counseling Theory (3-0). A study of human personality dynamics as related to counseling theory and practice, emphasis on traditional, contemporary, modern humanistic and phenomenological theories as they apply to counseling and developmental guidance in a pluralistic society. Must be taken within the first 12 hours. Equivalent courses: ED/EDUC 5314 (through Summer 2022), EDUA 5314

EDSR 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. Equivalent courses: ED/EDUC 5315 (through Summer 2022), EDUA 5315

EDSR 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. Equivalent courses: ED/EDUC 5316 (through Summer 2022), EDUA 5316

EDSR 5317 History, Philosophy, \& Trends of 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. Equivalent courses: ED 5317 (through Summer INDEX
2022), EDUA 5317

EDSR 5318 Administration of Personnel Services (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. Equivalent courses: EDUA 5318

EDSR 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. Equivalent courses: ED 5319 (through Summer 2022), EDUC 5319 (through Summer 2022), EDUA 5319

EDSR 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. Equivalent courses: EDUA 5320

EDSR 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. Equivalent courses: ED 5321 (through Summer 2022), EDUA 5321

EDSR 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. Equivalent courses: ED 5322 (through Summer 2022), EDUA 5322
EDSR 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.
Equivalent courses: ED 5323 (through Summer 2022), EDUA 5323
EDSR 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. Equivalent courses: ED 5324 (through Summer 2022), EDSR 5324
EDSR 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. Equivalent courses: ED/EDUC 5325 (through Summer 2022), EDUA 5325
EDSR 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. Equivalent courses: ED/EDUC 5327 (through Summer 2022), EDUA 5327

EDSR 5330 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 elementary, middle school, and secondary classrooms 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. Equivalent courses: EDUC 5330 (through Summer 2022), ED 6318 (through Summer 2022), EDUA 5330

EDSR 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. Equivalent courses: ED/EDUC 5332 (through Summer 2022), EDUA 5332

EDSR 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 statisticallysound data-driven educational research project on an identified need of their school campus related to student achievement. Equivalent courses: ED/EDUC 5333 (through Summer 2022), EDUA 5333

EDSR 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. Equivalent courses: EDUC 5338 (through Summer 2022), EDSR 5338
EDSR 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. Equivalent courses: ED 5360 (through Summer 2022), EDUA 5360

EDSR 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. Equivalent courses: ED 5361 (through Summer 2022), EDUA 5361

EDSR 5627 Clinical Teaching in the Post Baccalaureate Program (3-0). 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) INDEX
under the supervision of an experienced cooperating teacher and university supervisor. Internship/Practicum fee: \$300. Equivalent courses: ED 5627 (through Summer 2022), EDUA 5627

EDSR 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. Equivalent courses: ED/EDUC 6304 (through Summer 2022), EDUA 6304

EDSR 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. Equivalent courses: ED 6312 (through Summer 2021), ED 6305 (through Summer 2022), EDUC 6305 (through Summer 2022), EDUA 6305

EDSR 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. Equivalent courses: EDUC 6307 (through Summer 2022), EDUA 6307

EDSR 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. Equivalent courses: ED/EDUC 6308 (through Summer 2022), EDUA 6308

\section*{EDSR 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. Equivalent courses: EDUC 6309 (through Summer 2022), EDUA 6309

EDSR 6311 Emergent Literacy \& 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 and 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 young children. Equivalent courses: ED/EDUC 6311 (through Summer 2022), EDUA 6311

EDSR 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. Equivalent courses: ED/EDUC 6313 (through Summer 2022), EDUA 6313
EDSR 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. Equivalent courses: ED/EDUC 6314 (through Summer 2022), EDUA 6314

EDSR 6316 Seminar in Counseling (3-0). Issues and topics in counseling; may be repeated twice if course content varies. Equivalent courses: ED/EDUC 6316 (through Summer 2022), EDUA 6316
EDSR 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. 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. Equivalent courses: ED/EDUC 6317 (through Summer 2022), EDUA 6317

EDSR 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. Equivalent courses: EDUC 6318 (through Summer 2022), EDUA 6318
EDSR 6319 Psychopathology and Psychopharmacology (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/EDSR 5314, EDUC/EDSR 6322 and have permission of the instructor. Equivalent courses: EDUC 6319 (through Summer 2022)
EDSR 6320 Substance Use, Abuse and Addiction (3-0). This course will examine the use, abuse and addiction of drugs and alcohol in a postmodern multicultural and diverse society. Emphasis will be placed on the physiological, psychological, and sociological aspects of abuse/addiction, their impact on the individual, family, and community, and evidence-based treatment approaches. Equivalent courses: EDUC 6320 (through Summer 2022)
EDSR 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/EDSR 5314 and have Instructor Approval. Equivalent courses: EDUC 6321 (through Summer 2022)

EDSR 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. Equivalent courses: EDUC 6322 (through Summer 2022)

EDSR 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. Equivalent courses: EDUC 6323 (through Summer 2022)
EDSR 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 EDSR 7101. Equivalent courses: ED 6320 (through Summer 2021), ED/EDUC 6324 (through Summer 2022), EDUA 6324
EDSR 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/EDSR 6323 and/or instructor approval. Equivalent courses: EDUC 6326 (through Summer 2022)
EDSR 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. Equivalent courses: EDUC 6327 (through Summer 2022)

\section*{EDSR 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. Equivalent courses: EDUC 6328 (through Summer 2022)
EDSR 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. Equivalent courses: EDUC 6329 (through Summer 2022)
EDSR 6330 Play Therapy (3-0). This course will develop knowledge and skills to INDEX
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. Equivalent courses: EDUC 6330 (through Summer 2022)
EDSR 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. Equivalent courses: EDUC 6331 (through Summer 2022)

EDSR 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. Equivalent courses: EDUC 6332 (through Summer 2022)

EDSR 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 decisionmaking models will be examined, and professional issues distinctive to the specific practice settings of counseling will be presented. Equivalent courses: ED 6346 (through Summer 2022), EDUC 6333 (through Summer 2022), EDUA 6333

EDSR 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. Equivalent courses: EDUC 6340 (through Summer 2022)

EDSR 6341 Advanced Psychopathology and Psychopharmacology (3-0). This course will prove an overview of pharmacological medications and the abnormal behaviors for which they may be prescribed. The goals of this course are to introduce basic terminology and models of pharmacokinetics as they relate to clinical mental health counseling as well as to examine diagnostic criteria in light of the Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: Advisor Approval. Equivalent courses: EDUA 6341

EDSR 6342 Counseling for Crisis, Trauma \& Disaster (3-0). This course prepares counselors to respond effectively in critical situations of crises, trauma, and disaster. Students learn crisis assessment, diagnoses, post-traumatic patterns, intervention skills, management, and cultural, ethical, and legal considerations for working with diverse and multicultural populations in community and governmental agencies, schools, hospitals and private practice. Equivalent courses: EDUC 6342 (through Summer INDEX

EDSR 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. Equivalent courses: ED 6343 (through Summer 2022), EDUA 6343
EDSR 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. Equivalent courses: EDUC 6344 (through Summer 2022), EDUA 6344

EDSR 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. Equivalent courses: ED 6345 (through Summer 2022), EDUA 6345
EDSR 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. Equivalent courses: ED 6346 (through Summer 2022), EDUA 6346

EDSR 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 though experiential activities, case studies, and video presentations. Prerequisite: Advisor Approval. Equivalent courses: ED 6347 (through Summer 2022), EDUA 6347
EDSR 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. Prerequisites: Student must have earned a grade of B or higher in EDUC 5314 and have permission of the instructor. Equivalent courses: EDUC 6350 (through Summer 2022)
EDSR 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.
EDSR 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 EDUA 7102. Equivalent courses: ED 6315 (through Summer 2021), ED/EDUC 6355 (through INDEX

Summer 2022), EDUA 6355
EDSR 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. Equivalent courses: EDUC 6360 (through Summer 2022)

EDSR 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. Equivalent courses: EDUC 6362 (through Summer 2022)
EDSR 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 selfawareness. Equivalent courses: EDUC 6364 (through Summer 2022).
EDSR 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. Equivalent courses: EDUC 6366 (through Summer 2022)
EDSR 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. Equivalent courses: ED 6371 (through Summer 2022), EDUA 6371
EDSR 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. Equivalent courses: ED 6375 (through Summer 2022), EDUA 6375
EDSR 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. Equivalent courses: ED 6376 (through Summer 2022), EDUA 6376

EDSR 6377 Instructional Design (3-0). This course will provide students with insight into the theories and process that guide effective instructional design. A systemsapproach to designing instruction will be examined, along with methods to evaluate INDEX
instructional methods. Equivalent courses: ED 6377 (through Summer 2022), EDUA 6377

EDSR 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. Equivalent courses: EDUA 6378

EDSR 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. Equivalent courses: ED 6379 (through Summer 2022), EDUA 6379

EDSR 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. Equivalent courses: ED 6380 (through Summer 2022), EDUA 6380

EDSR 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. Equivalent courses: ED 6381 (through Summer 2022), EDUA 6381

EDSR 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. Equivalent courses: ED 6382 (through Summer 2022), EDUA 6382

EDSR 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. Equivalent courses: ED 6383 (through Summer 2022), EDUA 6383

EDSR 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. Equivalent courses: ED 7309 (through Summer 2021), ED/EDUC 6389 (through Summer 2022), EDUA 6389

EDSR 7100 Practicum I for Certification (0-1). 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 INDEX
themselves conducting one of this committee's meetings. This course must be taken with EDUA 7304. Prerequisites: EDUA/EDSR 5330 and EDUA/EDSR 5332. Internship/Practicum fee: \(\$ 300\). Equivalent courses: ED/EDUC 7100 (through Summer 2022), EDUA 7100

EDSR 7101 Practicum II for Certification (0-1). 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 EDUA 6320. Prerequisites: EDUA/EDSR 5330 \& 5332 \& 5333 \& 7304 \& 6305. Internship/Practicum fee: \(\$ 300\). Equivalent courses: ED/EDUC 7101 (through Summer 2022), EDUA 7101
EDSR 7102 Practicum III for Certification (0-1). 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 EDUA 6315.
Prerequisites: EDSR/EDUA 5330 \& 5332 \& 5333 \& 7304 \& 6305. Internship/Practicum fee: \$300. Equivalent courses: ED/EDUC 7102 (through Summer 2022), EDUA 7102
EDSR 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/EDUA/EDSR 5320 \& ED 6307. Equivalent courses: ED 7300 (through Summer 2022), EDUA 7300

EDSR 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 entrylevel 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. Equivalent courses: ED 7301 (through Summer 2022), EDUA 7301
EDSR 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. Equivalent courses: ED/EDUC 7302 (through Summer 2022), EDUA 7302
EDSR 7303 Applied Counseling Approaches and Methodology (3-0). The initial course in the sequence of counseling practice courses which applies knowledge of INDEX
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. Equivalent courses: ED 7303 (through Summer 2022), EDUA 7303

EDSR 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 EDUA 5333. If student is seeking certification this course must be taken with EDSRA 7100. Equivalent courses: ED/EDUC 7304 (through Summer 2022), EDUA 7304
EDSR 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. Equivalent courses: ED/EDUC 7305 (through Summer 2022), EDUA 7305

EDSR 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. Equivalent courses: ED/EDUC 7306 (through Summer 2022), EDUA 7306

EDSR 7307 Advanced Seminar in Administration (3-0). A course designed especially for preparing administrators for the superintendency; emphasis on decisionmaking modes and leadership change strategies. Equivalent courses: ED/EDUC 7307 (through Summer 2022), EDUA 7307
EDSR 7309 State and Federal Programs in the Public Schools (3-0). A study of federal and state programs currently being used in public schools.

EDSR 7311 Superintendent Practicum (3-0). 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: \(\$ 300\). Equivalent courses: ED/EDUC 7311 (through Summer 2022), EDUA 7311
EDSR 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. Prerequisites: EDUA/EDUC/EDSR 5308 \& 6313 \& 6314. Equivalent courses: ED/EDUC 7312 (through Summer 2022), EDUA 7312

EDSR 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. Equivalent courses: ED/EDUC 7313 (through Summer 2022), EDUA 7313
EDSR 7315 Group Processes in 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.. Equivalent courses: ED/EDUC 7315 (through Summer 2022), EDUA 7315

EDSR 7316 Practicum in Counseling (3-0). A course that provides reality field experiences in 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: \(\$ 300\). Equivalent courses: ED/EDUC 7316 (through Summer 2022), EDUA 7316
EDSR 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 client contact. Internship will take a minimum of 2 long semesters to complete. Prerequisite: Completion of EDSR 7316, completion of a minimum of 51 semester hours of counseling course work and approval of advisor. Practicum fee: \(\$ 300\). Equivalent courses: EDUC/ED 7317 (through Summer 2022), EDUA 7317

EDSR 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: \(\$ 300\). Equivalent courses: ED 7318 (through Summer 2022), EDUA 7318
EDSR 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. Equivalent courses: ED 7320 (through Summer 2022), INDEX

EDUA 7320
EDSR 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. Equivalent courses: ED 7421 (through Summer 2014), ED 7321 (through Summer 2022), EDUA 7321

EDSR 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. Equivalent courses: ED 7323 (through Summer 2022), EDUA 7323
EDSR 7408 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. Prerequisite: Full admission to the Superintendent Certification Program. Equivalent courses: ED 7408 (through Summer 2022), EDUA 7408

EDSR 7422 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. Equivalent courses: ED 7422 (through Summer 2022), EDUA 7422

EDUA 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. Equivalent courses: ED 2303

EDUA 3300 Pedagogy \& Professional Responsibility (3-0). A course providing an overview of key aspects of the American Educational System including: Curriculum models and assessment, educator standards, the Texas Administrative Code, legal case studies, and the Educator Code of Ethics. Participants will review local, state, and national policies as they impact PK-12 education. Prerequisite: Completion of Blocks I and II, ED/EDUA 3302 \& 4314 \& 3303 \& 4322. Equivalent courses: EDSR 3300

EDUA 3301 Planning, Instruction, and Assessment (3-0). A course designed for the classroom teacher focusing on key aspects of data driven planning, instruction, and assessment in the classroom. The role of standards based from the Texas Essential

Knowledge and Skills (TEKS) will be applied incorporating various forms of inquiry and direct instruction. Prerequisite: Completion of Blocks I and II, ED/EDUA 3302 \& 4314 \& 3303 \& 4322. Equivalent courses: ED 3301 (through Summer 2022), EDSR 3301

