2025-26 Undergraduate Catalog

Directory

Selected Administrative Offices

Requests for information should be directed to the offices shown below.

Office	Telephone (Area Code 325)
Academic Deans	
Archer College of Health and Human Services	486-6258
College of Arts and Humanities	942-2162
College of Education	942-2212
College of Graduate Studies and Research	942-2169
College of Science and Engineering	942-2470
Norris-Vincent College of Business	942-2337
Alumni Association	942-2122
Athletics	942-2091
Center for Academic Excellence	942-2595
Advising for:	
Archer College of Health and Human Services	
College of Arts and Humanities	
College of Science and Engineering	
Center for Career and Professional Success	942-2255
Center for International Studies	942-2083
Educator Preparation Information Center	942-2209
Academic Advising for Undergraduate and Graduate Certification Degree Plans	
Educator Certification Information	
Field Experience Information	
External Affairs	942-2116
Admissions	942-2041
Dual Credit	942.2179
Financial Aid and Scholarships	942-2246
Freshman College	942-2595
Early Alert	
GS 1181: Freshman Seminars	
Office of Undeclared Advising	
Supplemental Instruction	
SWAG: Students with a Goal	
Academic Support Center	
Honors Program	942-2722
Housing and Residential Programs	942-2035
IT Service Center (Help Desk)	942-2911
Kay Bailey Hutchison Center for Cyber Intelligence, Innovation, and Security Studies	486-6682
Library	942-2222
Access Services/Circulation	486-6523
Mayer Museum	942-2785
West Texas Collection	942-2164
Multicultural Center	942-2729
Office of Accountability	942-2259
Office of Development and Alumni Relations	942-2116
Office of the Dean of Students	942-2047
Office of the President	942-2073
Office of the Provost and Vice President for Academic Affairs	942-2165
Office of Title IX Compliance	942-2022
Office of the Vice President for Student Affairs	942-2061
Registrar's Office	942-2043
Sponsored Projects	942-2530
Student Accounts/Bursar	942-2008
Student Affairs	942-2061
Center for Student Involvement	942-2062
Student Disability Services	942-2047
Student Government Association	942-2063
Student Life	942-2062
Student Transitions	942-2061
University Recreation and Intramurals (UREC)	942-2034
Veterans Educational and Transitional Services (VETS)	486-8387
Testing Center	942-2624
Writing Center	486-6173

Accreditation

Angelo State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, masters, and doctorate degrees. Questions about the accreditation of Angelo State University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

Note: The Commission should be contacted only if there is evidence that appears to support the institution's significant non-compliance with a requirement or standard. Normal inquiries about Angelo State University, such as admission requirements, financial aid, educational programs, etc., should be addressed directly to Angelo State University and not to the Commission's office.

Angelo State University, through its Norris-Vincent College of Business, is internationally accredited by the Association to Advance Collegiate Schools of Business (AACSB) to offer the following degree programs: (1) At the graduate level, the Master of Business Administration (M.B.A.), the Master of Professional Accountancy (M.P.Ac.), the Master of Science of Business Data Science and Analytics (M.S.), and the Master of Science of Hospital and Health Care Facilities Administration (M.S.) and (2) At the undergraduate level, the Bachelor of Business Administration (B.B.A.) degree.

Angelo State University's educator preparation programs, through its College of Education, are approved by the Texas Education Agency's State Board for Educator Certification (SBEC) to prepare individuals as educators in Texas elementary, middle, and high schools. The Department of Teacher Education's Early Childhood to Sixth Grade educator preparation program is a nationally recognized elementary teacher preparation program by the Association for Childhood Education International, and the special education courses are nationally recognized by the Council for Exceptional Children.

The Bachelor of Science in Civil Engineering (B.S.C.E). program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Civil and Similarly Named Engineering Programs Criteria. The Bachelor of Mechanical Engineering (B.S.M.E.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Mechanical and Similarly Named Engineering Programs Criteria.

Angelo State University is an accredited institutional member of the National Association of Schools of Music.

The baccalaureate degree program in nursing/master's degree program in nursing, and the postgraduate A.P.R.N. certificate program at Angelo State University are accredited by the Commission on Collegiate Nursing Education (CCNE), 655 K. Street NW, Suite 750, Washington, DC 20001, 202-887-6791.

In addition, all nursing programs have full approval status by the Texas Board of Nursing.

> Texas Board of Nursing, 1801 Congress Avenue, Suite 10-200, Austin, TX 78701, Office: 512-305-7400, Fax: 512-305-7401,
> Website: -https://www.bon.texas.gov/

The Bachelor of Social Work (B.S.W.) and the Master of Social Work (M.S.W.) degrees at Angelo State University are accredited by the Council on Social Work Education (CSWE): 333 John Carlyle Street, Suite 400, Alexandria, VA 22314, 703-683-8080, info@cswe.org.