EDUA 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 per TAC §228.35(b)(1). Prerequisite: Admitted to Block I. Equivalent courses: ED 3302 (through Summer 2022), EDSR 3302

EDUA 3303 Methods and Materials for the Classroom Teacher (1-2). An in-depth study of assessment and analysis of student learning focusing on assessment systems, systems used to identify students for learning support, data analysis, and the analysis and response to the data analysis. Classroom and behavioral management will be presented with an emphasis on implementation of developmentally appropriate practices in the educational setting. Includes 10 hours of field experience per TAC \(\S 228.35(\mathrm{~b})(1)\). Prerequisite: Completion of Block I, ED/EDUA 3302 \& 4314. Equivalent courses: ED/EDUC 3303 (through Summer 2022), EDSR 3303
EDUA 3304 Human Growth \& 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. Equivalent courses: ED/EDUC 3304 (through Summer 2022), EDSR 3304

\section*{EDUA 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. Equivalent courses: EDUC 3305 (through Summer 2022), EDSR 3305}

EDUA 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. Equivalent courses: ED 3307 (through Summer 2022), EDSR 3307

EDUA 3308 Language Acquisition and Emergent Literacy (3-0). 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-6th Grade as identified by the State of Texas. Equivalent courses: ED 3308 (through Summer 2022), EDUC 3308 (through Summer 2022), EDSR 3308

EDUA 3309 EC-6 Early Childhood 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. Equivalent courses: ED 3309 (through Summer 2022), EDUC 3309 (through Summer 2022), EDSR 3309
EDUA 3310 EC-6 Early Childhood Curriculum (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. Equivalent courses: EDUC 3310 (through Summer 2022), EDSR 3310
EDUA 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. Equivalent courses: ED 3312 (through Summer 2022), EDUC 3312 (through Summer 2022), EDSR 3312

ED 3314 Language Arts/Social Studies Methods (3-0). \({ }^{\text {W }}\) 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-6th grade as identified by the State of Texas. Equivalent courses: ED 3314 (through Summer 2022), EDUA 3314
EDUA 3328 Foundation 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. Note: EDUA 3328 is required for those seeking Bilingual Certification. Equivalent courses: EDUC 3328 (through Summer 2022), ED 3328 (through Summer 2022), EDSR 3328

EDUA 3329 Methods of Second Language Teaching (3-0). 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-6th grade as identified by the INDEX

State of Texas. Equivalent courses: ED 3329 (through Summer 2022), EDUC 3329 (through Summer 2022), EDSR 3329
EDUA 4199 Special Topics (1-0). A course covering various topics in the field of education. May be repeated for credit when topic varies. Prerequisite: Approval of advisor. Equivalent courses: ED 4199 (through Summer 2022), EDSR 4199

EDUA 4300 internship in Teaching I(3-0). A course serving as a capstone experience for teacher candidates enrolled in the teacher education program. Designed for certification candidates completing their clinical experience over two semesters at 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. Equivalent courses: EDUC 4300 (through Summer 2022), EDSR 4300
EDUA 4301 Internship in Teaching II (3-0). A course serving as a capstone experience for teacher candidates enrolled in the teacher education program. Designed for certification candidates completing their clinical experience over two semesters at an accredited school, jointly supervised by the University and school personnel. Must meet requirements for eligibility to student teach. Offered during spring term only. Equivalent courses: EDUC 4301 (through Summer 2022), EDSR 4301
EDUA 4306 Survey of Exceptional Children (3-0). Education Specialization. A survey of exceptional children involving categorical identification, learning characteristics, instructional intervention, and adjustment needs. Equivalent courses: ED 4306 (through Summer 2022), EDSR 4306
EDUA 4307 Language Arts in the Classroom (3-0). 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. Equivalent courses: ED 4307 (through Summer 2022), EDUC 4307 (through Summer 2022), EDSR 4307

EDUA 4308 The Teaching of Reading (3-0). QEP MAPPED COURSE. 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. Equivalent courses: ED/EDUC 4308 (through Summer 2022), EDSR 4308
EDUA 4310 Social Studies in the Classroom (3-0). This is the first 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. Equivalent courses: ED 4310 (through Summer 2022), EDSR 4310

EDUA 4311 Social Studies in the Classroom II (3-0). This is the second 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. Prerequisite: EDUA 4310. Equivalent courses: EDSR 4311

EDUA 4312 Methods and Classroom Management in Secondary School (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. Equivalent courses: EDUC 4312 (through Summer 2022), EDSR 4312
EDUA 4313 Reading Comprehension and Enrichment (3-0). 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 students 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 an informational texts. Includes field experience. Prerequisites: ED/EDUA/EDUC/EDSR 3308 \& 4308. Equivalent courses: ED/EDUC 4313 (through Summer 2022), EDSR 4313

EDUA 4314 Reading Skills for Content Subjects (3-0). 爱 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. Equivalent courses: ED/EDUC 4314 (through Summer 2022), EDSR 4314

EDUA 4315 Reading Diagnosis and Remediation (3-0). Assessment, diagnostic, and remediation techniques to use in the classroom to determine how to best assist students with reading and identify reading problems. Equivalent courses: ED/EDUC 4315 (through Summer 2022), EDSR 4315

EDUA 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. Equivalent courses: EDUC 4320 (through Summer 2022), EDSR 4320

EDUA 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: Completion of Blocks I; ED/EDUA/EDUC/EDSR 3302 \& 4314. Equivalent courses: ED 4322 (through Summer 2022), EDSR 4322

EDUA 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. Equivalent courses: ED/EDUC 4327 (through Summer 2022), EDSR 4327

EDUA 4328 Teaching Language Arts in the Bilinugual 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. Equivalent courses: ED/EDUC 4328 (through Summer 2022), EDSR 4328

EDUA 4329 Bilingual Planning \& Instruction (3-0). This course is an intensive Spanish language introduction to the planning an instruction of a bilingual classroom, in preparation for the Bilingual certification exam. Required for those seeking Bilingual Certification. Prerequisite EDUA 3328. Equivalent courses: ED 4329 (through Summer 2022), EDSR 4329

EDUA 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. Equivalent courses: ED 4399 (through Summer 2022), EDSR 4399

EDUA 4601 Student Teaching in the Elementary School (Block III) (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: \$200. Equivalent courses: ED/EDUC 4601 (through Summer 2022), EDSR 4601

EDUA 4602 Student Teaching in the Middle School (Block III) (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: \$200. Equivalent courses: ED 4602 (through Summer 2022), EDSR 4602

EDUA 4603 Student Teaching: All-level Certification (Block III) (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: \(\$ 200\). Equivalent courses: ED 4603 (through Summer 2022)
EDUA 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:
\$200. Equivalent courses: ED/EDUC 4605 (through Summer 2022), EDSR 4605
EDUA 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: \(\$ 300\). Equivalent courses: ED 5300 (through Summer 2022), EDSR 5300

EDUA 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: Must be accepted in the Post-Baccalaureate Initial Certification Program. Internship/Practicum fee: \$300. Equivalent courses: ED 5301 (through Summer 2022), EDSR 5301

EDUA 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. Equivalent courses: ED/EDUC 5302 (through Summer 2022), EDSR 5302
EDUA 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. Equivalent courses: ED 5305 (through Summer 2022), EDSR 5305
EDUA 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/EDUA/EDSR 5323. Equivalent courses: ED 5306 (through Summer 2022), EDSR 5306

EDUA 5307 Graduate Research (3-0). 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. Equivalent courses: ED/EDUC 5307 (through Summer 2020), EDSR 5307
EDUA 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. Equivalent courses: ED/EDUC 5308 (through Summer 2022), EDSR 5308
EDUA 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. Equivalent courses: ED 5330 (through Summer 2022), EDUC 5309 (through Summer 2022), EDSR 5309
EDUA 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. Equivalent courses: ED 5310 (through Summer 2022), EDSR 5310
EDUA 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. Equivalent courses: ED 5311 (through Summer 2022), EDSR 5311

EDUA 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. Equivalent courses: ED 5312 (through Summer 2022), EDSR 5312
EDUA 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 with diverse and multicultural populations in school and community settings. Equivalent courses: ED/EDUC 5313 (through Summer 2022), EDSR 5313

EDUA 5314 Personality and Counseling Theories (3-0). A study of human personality dynamics as related to counseling theory and practice, emphasis on traditional, contemporary, modern humanistic and phenomenological theories as they apply to counseling and developmental guidance in a pluralistic society. Must be taken within the first 12 hours. Equivalent courses: ED/EDUC 5314 (through Summer 2022), EDSR 5314

EDUA 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. Equivalent courses: ED/EDUC 5315 (through Summer 2022), EDSR 5315

EDUA 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. Equivalent courses: ED/EDUC 5316 (through Summer 2022), EDSR 5316

EDUA 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. Equivalent courses: ED 5317 (through Summer 2022), EDSR 5317

EDUA 5318 Administration of School Personnel Services (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. Equivalent courses: EDSR 5318

EDUA 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. Equivalent courses: ED/EDUC 5319 (through Summer 2022), EDSR 5319
EDUA 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. Equivalent courses: EDSR 5320

EDUA 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. Equivalent courses: ED 5321 (through Summer 2022), EDSR 5321

EDUA 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. Equivalent courses: ED 5322 (through Summer 2022), EDSR 5322

EDUA 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. Equivalent courses: ED 5323 (through Summer 2022), EDSR 5323
EDUA 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. Equivalent courses: ED 5324 (through Summer 2022), EDSR 5324
EDUA 5325 Evidence Based Intervention (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. Equivalent courses: ED/EDUC 5325 (through Summer 2022), EDSR 5325

EDUA 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. Equivalent courses: ED/EDUC 5327 (through Summer 2022), EDSR 5327

EDUA 5330 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 elementary, middle school, and secondary classrooms 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. Equivalent courses: EDUC 5330 (through Summer 2022), ED 6318 (through Summer 2022), EDSR 5330

EDUA 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. Equivalent courses: ED/EDUC 5332 (through Summer 2022), EDSR 5332

EDUA 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 statisticallysound, data-driven educational research project on an identified need of their school campus related to student achievement. Equivalent courses: ED/EDUC 5333 (through Summer 2022), EDSR 5333

EDUA 5338 TX 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. Equivalent courses: EDUC 5338 (through Summer 2022), EDSR 5338

EDUA 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. Equivalent courses: ED 5360 (through Summer 2022), EDSR 5360
EDUA 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. Equivalent courses: ED 5361 (through Summer 2022), EDSR 5361

EDUA 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. Equivalent courses: ED 5627 (through Summer 2022), EDSR 5627

EDUA 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. Equivalent courses: ED/EDUC 6304 (through Summer 2022), EDUA 6304
EDUA 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. Equivalent courses: ED 6312 (through Summer 2021), ED/EDUC 6305 (through Summer 2022), EDSR 6305

EDUA 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.
Equivalent courses: EDUC 6307 (through Summer 2022), EDSR 6307
EDUA 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. Equivalent courses: ED/EDUC 6308 (through Summer 2022), EDSR 6308

\section*{EDUA 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. Equivalent courses: EDUC 6309 (through Summer 2022), EDSR 6309
EDUA 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 and 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 young children. Equivalent courses: ED/EDUC 6311 (through Summer 2022), EDSR 6311
EDUA 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. Equivalent courses: ED/EDUC 6313 (through Summer 2022), EDSR 6313

EDUA 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. Equivalent courses: ED/EDUC 6314 (through Summer 2022), EDSR 6314

EDUA 6316 Seminar in Counseling (3-0). Issues and topics in counseling; may be repeated twice if course content varies. Equivalent courses: ED/EDUC 6316 (through Summer 2022), EDSR 6316

EDUA 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. Equivalent courses: ED/EDUC 6317 (through Summer 2022), EDSR 6317

EDUA 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. Equivalent courses: EDUC 6318 (through Summer 2022), ED 6344 (through Summer 2022), EDSR 6318
EDUA 6320 Substance Use, Abuse and Addiction (3-0). This course will examine the use, abuse and addiction of drugs and alcohol in a postmodern multicultural and diverse society. Emphasis will be placed on the physiological, psychological, and sociological aspects of abuse/addiction, their impact on the individual, family, and community, and evidence-based treatment approaches. Equivalent courses: EDUC 6320 (through Summer 2022), EDSR 6320

EDUA 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 INDEX
data. If the student is seeking Certification this course must be taken with EDUA 7101. Equivalent courses: ED 6320 (through Summer 2021), ED/EDUC 6324 (through Summer 2022), EDSR 6324

EDUA 6333 Ethical, Legal \& 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. Equivalent courses: ED 6346 (through Summer 2022), EDUC 6333 (through Summer 2022), EDSR 6333

EDUA 6341 Advanced Psychopathology and Psychopharmacology (3-0). This course will prove an overview of pharmacological medications and the abnormal behaviors for which they may be prescribed. The goals of this course are to introduce basic terminology and models of pharmacokinetics as they relate to clinical mental health counseling as well as to examine diagnostic criteria in light of the Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: Advisor Approval. Equivalent courses: EDSR 6341
EDUA 6342 Counseling for Crisis, Trauma \& Disaster (3-0). This course prepares counselors to respond effectively in critical situations of crises, trauma, and disaster. Students learn crisis assessment, diagnoses, post-traumatic patterns, intervention skills, management, and cultural, ethical, and legal considerations for working with diverse and multicultural populations in community and governmental agencies, schools, hospitals and private practice. Equivalent courses: EDUC 6342 (through Summer 2022), EDSR 6342

EDUA 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. Equivalent courses: ED 6343 (through Summer 2022), EDSR 6343
EDUA 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. Equivalent courses: EDUC 6344 (through Summer 2022), EDSR 6344

EDUA 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. Equivalent courses: ED 6345 (through Summer 2022), EDSR 6345
EDUA 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. Equivalent courses: ED 6346 (through Summer 2022),

EDUA 6346
EDUA 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 though experiential activities, case studies, and video presentations. Prerequisite: Advisor Approval. Equivalent courses: ED 6347 (through Summer 2022), EDSR 6347
EDUA 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 EDUA 7102. Equivalent courses: ED 6315 (through Summer 2021), ED/EDUC 6355 (through Summer 2022), EDSR 6355

EDUA 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. Equivalent courses: ED 6371 (through Summer 2022), EDSR 6371
EDUA 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. Equivalent courses: ED 6375 (through Summer 2022), EDSR 6375
EDUA 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. Equivalent courses: ED 6376 (through Summer 2022), EDSR 6376
EDUA 6377 Instructional Design (3-0). This course will provide students with insight into the theories and process that guide effective instructional design. A systemsapproach to designing instruction will be examined, along with methods to evaluate instructional methods. Equivalent courses: ED 6377 (through Summer 2022), EDSR 6377

EDUA 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. Equivalent courses: EDSR 6378
EDUA 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.
Equivalent courses: ED 6379 (through Summer 2022), EDSR 6379
INDEX

EDUA 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. Equivalent courses: ED 6380 (through Summer 2022), EDSR 6380

EDUA 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. Equivalent courses: ED 6381 (through Summer 2022), EDSR 6381

EDUA 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. Equivalent courses: ED 6382 (through Summer 2022), EDSR 6382

EDUA 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. Equivalent courses: ED 6383 (through Summer 2022), EDSR 6383

EDUA 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. Equivalent courses: ED 7309 (through Summer 2021), ED/EDUC 6389 (through Summer 2022), EDSR 6389

EDUA 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/EDUA 5330 and ED/EDUA 5332. Internship/Practicum fee: \$300. Equivalent courses: ED/EDUC 7100 (through Summer 2022), EDSR 7100

EDUA 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: EDUA/EDSR 5330 \& 5332 \& 5333 \& 7304 \& 6305. Internship/Practicum fee: \(\$ 300\). Equivalent courses: ED/EDUC 7101 (through Summer 2022), EDSR 7101

EDUA 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: EDSR/EDUA 5330 \& 5332 \& 5333 \& 7304 \& 6305. Internship/Practicum fee: \(\$ 300\). Equivalent courses: ED/EDUC 7102 (through Summer 2022), EDSR 7102

EDUA 7300 Advanced Applications of Media and 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/EDUA/EDSR 5320 \& 6307. Equivalent courses: ED 7300 (through Summer 2022), EDSR 7300

EDUA 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 entrylevel 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. Equivalent courses: ED 7301 (through Summer 2022), EDSR 7301
EDUA 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. Equivalent courses: ED/EDUC 7302 (through Summer 2022), EDSR 7302
EDUA 7303 Applied Counseling Approaches and Methodology (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. Prerequisites: ED/EDUA 5314. Equivalent courses: ED 7303 (through Summer 2022), EDSR 7303

EDUA 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 EDUA 5333. If student is seeking certification, this course must be taken with EDUA 7100. Equivalent courses: ED/EDUC 7304 (through Summer 2022), EDSR 7304
EDUA 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 INDEX
when the course content varies. Equivalent courses: ED/EDUC 7305 (through Summer 2022), EDSR 7305

EDUA 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. Equivalent courses: ED 7304 (through Summer 2014), ED/EDUC 7306 (through Summer 2022), EDSR 7306

EDUA 7307 Advanced Seminar in Administration (3-0). A course designed especially for preparing administrators for the superintendency; emphasis on decisionmaking modes and leadership change strategies. Equivalent courses: ED/EDUC 7307 (through Summer 2022), EDSR 7307
EDUA 7311 Practicum in Superintendency (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: \(\$ 300\). Equivalent courses: ED/EDUC 7311 (through Summer 2022), EDSR 7311
EDUA 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. Equivalent courses: ED/EDUC 7312 (through Summer 2022), EDSR 7312
EDUA 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: \(\$ 300\)

EDUA 7315 Group Process in 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. Equivalent courses: ED/EDUC 7315 (through Summer 2022), EDSR 7315

EDUA 7316 Practicum in Counseling (0-3). A course that provides reality field experiences in 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: \(\$ 300\). Equivalent courses: ED/EDUC 7316 (through Summer 2022), EDSR 7316
EDUA 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: \(\$ 300\). Equivalent courses: EDUC/ED 7317 (through Summer 2022), EDSR 7317
EDUA 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: \(\$ 300\). Equivalent courses: ED 7318 (through Summer 2022), EDSR 7318
EDUA 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. Equivalent courses: ED 7320 (through Summer 2022), EDSR 7320

EDUA 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. Equivalent courses: ED 7421 (through Summer 2014), ED 7321 (through Summer 2022), EDSR 7321

EDUA 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. Equivalent courses: ED 7323
(through Summer 2022), EDSR 7323
EDUA 7408 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. Prerequisite: Full admission to the Superintendent Certification Program. Equivalent courses: ED 7408 (through Summer 2022), EDSR 7408

EDUA 7422 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. Equivalent courses: ED 7422 (through Summer 2022), EDSR 7422

\section*{ENGLISH (ENG/ENGL) COURSES}

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.
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. Equivalent courses: ENG 2304 (through Summer 2014)
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. Prerequisite: ENG 1301 \& 1302 or 2311

ENG 2322 (ENGL 2322) British Literature I (3-0). English literature of the AngloSaxon Period, Middle Ages, Renaissance, and Age of Reason. Prerequisite: ENG 1301 \& 1302 or 2311

ENG 2323 (ENGL 2323) British Literature II (3-0). English literature of the Romantic, Victorian, and Modern Periods. Prerequisite: ENG 1301 \& 1302 or 2311

ENG 2327 (ENGL 2327) American Literature I (3-0). A study of American literature from Colonial times through the Civil War. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4306 (through Summer 2014)
ENG 2328 (ENGL 2328) American Literature II (3-0). A survey of American literature from the Reconstruction to the Second World War. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4308 (through Summer 2014)

ENG 2331 (ENGL 2331) World Literature (3-0). A study of masterpieces of world literature from ancient times to 1600. Prerequisite: ENG 1301 \& 1302 or 2311.
Equivalent courses: ENG 2302 (through Summer 2014)
ENG 2341 (ENGL 2341) Forms of Literature (3-0). Critical analysis of major literary genres: prose, fiction, poetry, and drama. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 2301 (through Summer 2014)
ENG 3301 Contemporary Literature (3-0). A study that emphasizes works of fiction, drama, and poetry since 1960. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3301
ENG 3302 Creative Writing Multi Genre (3-0). Emphasis on study and practice in techniques of creative writing. Conducted in a workshop format. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3302

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3303

ENG 3304 Shakespeare (3-0). Shakespeare's principal histories, comedies, and tragedies. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3304
ENG 3309 English Literature from Beowulf to 1800 (3-0). \({ }^{\text {/ }}\) QEP MAPPED COURSE. A critical study of the English literature written from approximately 700 A.D. to the end of the eighteenth century. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3309
ENG 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. Prerequisite: ENG 1301 \& 1302 or 2311 . Equivalent courses: ENGL 3310
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 resources available. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3311

ENG 3312 Advanced Composition (3-0). \(\frac{\text { 佥 QEP MAPPED COURSE. An intensive }}{}\) study of writing conducted in a workshop format focused on rhetoric, critical thinking, reading, writing processes, and conventions of usage, grammar, punctuation, and documentation of sources. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3312

ENG 3315 World Literature I (3-0). A study of world literature from the Ancient World to 1600. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3315

ENG 3316 Foundations of Literary Studies (3-0). Advanced critical analysis of major literary types: prose, fiction, poetry, and drama. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3316

ENG 3317 World Literature II (3-0). A study of world literature from the Early Modern World to 1945. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3317

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3320

ENG 3321 Creative Writing: Poetry (3-0). Emphasis on poetry. Provides intensive study of various poetic forms. Focuses on writing and critiquing original poetry. Prerequisite: ENG 1301 \& 1302 or 2311 . Equivalent courses: ENGL 3321
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.
Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 3322
ENG 4300 Portfolio Capstone Course (3-0). A course required of graduating English
majors in which they produce a writing portfolio for applications to graduate programs or employment and to be submitted to the department for program learning outcomes assessment. Instructor approval required. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4301

ENG 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4302

ENG 4303 Special Topics in Literature (3-0). Topics include specific areas of literary studies excluding British and American literature. May be repeated for credit when topic changes. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4303
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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4305

ENG 4306 American Literature to 1865 (3-0). A critical study of the American literature written from Colonial times through the Civil War. Prerequisite: ENG 1301 \& 1302 or 2311 Equivalent courses: ENG 2327 (through Summer 2022), ENGL 4306
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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4307
ENG 4308 American Literature to 1865 to 1940 (3-0). A critical study of the American literature written from Reconstruction to the present. Prerequisite: ENG 1301 \& 1302 or 2311 Equivalent courses: ENG 2328 (through Summer 2022), ENGL 4308

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4310

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4312

ENG 4313 Professional Reports (3-0). An advanced technical communications course. Professional Reports develops knowledge and skills to successfully create cross-curricular professional documents. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4313

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4315

ENG 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4317

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4320
ENG 4327 Readings and Research (3-0). Individually guided study and research in English, American, or international literature or in the English language. May be repeated for credit when the topic varies. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENGL 4327
ENG 5109 Readings and Research (1-0). Individually guided research in literature of the English language. May be repeated for credit as needed. Equivalent courses: ENGL 5109

ENG 5300 Studies and Research Techniques in Critical Theory (3-0). An introduction to graduate research methods in literature and to the study of critical theory as applied to literature. Equivalent courses: ENGL 5300
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. Equivalent courses: ENGL 5302

ENG 5304 Studies and Research Techniques in General Literature (3-0). Topics in literary studies, excluding British or American literature. May be repeated for credit when topic changes. Equivalent courses: ENGL 5304

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. Equivalent courses: ENGL 5305
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, Chaucer, British Novel, Victorian Poets, Contemporary Fiction. May be repeated for credit when the topic varies. Equivalent courses: ENGL 5306
ENG 5307 Seminar: Studies and Research Techniques in American Literature (30). 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. Equivalent courses: ENGL 5307
ENG 5308 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. May be repeated for credit when the topic varies. Equivalent courses: ENGL 5308

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. Equivalent courses: ENGL 5309
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. Equivalent courses: ENGL 6301
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. Equivalent courses: ENGL 6302
ENGL 3301 Contemporary Literature (3-0). A study which emphasizes works of fiction, drama, and poetry since 1960. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3301
ENGL 3302 Creative Writing-Multigenre (3-0). Emphasis on study and practice in techniques of creative writing. Conducted in a workshop format. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3302
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. Prerequisite: ENG 1301 \& 1302 or 2311.
Equivalent courses: ENG 3303
ENGL 3304 Shakespeare (3-0). Shakespeare's principal histories, comedies, and tragedies. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3304

ENGL 3309 English Literature from Beowulf to 1800 (3-0). 每 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. Equivalent courses: ENG 3309
ENGL 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3310
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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3311

ENGL 3312 Advanced Composition (3-0). 晶 QEP MAPPED COURSE. An intensive study of writing conducted in a workshop format focused on rhetoric; critical thinking, reading, writing processes, and conventions of usage, grammar, punctuation, and documentation of sources. Prerequisites: ENGL 1301 and 1302 Equivalent courses: ENG 3312
ENGL 3315 World Literature I (3-0). A study of world literature from the Ancient World INDEX
to 1600. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3315
ENGL 3316 Foundations of Literary Studies (3-0). Advanced critical analysis of major literary types: prose, fiction, poetry, and drama. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3316

ENGL 3317 World Literature II (3-0). A study of world literature from the Early Modern World to 1945. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3317
ENGL 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3320

ENGL 3321 Creative Writing: Poetry (3-0). Emphasis on poetry. Provides intensive study of various poetic forms. Focuses on writing and critiquing original poetry. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3321
ENGL 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 3322
ENGL 4300 Portfolio Capstone Course (3-0). A course required of graduating English majors in which they produce a writing portfolio for applications to graduate programs or employment and to be submitted to the department for program learning outcomes assessment. Instructor approval required. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4300

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4302

ENGL 4303 Special Topics in Literature (3-0). Topics include specific areas of literary studies excluding British and American literature. May be repeated for credit when topic changes. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4303

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4305

ENGL 4306 American Literature to 1865 (3-0). A critical study of the American literature written from Colonial times through the Civil War. Prerequisite: ENG 1301 \& 1302 or 2311 Equivalent courses: ENG 2327 (through Summer 2022), ENGL 4306
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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4307
ENGL 4308 American Literature 1865-1940 (3-0). A critical study of the American literature written from Reconstruction to the present. Prerequisite: ENG 1301 \& 1302 or 2311 Equivalent courses: ENG 2328 (through Summer 2022), ENGL 4308

ENGL 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4310

ENGL 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4312
ENGL 4313 Professional Reports (3-0). An advanced technical communications course. Professional Reports develops knowledge and skills to successfully create cross-curricular professional documents. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4315

ENGL 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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4315

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4317

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. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4320

ENGL 4327 Readings and Research (3-0). Individually guided study and research in English, American, or international literature or in the English language. May be repeated for credit when the topic varies. Prerequisite: ENG 1301 \& 1302 or 2311. Equivalent courses: ENG 4327

ENGL 5109 Readings and Research (1-0). Individually guided research in literature of the English language. May be repeated for credit as needed. Equivalent courses: ENG 5109

ENGL 5300 Studies and Research Techniques in Critical Theory (3-0). An introduction to graduate research methods in literature and to the study of critical theory as applied to literature. Equivalent courses: ENG 5300

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. Equivalent courses: ENG 5302

ENGL 5304 Seminar: Studies and Research Techniques in General Literature (30). Topics in literary studies, excluding British or American literature. May be repeated for credit when topic changes. Equivalent courses: ENG 5304
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. Equivalent courses: ENG 5305
ENGL 5306 Seminar: Studies and Research Techniques in English Literature (30 ). 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, British Novel, Victorian Poets, Contemporary Fiction. May be repeated for credit when the topic varies. Equivalent courses: ENG 5306
ENGL 5307 Seminar: Studies and Research Techniques in American Literature (30 ). 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. Equivalent courses: ENG 5307
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. May be repeated for credit when the topic varies. Equivalent courses: ENG 5308
ENGL 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. Equivalent courses: ENG 5309

ENGL 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. Equivalent courses: ENG 6301
ENGL 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. Equivalent courses: ENG 6302

\section*{FINANCE (FINA/FINR) COURSES}

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. Prerequisites: ACC 2301 and 2302. Equivalent courses: FIN 3340 (through Summer 2022), FINR 3340

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: FINR/FINA 3340 - Corporate Finance or Equivalent. Equivalent courses: FINR 4323
FINA 4342 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 3340 - Corporate Finance or equivalent. Equivalent INDEX
courses: FIN 4342 (through Summer 2022), FINA 4342
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. Equivalent courses: FIN 5306 (through Summer 2022), FINR 5306

FINA 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. Equivalent courses: FINR 5311

FINR 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. Prerequisites: ACC 2301 and 2302. Equivalent courses: FIN 3340 (through Summer 2022), FINA 3340

FINR 4323 Management of Financial Institutions (3-0). A study of management of liquidity, investment portfolios, Ioans, deposits, and non-deposit borrowing of financial institutions in the legal environment. Prerequisite: FINR/FINA 3340 - Corporate Finance or Equivalent. Equivalent courses: FINR 4323

FINR 4342 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 3340 - Corporate Finance or equivalent. Equivalent courses: FIN 4342 (through Summer 2022), FINA 4342

FINR 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. Equivalent courses: FIN 5306 (through Summer 2022), FINA 5306

FINR 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. Equivalent courses: FINA 5311

\section*{FINE ARTS (FA) COURSES}

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 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 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 3305 Producing the Live Event (3-0). Through projects, case studies, and research, students learn the unique considerations and challenges of live event producing.

\section*{FIRST YEAR SEMINAR (SRSU) COURSES}

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. Equivalent courses: ANSC 1101, IT 1101, NRM 1101

\section*{FRESHMAN LEADERSHIP PROGRAM (FLP) COURSES}

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

\section*{GENERAL BUSINESS ADMINISTRATION (GBAA/GBAR) COURSES}

GBAA 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.
GBAA 3199 Applied Research/Internship/Independent Study (1-0). This course is designed expressly for students with sufficient curiosity and demonstrated study 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. Equivalent courses: GBA 3199 (through Summer 2022), GBAA 3199

GBAA 3299 Applied Research/Internship/Independent Study (2-0). This course is designed expressly for students with sufficient curiosity and demonstrated study 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. Equivalent courses: GBA 3299 (through Summer 2022), GBAR 3299

GBAA 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. Equivalent courses: GBUS/GBA 3350 (through Summer 2022), GBAR 3350

GBAA 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. Equivalent courses: BLAW 3310 (through Summer 2021), GBA/GBUS 3351 (through Summer 2022), GBAR 3351
GBAA 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. Equivalent courses: GBUS/GBA 3352 (through Summer 2022), GBAR 3352

GBAA 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. Equivalent courses: GBA 3399 (through Summer 2022), GBAR 3399
GBAA 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. Equivalent courses: GBUS 4305 (through Summer 2022), GBAR 4305

GBAA 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. Equivalent courses: GBUS 4320 (through Summer 2022), GBAR 4320

GBAA 4350 Advanced Readings and Research in Business Administration (3-0).

Selected seminar topics in business administration. Equivalent courses: GBA 4350 (through Summer 2022), GBAR 4350
GBAA 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. Equivalent courses: GBUS/GBA 4355 (through Summer 2022), GBAR 4355

GBAA 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. Equivalent courses: GBA/GBUS 4360 (through Summer 2022), GBAR 4360
GBAA 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 reportwriting are investigated. (MBA Core Course). Equivalent courses: GBUS 5301 (through Summer 2022), GBAR 5301

GBAA 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. Equivalent courses: GBA/GBUS 5302 (through Summer 2022), GBAR 5302

GBAA 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. Equivalent courses: GBA 5304 (through Summer 2022), GBAR 5304

GBAA 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. Equivalent courses: GBA 5308 (through Summer 2022), GBAR 5308

GBAA 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). Equivalent courses: QMTS 5309 (through Summer 2021), GBUS/GBA 5309 (through Summer 2022), GBAR 5309

GBAA 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. Equivalent courses: GBA 5310 (through Summer 2022), GBAR 5310 INDEX

GBAA 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. Equivalent courses: GBA/GBUS 5311 (through Summer 2022), GBAR 5311
GBAR 3199 Applied Research/Internship/Independent Study (1-0). This course is designed expressly for students with sufficient curiosity and demonstrated study 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. Equivalent courses: GBA 3199 (through Summer 2022), GBAA 3199

GBAR 3299 Applied Research/Internship/Independent Study (2-0). This course is designed expressly for students with sufficient curiosity and demonstrated study 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. Equivalent courses: GBA 3299 (through Summer 2022), GBAA 3299

GBAR 3350 Management 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. Equivalent courses: GBUS/GBA 3350 (through Summer 2022), GBAA 3350
GBAR 3351 Business Law (3-0). Legal aspect of business transactions with emphasis on the law of contracts, agency, bailment, and commercial paper. Equivalent courses: BLAW 3310 (through Summer 2021), GBA/GBUS 3351 (through Summer 2022), GBAA 3351

GBAR 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. Equivalent courses: GBUS/GBA 3352 (through Summer 2022), GBAA 3352

GBAR 3399 Applied Research/Internship/Independent Study (3-0). This course is designed expressly for students with sufficient curiosity and demonstrated study 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. Equivalent courses: GBA 3399 (through Summer 2022), GBAA 3399

GBAR 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. Equivalent courses: GBUS 4305 (through Summer 2022), GBAA 4305
GBAR 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 INDEX
3307. Equivalent courses: GBUS 4320 (through Summer 2022), GBAA 4320

GBAR 4350 Advanced Readings and Research in Business Administration (3-0). Selected seminar topics in business administration. Equivalent courses: GBA 4350 (through Summer 2022), GBAA 4350

GBAR 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. Equivalent courses: GBUS/GBA 4355 (through Summer 2022), GBAA 4355

GBAR 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. Equivalent courses: GBA/GBUS 4360 (through Summer 2022), GBAA 4360

GBAR 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 reportwriting are investigated. (MBA Core Course). Equivalent courses: GBUS 5301 (through Summer 2022), GBAA 5301

GBAR 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. Equivalent courses: GBA/GBUS 5302 (through Summer 2022), GBAA 5302

GBAR 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. Equivalent courses: GBA 5304 (through Summer 2022), GBAA 5304
GBAR 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. Equivalent courses: GBA 5308 (through Summer 2022), GBAA 5308

GBAR 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). Equivalent courses: QMTS 5309 (through Summer 2021), GBUS/GBA 5309 (through Summer 2022), GBAA 5309

GBAR 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. Equivalent courses: GBA 5310 (through Summer 2022), GBAA 5310
GBAR 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. Equivalent courses: GBA/GBUS 5311 (through Summer 2022), GBAA 5311

\section*{GENERAL STUDIES (GS) COURSES}

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)

\section*{GEOGRAPHY (GEOG/GGR) COURSES}

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 3303 Special Topics in Geography (3-0). Selected topics in Geography. May be repeated for credit when the topic varies. Equivalent courses: GGR 3303
GEOG 4301 Advanced 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. Equivalent courses: GGR 4301
GEOG 4302 Geography of Texas (3-0). The geography of Texas to include a study of population, culture patterns, environment, urbanization, and economic organization. Equivalent courses: GGR 4302 (through Summer 2022)
GEOG 4304 Advanced Geography of North America (3-0). A study of the physical and cultural geography of the United States, Canada, and Mexico.
GEOG 4327 Readings and Research in Geography (3-0). An independent study of certain topics in geography. Equivalent courses: GGR 4327
GGR 3303 Special Topics in Geography (3-0). Selected topics in Geography. May be repeated for credit when the topic varies. Equivalent courses: GEOG 3303
GGR 4301 World Regional Geography (3-0). Geography of the major world regions INDEX
to include the study of population, environment, cultural patterns, urbanization, and the organization of economies. Equivalent courses: GEOG 4301
GGR 4302 Geography of Texas (3-0). The geography of Texas to include a study of population, culture patterns, environment, urbanization, and economic organization. Equivalent courses: GGR 4302 (through Summer 2022), GEOG 4302

GGR 4304 Advanced Geography of North America (3-0). A study of the physical and cultural geography of the United States, Canada, and Mexico. Equivalent courses: GEOG 4304

GGR 4327 Readings and Research in Geography (3-0). An independent study of certain topics in geography. Equivalent courses: GEOG 4327

\section*{GEOLOGY (GEOL) COURSES}

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 matamorphic 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 Cenozxoic 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 INDEX
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. INDEX

Prerequisite: Computer proficiency required. Lab fee: \(\$ 8\)
GEOL 3402 Structural Geology (3-3). 高 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 tectonicplate 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 filed 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 largescale 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 rasterbased 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.

\section*{HISTORY (HIST/HST) COURSES}

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. Equivalent courses: HST 3300
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. Equivalent courses: HST 3301

HIST 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. Equivalent courses: HST 3302
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 beginning of the Industrial Revolution. Equivalent courses: HST 3304
HIST 3305 Europe: 1870 to the Present (3-0). A history of 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. Equivalent courses: HST 3305

HIST 3306 History of Native Americans (3-0). A history of Indigenous North America that spans the pre-Colombian period to the present. Equivalent courses: HST 3306
HIST 3307 History of Pre-Columbian and Colonial Mexico (3-0). An examination of the history of Mexico from its earliest beginnings through the civilizations of the Olmec, Maya, and Aztecs as well as the impact of the Spanish Conquest of Mexico and the subsequent colonial society through the Independence War of 1810-1821. Equivalent courses: HST 3307

HIST 3308 History of Mexico (3-0). A survey of Mexico from Independence to the present. Equivalent courses: HST 3308 (through summer 2022), HST 3308

HIST 3309 History of Texas (3-0). A survey of the history of Texas from its earliest inhabitants to the present, emphasizing the cultural, political, and social developments of the state. Equivalent courses: HIST 2309 (through Summer 2021), HST 3309

HIST 3310 History of Western America (3-0). A study of the American West during the nineteenth century and twentieth centuries, emphasizing Indigenous peoples, explorers, and immigrants as well as the development of western industries, such as cattle, railroad, farming, and mining. Equivalent courses: HST 3310

HIST 3311 The Study of History (3-0). QEP MAPPED COURSE. An introduction to historiography and to the techniques and the materials important to the study of history. Equivalent courses: HST 3311

HIST 3312 American Foreign Policy and the Cold War 1945-1991 (3-0). A study of American Foreign Policy as it relates to the history of the U.S.-Soviet Cold War from 1945-1991. Equivalent courses: HST 3312

HIST 3313 The Mexican American in United States History (3-0). A survey of the history of the Mexican Americans in the United States, relating their collective experience to Mexican and United States history, with comparisons of their experiences to other Americans. Equivalent courses: HST 3313

HIST 3314 History of African Americans (3-0). QEP MAPPED COURSE. A social, political, economic, and cultural history of African Americans in the United States with comparisons of the African American experience with the experiences to other Americans. Equivalent courses: HST 3314

HIST 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, or the Middle East. Emphasis will be on the 20th century and approaches will vary. Equivalent courses: HST 4302

HIST 4304 Immigration and Ethnicity in America (3-0). An examination of the history of immigration and the issue of ethnicity and multiculturalism in North America from the eighteenth century through the present. Equivalent courses: HST 4304

HIST 4305 History of Modern Asia (3-0). A focus on East Asia and the Confucian societies of China, Korea, Vietnam, and Japan. The course begins with the late traditional era and proceeds to the present. Equivalent courses: HST 4305

HIST 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. Equivalent courses: HST 4314

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, or political topics. Approaches will vary. Equivalent courses: HST 4315

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. Instructor permission is required. Equivalent courses: HST 4316

HIST 4317 Special Topics (3-0). \({ }^{\text {W }}\) 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. Equivalent courses: HST 4317

HIST 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. Equivalent courses: HST 4318

HIST 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, the loss of the American colonies, the struggle with France for world hegemony, the evolution of parliamentary democracy, the impact of industrialization and urban growth, the imperial tensions, and the variety of reforms leading to the modern welfare state. Equivalent courses: HST 4319

HIST 4320 Twentieth Century America (3-0). A survey of or a thematic approach to INDEX

20th Century American history. Themes might include economic, cultural, or political topics. Approaches will vary. Equivalent courses: HST 4320
HIST 4321 History of American Women (3-0). A study of American women from the colonial period to the present, emphasizing social, cultural, economic, and political development. Equivalent courses: HST 4321
HIST 4323 U.S. Civil War and Reconstruction (3-0). An exploration of the causes of the Civil War; the military, political, economic, and social aspects of the war; and the issues and results of Reconstruction. Equivalent courses: HST 4323

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. Equivalent courses: HST 5301
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. Equivalent courses: HST 5302

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 U.S. History or in non-U.S. History for the graduate student in history. Equivalent courses: HST 5303

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. Equivalent courses: HST 5304

HIST 5306 Latin American History: Readings and Research (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-U.S. History for the graduate student in history. Equivalent courses: HST 5306
HIST 5307 Modern Europe, 1750-Present: Readings and Research (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-U.S. History for the graduate student in history. Equivalent courses: HST 5307
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. Equivalent courses: HST 5308
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. Equivalent courses: HST 5310

HIST 5311 United States History, 1600-1865: Readings and Research (3-0). A focus 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 and revolutionary events, challenges of the early republic, slavery, westward expansion, and factors contributing to the Civil War. Topics will vary. Equivalent courses: HST 3311

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. The student may repeat this course in a different topic for additional credit. Equivalent courses: HST 5312

HIST 5313 Special Topics (3-0). Selected topics in areas of history. May be repeated for credit when topic varies. Equivalent courses: HST 5313
HIST 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. Topics will vary. Equivalent courses: HST 5314
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. Equivalent courses: HST 6301
HIST 6302 Thesis Defense (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 Language, Arts and Social 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. Equivalent courses: HST 6302

HST 3300 Ancient Civilization (3-0). A history of the ancient civilizations of the Near East, Greece, and Rome to the 4th century. Equivalent courses: HIST 3300
HST 3301 The Middle Ages to 1350 (3-0). A history of the political, social, and intellectual development of medieval society to the 14th century. Equivalent courses: HIST 3301

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. Equivalent courses: HIST 3302

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 beginning of the Industrial Revolution. Equivalent courses: HIST 3304
HST 3305 Europe: 1870 to the Present (3-0). A history of 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. Equivalent courses: HIST 3305
HST 3306 History of Native Americans (3-0). A history of Indigenous North America that spans the pre-Colombian period to the present. Equivalent courses: HIST 3306

HST 3307 History of Pre-Columbian and Colonial Mexico (3-0). An examination of the history of Mexico from its earliest beginnings through the civilizations of the Olmec, Maya, and Aztecs as well as the impact of the Spanish Conquest of Mexico and the subsequent colonial society through the Independence War of 1810-1821. Equivalent courses: HIST 3307

HST 3308 History of Mexico (3-0). A survey of Mexico from Independence to the present. Equivalent courses: HIST 3308

HST 3309 History of Texas (3-0). A survey of the history of Texas from its earliest inhabitants to the present, emphasizing the cultural, political, and social developments of the state. Equivalent courses: HIST 2309 (through Summer 2021), HIST 3309

HST 3310 History of Western America (3-0). A study of the American West during the nineteenth century and twentieth centuries, emphasizing Indigenous peoples, explorers, and immigrants as well as the development of western industries, such as cattle, railroad, farming, and mining. Equivalent courses: HIST 3310

HST 3311 The Study of History (3-0). \({ }^{\text {骨 }}\) QEP MAPPED COURSE. An introduction to the techniques and the materials important to the study of history. Equivalent courses: HIST 3311

HST 3312 American Foreign Policy and the Cold War 1945-1991 (3-0). A study of American Foreign Policy as it relates to the history of the U.S.-Soviet Cold War from 1945-1991. Equivalent courses: HIST 3312

HST 3313 The Mexican American in United States History (3-0). A survey of the history of the Mexican Americans of the United States, relating their collective experience to Mexican and United States history, with comparisons of their experiences to other Americans. Equivalent courses: HIST 3313

HST 3314 History of African Americans (3-0). QEP MAPPED COURSE. A social, political, economic, and cultural history of African Americans in the United States with comparisons of the African American experience with the experiences to other Americans. Equivalent courses: HIST 3314

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. Emphasis will be on the 20th Century and approaches will vary. Equivalent courses: HIST 4302
HST 4304 History of Immigration and Ethnicity in America (3-0). An examination of the history of immigration and the issue of ethnicity and multiculturalism in North America from the eighteenth century through the present. Equivalent courses: HIST 4304

HST 4305 History of Modern Asia (3-0). A focus on East Asia and the Confucian societies of China, Korea, Vietnam, and Japan. The course begins with the late traditional era and proceeds to the present. Equivalent courses: HIST 4305

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. Equivalent courses: HIST 4314

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, or political topics. Approaches will vary. Equivalent courses: HIST 4315
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. Equivalent courses: HIST 4316

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. Equivalent courses: HIST 4317

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. Equivalent courses: HIST 4318

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. Equivalent courses: HIST 4319

HST 4320 Twentieth Century America (3-0). A survey of or a thematic approach to 20th century American history. Themes might include economic, cultural, or political topics. Approaches will vary. Equivalent courses: HIST 4320

HST 4321 History of American Women (3-0). A study of American women from the colonial period to the present, emphasizing social, cultural, economic, and political developments. Equivalent courses: HIST 4321
HST 4323 U.S. Civil War and Reconstruction (3-0). An exploration of the causes of the Civil War; the military, political, economic, and social aspects of the war; and the issues and results of Reconstruction. Equivalent courses: HIST 4323

HST 5301 Historiography (3-0). A survey of the literature of history and an intensive study of the style and philosophy of leading historians and the nature and extent of writing history. May be repeated in different topics. Successful completion of this course is required for the graduate degree in history. Equivalent courses: HIST 5301

HST 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 U.S. History for the graduate student in history. Equivalent courses: HIST 5302

HST 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 U.S. History or in non-U.S. History for the graduate student in history. Equivalent courses: HIST 5302

HST 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-U.S. history for the graduate student in history. Equivalent courses: HIST 5304

HST 5306 Latin American History: Readings and Research (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-U.S. History for the graduate student in history. Equivalent courses: HIST 5306

HST 5307 Modern Europe, 1750-Present: Readings and Research (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-U.S. History for the graduate student in history. Equivalent courses: HIST 5307

HST 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-U.S. History for the graduate student in history. Equivalent courses: HIST 5308

HST 5310 Seminar in American 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 U.S. History for the graduate student in history. Equivalent courses: HIST 5310

HST 5311 United States History, 1600-1865: Readings and Research (3-0). A focus 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. Equivalent courses: HIST 5311

HST 5312 Readings and Research (3-0). An individualized course with varying topics to be chosen by the instructor in consultation with the student. The student may repeat this course in a different topic for additional credit. Equivalent courses: HIST 5312

HST 5313 Special Topics (3-0). Selected topics in areas of history. May be repeated for credit when topic varies. Equivalent courses: HIST 5313

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. Topics will vary. Equivalent courses: HIST 5314

HST 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. Equivalent courses: HIST 6301
HST 6302 Thesis Defense (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 Language, Arts, and Social Sciences. The committee will designate the student's achievement by awarding one of three grades: Pass with Distinction, Pass, or Fail. Prerequisites: HIST/HST 6301 and consent of the advisor required. Equivalent courses: HIST 6302

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 2349 Intro to Supply Chain Management (3-0). Introduction to the concepts and techniques used to plan, source, manufacturer, and deliver products and services meeting customer needs in a global environment. Topics include supply chain strategy, forecasting, inventory management, logistics, and operations management, among others.

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 costa 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 3320 Warehouse Management (3-0). A study of the concepts of inventory management used in warehouses and distribution centers to accurately report the quantity and value of the materials received, stored and shipped to customers. Introduces select analytical techniques, strategies, and applied problem-solving approaches.

IT 3322 Plastics Technology (2-4). An intensive study of plastic materials characteristics and the common uses of those materials. Introduces students to all disciplines of plastics to include the equipment related to each discipline (primary and auxiliary) and the materials used along with their properties and applications. Students learn the key factors that are driving market growth for this industry and product life cycles.

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 envelops, 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 3365 Lean Systems and Processes (3-0). IT 3365 Lean Systems and Processes (3-0). A course designed to focus on the fundamental concepts, techniques, and tools for improving business processes in supply chain contexts. This course also examines the methodologies used in the area of process improvement that encompass a variety of approaches such as Balanced Scorecard, Six Sigma, Lean, and Total Quality management (TQM).

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 INDEX
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 heir 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.
IT 4340 Business Transportation Management (3-0). A study of the principles of transportation investigating the role of transportation systems; environmental and economic impacts; modal components; managerial and economic aspects of the various modes, with applications to both domestic and international operations.
IT 4345 E-Logistics in Supply Chain Management (3-0). This course introduces students to the role of e-commerce in collaborative distribution and logistics relationships. Students will examine the evolution of e-commerce logistics, and the role of resource and technology interdependencies, exchange governance mechanisms and relationship management bench-marking.

IT 5304 Special Problems in Industrial Technology (3-0). Individual study in selected areas.

IT 5306 Selection Organization and Development of Industrial Technology Instructional Materials (3-0). A course designed for teachers and supervisors of industrial technology in the selection, development, and organization of teaching content, the preparation of job and informational assignments, and the use of written instructional materials.

IT 5310 Strategic Supply Chain Management (3-0). This course explores the current issues, opportunities, strategies, techniques and concepts used to plan, source, manufacturer, and deliver products used in order to meet customer needs in a global environment. Topics include supply chain strategy, forecasting, inventory management, logistics, and operations management, among others.
IT 5330 Transportation and Logistics Management (3-0). This course presents core knowledge related to the areas of Transportation, Logistics and Distribution (TLD) management within supply chain operations. Examines the logistics and transportation operations, including the structure, challenges, and potential of the major modes of domestic transportation. Topics will include cross-docking, reverse logistics tactics, multi-modal freight operations, high-tech automated warehousing and order delivery and current topics in the logistics industry.
IT 5335 Strategic Sourcing and Supplier Management (3-0). This course examines the role of sourcing and procurement functions within a company and the evaluation, selection, and development of suppliers. The course is also designed to emphasize the importance of negotiation and managing contracts. Topics include: category management, supplier solicitation, bidding processes, competitive negotiations, price and cost analysis, total cost of ownership, types of purchasing contracts, and international purchasing issues.

\section*{JOURNALISM (JOUR) COURSES}

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 Journalism, News Writing and Social Media in a Modern Democracy (3-0). Journalism, News Writing and Social Media in a Modern Democracy explores the basics of print, broadcast and social media in the context of history, politics, government and the law. Students will develop a foundation of news writing and a deep understanding of the critical role of the "Fourth Estate" in the shifting landscape of society.

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.

\section*{KINESIOLOGY (KINE) COURSES}

KINE 1130 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. Equivalent courses: PE 1150 (through Summer 2022)
KINE 1131 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. Equivalent courses: KES 1151 (through Summer 2022)
KINE 1132 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. Equivalent courses: KES 1152 (through Summer 2022)
KINE 1133 Lifeguarding (1-2). This course is designed to meet American Red Cross (ACR) 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. Equivalent courses: KES 1153 (through Summer 2022)
KINE 1134 Disc Sports (1-2). This course introduces the fundamentals of flying disc sports. Emphasis is placed on basic throwing techniques rules, scoring, tournament and match play formats will also be introduced. NOTE: Basic equipment will be provided. Open to all levels. Equivalent courses: KES 1154 (through Summer 2022)
KINE 1135 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. Equivalent courses: KES 1155 (through Summer 2022)
KINE 1136 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. Equivalent courses: KES 1157 (through Summer 2022)

KINE 1137 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. Equivalent courses: KES 1158 (through Summer 2022)

KINE 1138 Individual Activities (0-2). Individual sports of Archery, Aerobics, Golf, and Weight Training and Conditioning. Course fee: \$8. Equivalent courses: PE 1153 (through Summer 2022)

KINE 1139 Yoga (1-2). This course introduces the fundamentals of yoga. Emphasis is placed on beginner yoga practices to support health and wellness. NOTE: Basic equipment will be provided. Open to all levels.

KINE 1140 Weight Training (1-2). This activity course is designed to instruct and practice the various types resistance weight training techniques that can support lifespan health and fitness. Class demonstrations and resistance training sessions will be scaled to individual fitness levels and goal. Open to all ages. Equipment provided.

KINE 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. Equivalent courses: PE 1303 (through Summer 2014), PE 1301 (through Summer 2022)

KINE 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). Equivalent courses: PE 1306 (through Summer 2022)
KINE 1330 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. Equivalent courses: KES 1310 (through Summer 2022)

KINE 1340 Concepts of Fitness \& Wellness (3-0). The course will give students the knowledge and skills to make meaningful and lasting behavior change which improve their exercise, eating, and stress management habits.
KINE 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. Equivalent courses: KES 1350 (through Summer 2022)

KINE 2302 Recreation and Leisure Services (3-0). Introduction to recreation, includes brief historical backgrounds, professional opportunities, present status, past INDEX
and present leaders. Role of leisure time in our social structure, professional responsibility, familiarization with current issues and trends, and professional literature. Lecture and filed trips. Equivalent courses: KES 2311 (through Summer 2022)
KINE 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. Equivalent courses: KES 2303 (through Summer 2022)
KINE 2314 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). Equivalent courses: PE 2304 (through Summer 2022)

KINE 2334 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. Equivalent courses: KES 2314 (through Summer 2022)

KINE 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. Equivalent courses: KES 2340 (through Summer 2022)

KINE 2350 Care and Prevention of Athletic Injuries (3-0). An introductory course to injury prevention, treatment and rehabilitation techniques in a sport setting. Equivalent courses: KES 3303 (through Summer 2022)

KINE 2360 Fundamentals of Group Fitness (3-0). This course is designed to prepare and qualify students to work as group fitness instructors. The course provides an evidence-based approach to learn the fundamentals of group fitness-from exercise programing and motivation techniques to music selection-to deliver unforgettable classes. An additional fee is required to cover the costs of a national certification exam, textbooks, and ancillary material.
KINE 2361 Essentials of Personal Training (3-0). This course is designed to prepare and qualify students to work as personal trainers. The course provides an evidencebased approach for designing exercise programs to help anyone reach their fitness goals - from beginners to professional athletes. An additional fee is required to cover the costs of a national certification exam, textbooks, and ancillary material.
KINE 2370 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. Equivalent courses: KES 2330 (through Summer 2022)

KINE 3301 Structural 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. Equivalent courses: PE 3307 (through Summer 2022)
KINE 3302 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). Equivalent courses: PE 3305 (through Summer 2022)

KINE 3305 Physiology of Exercise (3-0). Physiological responses of the human body during various levels/intensities of physical activity and exercise. Equivalent courses: KES 3305 (through Summer 2022)
KINE 3310 Theory \& Practice of Physical Education (3-0). The course provides a broad range of experience and assessment in order to help prepare students in leading physical education in K-12 Texas public schools.
KINE 3312 Foundations of Adapted Physical Education and Recreation (3-0). The course is designed for preservice physical education, elementary education, and other professionals who serve special needs populations. The course provides a broad range of experiences and assessment in order to help prepare students to work the special needs children and young adults 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. Equivalent courses: KES 2320 (through Summer 2022)

KINE 3313 (PHED 1331) Principles of Elementary Physical Education \& Health (30 ). 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). Equivalent courses: PE 2303 (through Summer 2022)
KINE 3320 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 injures. (Fall) Prerequisite: PE 1306, Safety and First Aid. Equivalent courses: PE 4304 (through Summer 2022). Equivalent courses: PE 4305 (through Summer 2022)
KINE 3321 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
KINE 3332 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 21st century, and death and dying. Equivalent courses: KES 3302 (through Summer 2022)
KINE 3334 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). Equivalent courses: PE 3304 (through Summer 2022)
KINE 3341 Facility Management in Sport \& Recreation (3-0). This course is a requirement for the Bachelor of Science degree with a concentration in Sport

Administration. The course provides an overview of planning, development, and operation of sport facilities and sport events. The course includes methods to measure facility and event performance.

KINE 3343 Biomechanics (3-0). This course pertains to the mechanics of human movement during physical activity and exercise. Qualitative and quantitative analysis are used to optimize human performance and rehabilitation. Prerequisites: BIOL 2401 or BIOL 2402 with grade C or better. Equivalent courses: KES 3313 (through Summer 2022)

KINE 3360 Sports Nutrition (3-0). This course is designed to prepare and qualify students to work as nutrition coaches for athlete and non-athlete populations. The course provides an evidence-based approach to help clients lose weight, enhance athletic performance, or optimize health through proven nutritional strategies. designing. An additional fee is required to cover the costs of a national certification exam, textbooks, and ancillary material.

KINE 3370 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. Equivalent courses: KES 3321 (through Summer 2022)
KINE 3376 Water Recreation and Safety (2-2). Course designed to develop an understanding and application of 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 outdoor leadership. Field days required (3-5 days). Equivalent courses: KES 3316 (through Summer 2022)
KINE 3378 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. Equivalent courses: KES 3318 (through Summer 2022)

\section*{KINE 3380 Entrepreneurship in Sport \& Recreation (3-0).}

KINE 3390 Global Perspectives in Sport \& Recreation (3-0). A course to examine the areas of sport and recreation across and within international settings to broaden the students experience and scope of practice.

KINE 3392 Research in Kinesiology (3-0). A course to provide knowledge and application of basic, clinical, and applied research in kinesiology settings. Particular emphasis is given to understanding the body of work on a topic, experimental design, and the research process. Students are given opportunities to design, conduct and/or participate in a research project related to kinesiology.

KINE 4309 Practicum in Kinesiology (0-3). \({ }^{\circ}\) 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. Equivalent courses: KES 4360 (through Summer 2022)

KINE 4311 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. Equivalent courses: PE 4301 (through Summer 2022)
KINE 4326 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. Equivalent courses: PE 4306 (through Summer 2022)
KINE 4327 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. Equivalent courses: PE 2307 (through Summer 2022)
KINE 4328 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). Equivalent courses: PE 4308 (through Summer 2022)
KINE 4330 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. Equivalent courses: KES 4310 (through Summer 2022)
KINE 4332 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. Equivalent courses: KES 4312 (through Summer 2022)
KINE 4336 Exercise Programming for Special Populations (3-0). Creating exercise programs for populations of people having health concerns in the 21st century; programming application to coronary heart disease, diabetes, asthma, obesity, pregnancy, and physical and mental disabilities. Equivalent courses: KES 4316 (through Summer 2022)

KINE 4340 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. Equivalent courses: KES 4313 (through Summer 2022)
KINE 4353 Concepts of Strength \& Conditioning (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. Equivalent courses: PE 4303 (through Summer 2022)

KINE 4364 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. Equivalent courses: KES 4303 (through Summer 2022)

KINE 4390 Special Topics in Kinesiology (3-0). Selected topics in Kinesiology. The course may be repeated for different topics. Offered when needed. Permission of instructor. Equivalent courses: KES 4361 (through Summer 2022)
KINE 4392 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. Equivalent courses: KES 4362 (through Summer 2022)
KINE 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. Equivalent courses: KES 5301 (through Summer 2022)
KINE 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. Equivalent courses: KES 5305 (through Summer 2022)

KINE 5307 Issues in Sports Law (3-0). This course covers various individual and nonprofessional 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. Equivalent courses: KES 5307 (through Summer 2022)

KINE 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. Equivalent courses: KES 5312 (through Summer 2022)
KINE 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. Equivalent courses: KES 5313 (through Summer 2022)

KINE 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. Equivalent courses: KES 5314 (through Summer 2022)

KINE 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. Equivalent courses: KES 5315 (through Summer 2022)
KINE 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. Equivalent courses: KES 5316 (through Summer 2022)
KINE 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. Equivalent courses: KES 5321 (through Summer 2022)

KINE 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. Equivalent courses: KES 5322 (through Summer 2022)
KINE 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. Equivalent courses: KES 5323 (through Summer 2022)

KINE 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. Equivalent courses: KES 5324 (through Summer 2022)
KINE 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. Equivalent courses: KES 5325 (through Summer 2022)

KINE 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 oneway ANOVA. Students should have a basic understanding of conducting library and Internet information searches prior to taking this course. Equivalent courses: KES 5373 (through Summer 2022)

KINE 5609 Advanced Practicum in Kinesiology (0-6). A course which provides real world application of blank 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. Equivalent courses: KES 5609 (through Summer 2022)

\section*{LIBERAL ARTS (LA) COURSES}

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

\section*{MANAGEMENT (MGTA/MGTR) COURSES}

MGTA 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. Equivalent courses: MGT 3360 (through Summer 2021), MGMT/MGT 3306 (through Summer 2022), MGTR 3306
MGTA 3322 Management Communication (3-0). QEP MAPPED COURSE. The application of communication models and principals within organizations including leadership, coordination, control, and teams. Equivalent courses: MGMT/MGT 3322 (through Summer 2022), MGTR 3322
MGTA 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. Equivalent courses: MGT 3363 (through Summer 2022), MGTR 3363
MGTA 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. Equivalent courses: MGMT 4350 (through Summer 2022), MGTR 4350

MGTA 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. Equivalent courses: MGT 4361 (through Summer 2022), MGTR 4361
MGTA 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. Equivalent courses: MGT 4362 (through Summer 2022), MGTR 4362
MGTA 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. Equivalent courses: MGMT/MGT 5304 (through Summer 2022), MGTR 5304
MGTA 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. Equivalent courses: MGMT 5307 (through Summer 2022), MGTR 3307
MGTA 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. Equivalent courses: MGT 5312 (through Summer 2022), MGTR 5312

MGTR 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. Equivalent courses: MGT 3360 (through Summer 2021), MGMT/MGT 3306 (through Summer 2022), MGTA 3306
MGTR 3322 Management Communication (3-0). QEP MAPPED COURSE. The application of communication models and principals within organizations including leadership, coordination, control, and teams. Equivalent courses: MGMT/MGT 3322 (through Summer 2022), MGTA 3322

MGTR 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. Equivalent courses: MGT 3363 (through Summer 2022), MGTA 3363

MGTR 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.

MGTR 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. Equivalent courses: MGT 4361 (through Summer 2022), MGTA 4361

MGTR 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. Equivalent courses: MGT 4362 (through Summer 2022), MGTA 4362

MGTR 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. Equivalent courses: MGMT/MGT 5304 (through Summer 2022), MGTA 5304
MGTR 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. Equivalent courses: MGMT 5307 (through Summer 2022), MGTA 3307

MGTR 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. Equivalent courses: MGT 5312 (through Summer 2022), MGTA 5312

\section*{MANAGEMENT INFORMATION SYSTEMS (MISR) COURSES}

MISR 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. Equivalent courses: MISY 3320
MISR 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. Equivalent courses: MISY 3360
MISR 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. Equivalent courses: MISY 4310
MISR 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. Equivalent courses: MISY 4350

\section*{MARKETING (MKT/MKTG) COURSES}

MKTA 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. Equivalent courses: MKT 3370 (through Summer 2021), MKTG/MKT 3307 (through Summer 2022), MKTR 3307
MKTA 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. Equivalent courses: MKTG 3317 (through Summer 2022), MKTR 3317
MKTA 3371 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: MKTA 3307 - Principles of Marketing or Equivalent. Equivalent courses: MKT 3371 (through Summer 2022), MKTR 3371

MKTA 3372 Sales Management (3-0). An analysis of the management skills needed to plan, organize and control a modern sales organization. Equivalent courses: MKT 3372 (through Summer 2022), MKTR 3372
MKTA 4310 Current Topics in Marketing (3-0). An elective marketing course deigned to expand students' basic knowledge and skills beyond the core 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. Equivalent courses: MKTG 4310 (through Summer 2022), MKTR 4310
MKTA 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. Equivalent courses: MKTG 4349 (through Summer 2022), MKTR 4349

MKTA 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. Equivalent courses: MKT 4370 (through Summer 2022), MKTR 4370

MKTA 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. Equivalent courses: MKT 4371 (through Summer 2022), MKTR 4371

MKTA 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. Equivalent courses: MKT 5303 (through Summer 2022), MKTR 5303
MKTA 5305 Seminar in Marketing (3-0). An advanced graduate course in marketing management and appropriate marketing program development. Equivalent courses: MKT/MKTG 5305 (through Summer 2022), MKTR 5305
MKTA 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. Equivalent courses: MKTG 5306 (through Summer 2022), MKTR 5306
MKTR 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. Equivalent courses: MKT 3370 (through Summer 2021), MKTG/MKT 3307 (through Summer 2022), MKTA 3307
MKTR 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. Equivalent courses: MKTG 3317 (through Summer 2022), MKTA 3317
MKTR 3371 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: MKTA 3307 - Principles of Marketing or Equivalent. Equivalent courses: MKT 3371 (through Summer 2022), MKTA 3371
MKTR 3372 Sales Management (3-0). An analysis of the management skills needed to plan, organize and control a modern sales organization. Equivalent courses: MKT 3372 (through Summer 2022), MKTA 3372

MKTR 4310 Current Topics in Marketing (3-0). An elective marketing course designed to expand students' basic knowledge and skills beyond the core 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. Equivalent courses: MKTG 4310 (through Summer 2022), MKTA 4310
MKTR 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. Equivalent courses: MKTG 4349 (through Summer 2022), MKTA 4349

MKTR 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. Equivalent courses: MKT 4370 (through Summer 2022), MKTA 4370

MKTR 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. Equivalent courses: MKT 4371 (through Summer 2022), MKTA 4371
MKTR 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. Equivalent courses: MKT 5303 (through Summer 2022), MKTA 5303
MKTR 5305 Seminar in Marketing (3-0). An advanced graduate course in marketing management and appropriate marketing program development. Equivalent courses: MKT/MKTG 5305 (through Summer 2022), MKTA 5305
MKTR 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. Equivalent courses: MKTG 5306 (through Summer 2022), MKTA 5306

\section*{MATHEMATICS (MATH/MTH) COURSES}

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 pursing a B.S. degree to take MATH 1314 as a stand-alone course.
MATH 0132 MATH 0132 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 pursing 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 pursing a B.S. degree to take MATH 1342 as a INDEX
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 multistep equations and proportions and verbal and written communication involving mathematical language, symbols and notation. Credit is 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 hypothesistesting. 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. Equivalent courses: MATH 1315 (through Summer 2014)
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 INDEX
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. Equivalent courses: MTH 3301

MATH 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. Equivalent courses: MTH 3302

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. Equivalent courses: MATH 3303 (through Summer 2022), MTH 3314

MATH 3306 Special Topics (3-0). Discussion of selected topics in mathematics. Course may be repeated as topics vary. Prerequisite: permission of instructor. Equivalent courses: MTH 3306

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. Equivalent courses: MTH 3307

MATH 3311 Foundations of Basic Mathematical Theory III (3-0). Further study in mathematics including probability measurement and geometry-geometric figures, networks, transformations, symmetrics, congruence, similarity and construction. Elementary Education only. Prerequisites: MATH 2311. Equivalent courses: MTH 3311
MATH 3314 Individual Studies (3-0). Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor. Equivalent courses: MATH 3303 (through Summer 2022), MTH 3314

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. Equivalent courses: MTH 3330

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. Equivalent courses: MTH 3340
MATH 3403 Individual Studies (3-2). In this course, students complete individual work towards the fulfillment of their degree. Prerequisite: Consent of instructor. Equivalent courses: MATH 3403

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. Equivalent courses: MATH 2415 (through Summer 2014), MATH 3415
MATH 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. Equivalent courses: MATH 4301
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. Equivalent courses: MATH 4303
MATH 4304 Probability and Statistics II (3-0). Linear regression and correlation, multiple regression, analysis of variance, analysis of enumerative data. Prerequisites: MATH/MTH 3302. Equivalent courses: MTH 4304

MATH 4320 Real Analysis (3-0). Topology of the real line, sequences, series, continuity, and differentiation. Prerequisite: MATH 2414. Equivalent courses: MTH 4320
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. Equivalent courses: MTH 4340

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. Equivalent courses: MTH 4360

MATH 4390 Senior Project (3-0). \({ }^{\text {W }}\) 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. Equivalent courses: MTH 4390

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. Equivalent courses: MTH 5301
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. Equivalent courses: MTH 5302
MATH 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. Prerequisites: MATH 4301 or 4320 or permission of instructor. Equivalent courses: MTH 5305

MATH 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. Equivalent courses: MTH 5307
MATH 5309 Advanced Algebra (3-0). Groups, rings, integral domains and fields, polynomial rings, Galois Theory and related topics. Prerequisite: MATH 4301 or permission of the instructor. Equivalent courses: MATH 5309
MATH 5311 Real Analysis (3-0). Metric spaces, Lebesgue measure, integration, differentiation, function spaces and harmonic analysis. Prerequisite: MATH 4320 or INDEX
permission of the instructor. Equivalent courses: MTH 5311
MATH 5315 Individual Studies (3-0). Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor.

MATH 5316 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. Equivalent courses: MTH 5303 (through Summer 2022), MTH 5316

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. Equivalent courses: MATH 3301

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. Equivalent courses: MATH 3302
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. Equivalent courses: MATH 3305

MTH 3306 Special Topics (3-0). Discussion of selected topics in mathematics. Course may be repeated as topics vary. Prerequisite: permission of instructor. Equivalent courses: MATH 3306

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. Equivalent courses: MATH 3307

MTH 3311 Foundations of Basic Mathematical Theory III (3-0). Further study in mathematics including probability measurement and geometry-geometric figures, networks, transformations, symmetrics, congruence, similarity and construction. Elementary Education only. Prerequisite: MTH 3309. Equivalent courses: MATH 3311

MTH 3314 Individual Studies (3-0). Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor. Equivalent courses: MATH 3303 (through Summer 2022), MATH 3314

MTH 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, encipherign matrices, public key cryptography, pseudoprimes, and factoring techniques. Offered fall or spring when needed. Prerequisites: MATH 2414. Equivalent courses: MATH 3330

MTH 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. Equivalent courses: MATH 3340

MTH 3403 Individual Studies (3-2). In this course, students complete individual work
towards the fulfillment of their degree. Prerequisite: Consent of instructor. Equivalent courses: MTH 3403

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. Equivalent courses: MATH 2415 (through Summer 2014), MATH 3415

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. Equivalent courses: MTH 4301

MTH 4303 Individual Studies (3-0). Independent study of selected topics in mathematics. This course may be repeated during different semesters. Prerequisite: Permission of instructor. Equivalent courses: MTH 4303

MTH 4304 Probability and Statistics II (3-0). Linear regression and correlation, multiple regression, analysis of variance, analysis of enumerative data. Prerequisite: MTH/MATH 3302. Equivalent courses: MATH 4304

MTH 4320 Real Analysis (3-0). Topology of the real line, sequences, series, continuity, and differentiation. Prerequisite: MATH 2414. Equivalent courses: MATH 4320

MTH 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. Prerequisites: MATH 2414. Equivalent courses: MATH 4340
MTH 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. Equivalent courses: MATH 4360

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. Equivalent courses: MATH 4390

MTH 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. Equivalent courses: MATH 5301

MTH 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. Equivalent courses: MTH 5302

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. Equivalent courses: MATH 5305

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. Equivalent courses: MATH 5307

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. Equivalent courses: MTH 5309
MTH 5311 Real Analysis (3-0). Metric spaces, Lebesque measure, integration, differentiation, function spaces and harmonic analysis. Prerequisite: MTH 4307 or permission of the instructor. Equivalent courses: MATH 5311

MTH 5316 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. Equivalent courses: MTH 5303 (through Summer 2022), MATH 5316

\section*{MEXICAN AMERICAN STUDIES (MAS) COURSES}

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 codeswitching.
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 Corridas. 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.

\section*{MUSIC (MUS) COURSES}

MUS 1111 Individual Instruction (1-0). (May be repeated for credit.) Students meet with a music instructor for one hour per week for an individual lesson in vocal or instrumental music. Enrollment is open to music majors and minors, and all interested students with the permission of the instructor. Private lesson fee: \$25

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 thirtyminute or one-hour lesson and not less than 10 hours practice per week. Designed for INDEX

Music majors, but other students may enroll with the permission of the instructor. Private lesson fee: \$25
\begin{tabular}{llllll}
01 & Piano & 07 & Bassoon 13 & Percussion \\
02 & Voice & 08 & French Horn 14 & Guitar \\
03 & Flute & 09 & Trumpet 15 & Violin Family \\
04 & Oboe & 10 & Trombone 16 & Other \\
05 & Clarinet & 11 & Euphonium 17 & Organ \\
06 & Saxophone & 12 & Tuba & &
\end{tabular}

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 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. INDEX

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). \({ }^{\text {/ }}\) QEP MAPPED COURSE. (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
\begin{tabular}{llllll}
01 & Piano & 07 & Bassoon 13 & Percussion \\
02 & Voice & 08 & French Horn 14 & Guitar \\
03 & Flute & 09 & Trumpet & 15 & Violin Family \\
04 & Brass & 10 & Trombone 16 & Other \\
& Ensemble & & & & \\
05 & Clarinet & 11 & Euphonium 17 & Organ \\
06 & Saxophone & 12 & Tuba & &
\end{tabular}

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.
\begin{tabular}{llllll}
01 & Concert Band & 05 & \begin{tabular}{l} 
Woodwind \\
Ensemble
\end{tabular} & 09 & Percussion Ensemble \\
02 & Symphonic Wind & 06 & Wind Ensemble & 10 & Orchestra \\
& Ensemble & & & \\
03 & Jazz Ensemble & 07 & Guitar Ensemble & 11 & Marching Band \\
04 & Brass Ensemble & 08 & Specialty & &
\end{tabular}

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). QEP MAPPED COURSE. (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
\begin{tabular}{lllll}
01 & Piano & 07 & Bassoon 13 & Percussion \\
02 & Voice & 08 & French Horn 14 & Guitar \\
03 & Flute & 09 & Trumpet & 15 \\
04 & Oboe & 10 & Trombone 16 & Violin Family \\
05 & Clarinet & 11 & Euphonium 17 & Other \\
06 & Saxophone & 12 & Tuba &
\end{tabular}

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). (May be repeated for credit if conducting problem varies.) 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). 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). 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.

\section*{NATURAL RESOURCE MANAGEMENT (NRM) COURSES}

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). 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. Equivalent courses: NRM 2404 (through Summer 2014)

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 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. Equivalent courses: NRM 2201 (through Summer 2013), NRM 3201 (through Summer 2021)
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. Equivalent courses: NRM 4406 (through Summer 2012)

NRM 4305 Wildlife Management Techniques (2-2). \({ }^{\text {T}}\) 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. Equivalent courses: NRM 4305 (through Summer 2012)
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. Equivalent courses: NRM 4408 (through Summer 2012)
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 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 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, hoe 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 preapproved 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 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.

NRM 6316 Project Research (1to9-0). Research for thesis project. May be repeated. Prerequisite: Master of Science students that have been admitted to candidacy. Equivalent courses: NRM 5316 (through Summer 2022)

\section*{NURSING (NUR/NURS) COURSES}

\section*{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, a 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 rugs, 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 conceptbased integrated approach to learning continues with concepts analyzed across the lifespan 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 are 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-Osurgical 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 evidencebased 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-Ocare 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 a all aged patents/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 Peroperative 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 interprofessional 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 (30). 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 INDEX
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.

\section*{ORGANIZATIONAL LEADERSHIP (ORGL) COURSES}

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 3303 Organizational Leadership (3-0).
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

\section*{PHILOSOPHY (PHIL) COURSES}

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.

PHIL 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). Equivalent courses: PHL 3301 (through Summer 2022)

\section*{PHYSICAL SCIENCE (PHSC) COURSES}

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: \(\$ 8\)

\section*{PHYSICS (PHYS) COURSES}

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 chromo dynamics. 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

\section*{POLITICAL SCIENCE (POLS/PS) COURSES}

POLS 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. Equivalent courses: PS 3300

POLS 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. Equivalent courses: PS 3301

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. Equivalent courses: PS 3302

POLS 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. Equivalent courses: PS 3303

POLS 3304 Integrated Social Sciences (3-0). This course covers the State of Texas interdisciplinary standards for Social St5udies Generalist EC-6; social sciences in society and the world, history, geography, economics, government, citizenship, culture, science, technology, and society. Equivalent courses: PS 3304

POLS 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. Equivalent courses: PS 3305
POLS 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. Equivalent courses: PS 3306
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. Equivalent courses: PS 3307

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. Equivalent courses: PS 3308

POLS 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. Equivalent courses: PS 3312

POLS 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. Equivalent courses: PS 3314

POLS 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. Equivalent courses: PS 3315

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. Equivalent courses: PS 4302

POLS 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. Equivalent courses: PS 4303

POLS 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. Equivalent courses: PS 4308

POLS 4311 Readings and Research (0-3). Special courses on topics not included in the regular curriculum. May be repeated for credit with departmental approval. Equivalent courses: PS 4311
POLS 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. Equivalent courses: PS 4312

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. Equivalent courses: PS 5301

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. Equivalent courses: PS 5302

POLS 5303 Public Administration Survey (3-0). The conduct of public business by
organized agencies at national, state and local levels. (Public Administration). Equivalent courses: PS 5303
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. Equivalent courses: PS 5304
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. Equivalent courses: PS 5305

POLS 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. Equivalent courses: PS 5307
POLS 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). Equivalent courses: PS 5308

POLS 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). Equivalent courses: PS 5309

POLS 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). Equivalent courses: PS 5310

POLS 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). Equivalent courses: PS 5311

POLS 5312 Agency Politics (3-0). A seminar which deals with the several types of non-electoral politics in which public agencies are regularly involved: intraorganizational conflicts, accommodations, negotiations and competitions; and interorganizational with other agencies, clientele-constituency groups, and legislative and executive entities. (Public Administration). Equivalent courses: P 5312
POLS 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). Equivalent courses: PS 5313
POLS 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). Equivalent courses: PS 5315

POLS 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). Equivalent courses: PS 5316

POLS 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. Equivalent courses: PS 6301
POLS 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. Equivalent courses: PS 6302
PS 2305 (GOVT 2305) Federal Government (3-0). A required course in United States Government. Equivalent courses: PS 2302 (through Summer 2003)
PS 2306 (GOVT 2306) State Government (3-0). A required course in Texas Government. Equivalent courses: PS 2301 (through Summer 2003)
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. Equivalent courses: POLS 3300
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. Equivalent courses: POLS 3301

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. Equivalent courses: POLS 3302

PS 3303 Public Policy (3-0). 黄 QEP MAPPED COURSE. 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. Equivalent courses: POLS 3303

PS 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. Equivalent courses: POLS 3304

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. Equivalent courses: POLS 3305
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. Equivalent courses: POLS 3306
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. Equivalent courses: POLS 3307
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. Equivalent courses: POLS 3308

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. Equivalent courses: POLS 3312

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. Equivalent courses: POLS 3314
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. Equivalent courses: POLS 3315

PS 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. Equivalent courses: POLS 4302
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. Equivalent courses: POLS 4303

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. Equivalent courses: POLS 4308
PS 4311 Special Topics (3-0). Special courses on topics not included in the regular curriculum. May be repeated for credit with departmental approval. Equivalent courses: POLS 4311

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. Equivalent courses: POLS 4312

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. Equivalent courses: POLS 5301

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. Equivalent courses: POLS 5302

PS 5303 Public Administration Survey (3-0). The conduct of public business by organized agencies at national, state and local levels. (Public Administration) Equivalent courses: POLS 5303

PS 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. Equivalent courses: POLS 5304

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. Equivalent courses: POLS 5305

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. Equivalent courses: POLS 5307
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). Equivalent courses: POLS 5308

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). Equivalent courses: POLS 5309
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). Equivalent courses: POLS 5310

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). Equivalent courses: POLS 5311

PS 5312 Agency Politics (3-0). A seminar which deals with the several types of nonelectoral 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). Equivalent courses: POLS 5312

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). Equivalent courses: POLS 5313

PS 5315 Local Government Administration (3-0). Administration of local government with particular reference to small cities in Texas. May also include counties, metrosystems, school districts, and other special purpose units. (Public Administration). Equivalent courses: POLS 5315

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). Equivalent courses: POLS 5316

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. Equivalent courses: POLS 6301

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. Equivalent courses: POLS 6302

\section*{PSYCHOLOGY (PSCH/PSY) COURSES}

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. Equivalent courses: PSY 3301

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. Equivalent courses: PSY 3302

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, selfefficacy, mindfulness, flow, learned optimism, social capital, and affective forecasting are addressed. Equivalent courses: PSY 3303

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. Equivalent courses: PSY 3305

PSCH 3306 Child Development (3-0). This course presents the major theories of child INDEX
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. Equivalent courses: PSY 3306

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. Equivalent courses: PSY 3307
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. Equivalent courses: PSCH 3304 (through Summer 2021), PSY 3309

PSCH 3310 Study 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. Equivalent courses: PSY 3310
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. Equivalent courses: PSY 3311
PSCH 3312 Human Sexuality (3-0). Fundamentals of human sexuality including biological, behavioral, and cultural aspects of sexuality. Equivalent courses: PSY 3312

PSCH 3313 Social Attitudes (3-0). An introduction to the study of political behavior and attitude research focusing on problems of measurement, empirical findings, theories of acquisition and change, media effects, as well as political socialization and political personality. Prerequisites: PSY 1302 or permission of instructor.
PSCH 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. Equivalent courses: PSY 3314
PSCH 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. Equivalent courses: PSY 2310 (through Summer 2021), PSY 3315
PSCH 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. Equivalent courses: PSY 3316

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. Equivalent courses: PSCH 4320 (through Summer 2021), PSY 3320
PSCH 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: PSCH 2301 or consent of instructor. Equivalent courses: PSY 4109
PSCH 4209 Upper Division Readings 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 completion earns 2 upper division semester credit hours. Prerequisite: PSCH 2301 or consent of instructor. Equivalent courses: PSY 4209
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. Equivalent courses: PSY 4302

PSCH 4305 Gerontology (3-0). A survey of the issues relating to aging including family dynamics, retirement adjustments, legislation, mental health and physical health. Equivalent courses: PSY 4305

PSCH 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. Equivalent courses: PSY 4306
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. Equivalent courses: PSY 4308

PSCH 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: PSCH 2301 or consent of instructor. Equivalent courses: PSY 4309
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. Equivalent courses: PSY 4310

PSCH 4312 Community Experience in Psychology (3-0). This course allows
students to gain practical experience with human service agencies. Students are assigned to work with an area agency. May be taken only once to meet degree plan requirements. Prerequisite: Psychology major. Senior standing. Equivalent courses: PSY 4311 (through summer 2022); PSY 4312
PSCH 4313 Forensic Psychology (3-0). An introduction to the work of professionals in the field of forensic psychology. Recommended for Criminal Justice majors.
Equivalent courses: PSY 4313
PSCH 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 2301 or the equivalent, or consent of instructor. Equivalent courses: PSY 4316

PSCH 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 2301 or the equivalent, or consent of instructor. Equivalent courses: PSY 4318
PSCH 4325 Cognitive Psychology (3-0). Introduces the study of human cognitive processes and covers perception, attention, memory, language, problem solving, reasoning, and decision-making. Focuses on basic research and theory in cognitive psychology but also considers their implications for everyday applications such as effective learning and retention, multitasking, and eyewitness testimony. Equivalent courses: PSY 4325
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. Equivalent courses: PSY 4330

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. Equivalent courses: PSY 4335

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 Lower Division 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 Lower Division 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 2315 Lower Division 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 2316 Lower Division 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. Equivalent courses: PSY 2311 (through Summer 2022)
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. Equivalent courses: PSCH 3301
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. Equivalent courses: PSCH 3302

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. Equivalent courses: PSCH 3303
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. Equivalent courses: PSCH 3305

PSY 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. Equivalent
courses: PSCH 3306
PSY 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. Equivalent courses: PSCH 3307

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. Equivalent courses: PSCH 3304 (through Summer 2021), PSCH 3309

PSY 3310 Study 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. Equivalent courses: PSCH 3310

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. Equivalent courses: PSCH 3311

PSY 3312 Human Sexuality (3-0). Fundamentals of human sexuality including biological, behavioral, and cultural aspects of sexuality. Equivalent courses: PSCH 3312

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. Equivalent courses: PSCH 3314

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. Equivalent courses: PSY 2310 (through Summer 2021), PSCH 3315

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. Equivalent courses: PSCH 3316

PSY 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. Equivalent courses: PSCH 4320 (through Summer 2021), PSCH 3320
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. Equivalent courses: PSCH 4199

PSY 4209 Upper Division 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 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. Equivalent courses: PSCH 4209
PSY 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. Equivalent courses: PSCH 4302

PSY 4303 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. Equivalent courses: PSCH 3304 (through Summer 2022)
PSY 4305 Gerontology (3-0). A survey of the issues relating to aging including family dynamics, retirement adjustments, legislation, mental health and physical health. Equivalent courses: PSCH 4305
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. Equivalent courses: PSCH 4302
PSY 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. Equivalent courses: PSCH 4308
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 Equivalent courses: PSCH 4309

PSY 4310 Special Topics (3-0). \({ }^{\text {W }}\) 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. Equivalent courses: PSCH 4310
PSY 4313 Forensic Psychology (3-0). An introduction to the work of professionals in the field of forensic psychology. Recommended for Criminal Justice majors. Equivalent courses: PSCH 4313
PSCH 4312 Community Experience in Psychology (3-0). This course allows
students to gain practical experience with human service agencies. Students are assigned to work with an area agency. May be taken only once to meet degree plan requirements. Prerequisite: Psychology major. Senior standing. Equivalent courses: PSY 4311 (through summer 2022); PSCH 4312

PSY 4316 Emotion and Motivation (3-0). \({ }^{\text {W }}\) QEP MAPPED COURSE. 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. Equivalent courses: PSCH 4316

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. Equivalent courses: PSCH 4318
PSY 4325 Cognitive Psychology (3-0). Introduces the study of human cognitive processes and covers perception, attention, memory, language, problem solving, reasoning, and decision-making. Focuses on basic research and theory in cognitive psychology but also considers their implications for everyday applications such as effective learning and retention, multitasking, and eyewitness testimony. Equivalent courses: PSCH 4325
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. Equivalent courses: PSY 4330

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. Equivalent courses: PSCH 4335

\section*{SCIENCE EDUCATION (SCED/SCER) COURSES}

SCED 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 INDEX
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. Equivalent courses: BIO 3308 (through summer 2022), SCER 3308
SCED 3409 Foundations of Elementary Science II (3-2). 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. Equivalent courses: BIO 3309 (through Summer 2022), SCER 3409
SCER 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. Equivalent courses: BIO 3308 (through summer 2022), SCED 3308
SCER 3409 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. Equivalent courses: BIO 3309 (through Summer 2022), SCED 3409

\section*{SOCIOLOGY (SOC) COURSES}

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.

\section*{SPANISH (SPAN/SPN) COURSES}

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. Equivalent courses: SPAN 1401 (through Summer 2014)
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. Equivalent courses: SPAN 1402 (through Summer 2014)
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. Prerequisites: SPAN 1411 \& 1412. Equivalent courses: SPAN 2301 (through Summer 2014)

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. Prerequisites: SPAN 1411 \& 1412 \& 2311. Equivalent courses: SPAN 2302 (through Summer 2014)

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. Prerequisites: SPAN 1411 \& 1412. Equivalent courses: SPN 3301 (through Summer 2022), SPNS 3301
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. Prerequisites: SPAN 1411 \& 1412.
Equivalent courses: SPN 3302 (through Summer 2022), SPNS 3302
SPAN 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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3303 (through Summer 2022), SPNS 3303

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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPAN 2305 (through Summer 2018), SPN 3304 (through Summer 2022), SPNS 3304

SPAN 3305 Modern Drama (3-0). A study of Hispanic drama of the 19th and 20th centuries. Students read dramas representative of the period and discuss them in oral and written form. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3305 (through Summer 2022), SPNS 3305
SPAN 3308 Studies in Spanish (3-0). In-depth study of specific periods or genres of Hispanic literature and other areas related to Spanish language and culture. Typical topics include Mexican literature; history of the Spanish language; the Medieval period, the Golden Age, Modernism; Spanish-American literature, the Colonial period; Spanish of the Southwest. May be repeated for credit if topic varies. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3308 (through Summer 2022), SPNS 3308

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. Equivalent courses: SPN 3310 (through Summer 2022), SPNS 3310

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. Equivalent courses: SPN 3311 (through Summer 2022), SPNS 3311
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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3314 (through Summer 2022), SPNS 3314

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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3316 (through Summer 2022), SPNS 3316
SPAN 3318 The History of Spanish Art (3-0). This course examines the great periods of Spanish art with its characteristic aesthetics, great masters and principal architectural, sculptural, and pictorial works. This course begins with art of Paleolithic period and ends with two of the great painters of the twentieth century, Picasso and Dali. Special attention will be given to Moorish art as well as the Romanesque, Gothic and Baroque periods. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3318 (through Summer 2022), SPNS 3318
SPAN 3320 Hispanic Literature in Translation (3-0). This course examines masterpieces of Hispanic literature in English translation. The works, representing the best authors of Latin America and Spain, will be chosen from various genres and periods thereby presenting a broad overview of Hispanic culture as reflected in literature. Meets multicultural requirement for noncertification programs. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3320 (through Summer 2022), SPNS 3320

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, 3302 or instructor permission. Equivalent courses: SPN 4301

SPAN 4302 Spanish Golden Age Literature (3-0). A survey of the literary masterworks of the Spanish Golden Age. The students will read and interpret representative texts from the various genres in order to gain a more complete understanding of and appreciation for the literature of the Golden Age. Prerequisite: SPAN 3302. Equivalent courses: SPN 4302 (through Summer 2022), SPNS 4302
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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 4303 (through Summer 2021), SPN 4304 (through Summer 2022), SPNS 4304

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 3302 or consent of instructor.

Equivalent courses: SPN 4307 (through Summer 2022), SPNS 4307
SPAN 4310 Spanish American Literature I (3-0). A survey of major Spanish American authors and works from Pre-Colonial times to XVIII century. Prerequisite: Spanish 3302 or consent of the instructor. Equivalent courses: SPN 4310 (through Summer 2022), SPNS 4310

SPAN 4311 Spanish American Literature II (3-0). A survey of major Spanish American authors and works from XIX century to the present. Prerequisite: Spanish 3302 or consent of the instructor. Equivalent courses: SPN 4311 (through Summer 2022), SPNS 4311

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. Equivalent courses: SPN 4312 (through Summer 2022), SPNS 4312

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. Equivalent courses: SPN 4315 (through Summer 2022), SPNS 4315

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 and 4315. Equivalent courses: SPN 4316 (through Summer 2022), SPNS 4316
SPAN 4327 Readings and Research in Spanish (3-0). Directed studies on specific topics in Spanish language, Spanish literature, and Spanish American literature. May be repeated for credit when the topic varies. Prerequisite: SPN 3302. Equivalent courses: SPN 4327 (through Summer 2022), SPNS 4327
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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3301 (through Summer 2022), SPAN 3301

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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3302 (through Summer 2022), SPAN 3302

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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3303 (through Summer 2022), SPAN 3303

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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPAN 2305 (through Summer 2018), SPN 3304 (through Summer 2022),
SPAN 3304

SPN 3305 Modern Drama (3-0). A study of Hispanic drama of the 19th and 20th centuries. Students read dramas representative of the period and discuss them in oral and written form. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3305 (through Summer 2022), SPAN 3305

SPN 3308 Studies in Spanish (3-0). In-depth study of specific periods or genres of Hispanic literature and other areas related to Spanish language and culture. Typical topics include Mexican literature; history of the Spanish language; the Medieval period, the Golden Age, Modernism; Spanish-American literature, the Colonial period; Spanish of the Southwest. May be repeated for credit if topic varies. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3308 (through Summer 2022), SPAN 3308

SPN 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. Equivalent courses: SPN 3310 (through Summer 2022), SPAN 3310

SPN 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. Equivalent courses: SPN 3311 (through Summer 2022), SPAN 3311
SPN 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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3314 (through Summer 2022), SPAN 3314
SPN 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. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3316 (through Summer 2022), SPAN 3316
SPN 3318 The History of Spanish Art (3-0). This course examines the great periods of Spanish art with its characteristic aesthetics, great masters and principal architectural, sculptural, and pictorial works. This course begins with the rock art of Paleolithic period and ends with two of the great painters of the twentieth century, Picasso and Dali. Special attention will be given to Moorish art as well as the Romanesque, Gothic and Baroque periods. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3318 (through Summer 2022), SPAN 3318
SPN 3320 Hispanic Literature in Translation (3-0). This course examines masterpieces of Hispanic literature in English translation. The works, representing the best authors of Latin America and Spain, will be chosen from various genres and periods thereby presenting a broad overview of Hispanic culture as reflected in literature. Meets multicultural requirement for non-certification programs. Prerequisite SPAN 1411 \& 1412. Equivalent courses: SPN 3320 (through Summer 2022), SPAN 3320

SPN 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. SPN 3302 or instructor permission. Equivalent courses: SPAN 4301

SPN 4302 Spanish Golden Age Literature (3-0). A survey of the literary masterworks of the Spanish Golden Age. The students will read and interpret representative texts from the various genres in order to gain a more complete understanding of and
appreciation for the literature of the Golden Age. Prerequisite: SPN 3302. Equivalent courses: SPN 4302 (through Summer 2022), SPAN 4302
SPN 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. Prerequisite SPAN 1411 \& 1412 Equivalent courses: SPN 4303 (through Summer 2021), SPN 4304 (through Summer 2022), SPAN 4304
SPN 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: SPN 3302 or consent of instructor. Equivalent courses: SPN 4307 (through Summer 2022), SPAN 4307
SPN 4310 Reading in Spanish American Literature I (3-0). A survey of major Spanish American authors and works from Pre-Colonial times to XVIII century. Prerequisite: SPN 3302 or consent of the instructor. Equivalent courses: SPN 4310 (through Summer 2022), SPAN 4310
SPN 4311 Spanish American Literature II (3-0). A survey of major Spanish American authors and works from the XIX century to the present. Prerequisite: SPN 3302 or consent of the instructor. Equivalent courses: SPN 4311 (through Summer 2022), SPAN 4311

SPN 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. Equivalent courses: SPN 4312 (through Summer 2022), SPAN 4312

SPN 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. Equivalent courses: SPN 4315 (through Summer 2022), SPAN 4315

SPN 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 and SPN 4315. Equivalent courses: SPN 4316 (through Summer 2022), SPAN 4316
SPN 4327 Readings and Research in Spanish (3-0). Directed studies on specific topics in Spanish language, Spanish literature, and Spanish American literature. May be repeated for credit when the topic varies. Prerequisite: SPN 3302. Equivalent courses: SPN 4327 (through Summer 2022), SPAN 4327

\section*{STATISTICS (STAT) COURSES}

STAT 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 regressioncorrelation analysis. Prerequisite: Math 1332, or 1314, or 1342 or permission of instructor. Equivalent courses: NRM 3308 (through Summer 2022), ANSC 3308 (through Summer 2022)

STAT 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 ANIVA, 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. Equivalent courses: NRM 5412 (through Summer 2022)
STAT 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. Equivalent courses: NRM 5413 (through Summer 2022)

\section*{SUSTAINABLE RANCH MANAGEMENT (RCH) COURSES}

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.

\section*{THEATRE (THEA) COURSES}

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 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? Equivalent courses: THEA 1302 (through Summer 2014)

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. Equivalent courses: THEA 1352 (through Summer 2016)

THEA 1351 (DRAM 1351) Acting I (2-2). A practical laboratory of the principles and technique of acting for the stage. Equivalent courses: THEA 1301 (through Summer 2014)

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 (DRAM 1342) Costume Construction (2-2). A beginning overview of the vocabulary and basic sewing methods of theatrical costuming.
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 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 2330 Theatre Graphics (3-0). Theatre Graphics is an introductory course on the fundamentals of drafting for the theatre, Students learn hand drafting, Vectorworks 2020, and other similar software. Projects will consist of students translating existing draftings into 2-D and 3-D CAD drafting as well as translating a complete set of plates from an existing design. Students are expected to complete their projects largely outside of class.

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. Equivalent courses: THEA 2303 (through Summer 2014)

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 3308 Acting III: Styles (2-2). An advanced study of acting styles and periods for the stage. Prerequisite: THEA 1352. Equivalent courses: THEA 4306 (through Summer 2013)

THEA 3309 Stage Make-up (1-2). \({ }^{\text {. }}\) 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. Equivalent courses: THEA 4303 (through Summer 2006)

THEA 3319 Producing (2-2). A comprehensive study of the theory and practice of film/video production.
THEA 3320 Repertory II (3-0). Building on the foundations of Repertory I (THEA 3303) this course offers practical experience 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 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 half0hour comedy, or a web series. Screenwriting I or instructor permission required to enroll.
THEA 3330 Fiction Production (3-0). Students serve as crew in the preproduction and production phases of a short film project. Hands on workshop class designed to simulate the demands and standards of a professional set.

THEA 3331 Documentary Production (3-0). Students will direct the preproduction and production phases of a short documentary film project. Hands on workshop class designed to simulate the demands and standards of a professional production.
THEA 3332 Fiction Post-Production (3-0). Students will serve as sound and video editors in the post production phase of a short film project. Hands on workshop class designed to simulate the demands and standards of a professional production.
THEA 3333 Documentary Post-Production (3-0). Students will serve as sound and video editors in the post production phase of a short documentary film project. Hands on workshop class designed to simulate the demands and standards of a professional production.
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 4301 Shakespeare (3-0). Students learn to decode the Shakespeare's heightened language using scansion, reference materials, and performance techniques.

THEA 4304 Directing II (2-1). W 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 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 INDEX
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 oneperson 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 4310 Audition Techniques (3-0). Students learn auditioning techniques and etiquette through exercises and simulated classroom auditions. Students also learn how to record and submit video auditions, create a professional acting resumé, and what makes a strong headshot.

THEA 4330 Cinematography (3-0). Students will learn the specifics of motion picture cinematography, lenses, and lighting as addressed by the camera department. While directors and producers have a general understanding of image-making, cinematographers are image creators. This class approaches production from the cinematographer's unique point of view. Topics covered include lighting, metering, prime lenses, sensors, and moving the camera.

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.

\section*{WOMEN'S STUDIES (WS) COURSES}

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.```


[^0]:    *The academic standing of entering probationary students is "probation." After successful completion of 12 semester credits 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

[^1]:    These four courses must be taken in the first 12 hours:
    EDUA 6375 Foundations of Educational Technology
    EDUA 6376 Inquiry Based Research Methods
    EDUA 6377 Instructional Design
    EDUA 6382 Basic Application of Media and Technology
    Required Courses:
    EDUA 6380 Special Topics in Educational Technology
    EDUA 6378 Integration of Technology into the Curriculum
    EDUA 6379 Implementation of Educational Technology Program in the Educational Settings (prerequisite ED 6378)
    EDUA 6381 Critical Issues in Educational Technology
    EDUA 7300 Advanced Applications of Media and Technology
    EDUA 6383 Educational Technology Capstone with Portfolio Development (16-week course)
    Additional Degree Requirements: File graduation and portfolio defense application and successfully defend the Portfolio in last semester of course work. Students must consult with advisor in Ed Instructional Technology before enrolling each semester.