The Doctor of Physical Therapy program at Angelo State University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Avenue, Suite 100, Alexandria, VA 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org.

Statement on Equal Educational Opportunity

Angelo State University is open to all persons eligible for admission as students regardless of race, color, religion, sex, age, national origin, mental or physical disability, or Vietnam Era or Special Disabled Veteran status. All students admitted to the university are treated without discrimination in regard to their participation in university educational programs or activities. The university is an equal opportunity employer and no applicant or employee will be discriminated against because of race, color, religion, sex, age, national origin, mental or physical disability, or Vietnam Era or Special Disabled Veteran status in regard to employment or during the course of employment in the institution. The university does not discriminate on the basis of sex or disability in its educational programs. Any student with inquiries should contact the Office of Title IX Compliance, ADMIN 210, at 325-942-2022.

Notice of Non-Discrimination

The University does not tolerate discrimination or harassment based on or related to sex, race, national origin, religion, age, disability, protected veteran status, genetic information, or other protected categories, classes, or characteristics. For ASU's full Notice of Non-Discrimination which addresses how discrimination may be reported, please visit https://www.angelo.edu/non-discrimination.

Notice

The policies, regulations, procedures, and fees in this Catalog are subject to change without prior notice, if necessary, to keep University policies in compliance with State and federal laws, the rules and regulations of the Board of Regents, The Texas Tech University System, or the educational objectives of the University. 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 Angelo State University.

Table of Contents

Directory ... 2
Accreditation ... 3
Statement on Equal Educational Opportunity ... 4
Notice of Non-Discrimination ... 4
Notice ... 4
General Information ... 8
History of the University ... 9
City of San Angelo ... 9
Admission to the University ... 10
Tuition and Fees ... 15
Housing Information and Regulations ... 22
Student Financial Assistance ... 24
Inventory of Academic Programs ... 26
Academic Organization ... 29
Archer College of Health and Human Services ... 30
Department of Health Science Professions ... 31
Health Science Professions ... 31
Integrated ... 33
Health Science Professions in Physical Therapy and Allied Health Professions/Athletic Training ... 33
Department of Kinesiology ... 35
Kinesiology ... 35
Integrated Kinesiology and Coaching, Sport, Recreation and Fitness Administration ... 38
Exercise Science ... 40
Department of Nursing ... 42
Nursing ... 42
Department of Psychology ... 47
Psychology ... 47
Department of Social Work and Sociology ... 50
Social Work ... 50
Sociology ... 51
College of Arts and Humanities ... 52
Department of Communication and Mass Media ... 54
Communication ... 54
Mass Media ... 57
Natalie Zan Ryan Department of English and Modern Languages ... 59
English ... 59
Integrated English ... 60
Modern Languages ... 63
Spanish ... 63
Dr. Arnoldo De León Department of History ... 65
History ... 65
Department of Political Science and Philosophy ... 68
Philosophy ... 68
Political Science ... 69
Department of Security Studies and Criminal Justice ... 70
Border and Homeland Security ... 70
Border Security ... 71
Intelligence and Analysis ... 72
Criminal Justice ... 74
Department of Visual and Performing Arts ... 76
Art ... 76
Studio Art ... 76
Music ... 80
Theatre ... 86
Additional Programs ... 89
Applied Arts and Sciences ... 89
Interdisciplinary Studies ... 90

College of Education 91
Department of Teacher Education 92
Teacher Education 92
Early Childhood to Grade 6 Generalist, Teacher Certification 92
Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification 93
Generalist Grades 4-8, Teacher Certification 94
College of Science and Engineering 95
Department of Agriculture 96
Agriculture 96
Animal Science 96
Agricultural Science and Leadership 97
Agriculture Science and Leadership Teacher Certification 98
Agriculture Science and Communications 99
Agribusiness 100
Integrated Agribusiness/Business Administration 101
Food Animal Science and Marketing 102
Natural Resource Management 103
Department of Biology 104
Biology 104
Integrated Biology 105
Biology Major with Life Science Secondary Teacher Certification 106
Department of Chemistry and Biochemistry 108
Chemistry 108
Department of Computer Science 110
Computer Science 110
Artificial Intelligence 111
Cybersecurity 112
David L. Hirschfeld Department of Engineering 113
Engineering 113
Civil Engineering 114
Mechanical Engineering 115
Department of Mathematics 116
Mathematics 116
Department of Physics and Geosciences 122
Geoscience 122
Physics 123
Norris-Vincent College of Business 124
Department of Accounting, Economics and Finance 125
Accounting 125
Integrated Professional Accountancy 126
Economics 127
Finance 128
Integrated Finance/Business Administration 129
Department of Management and Marketing 130
International Business 130
Integrated International Business/Business Administration 131
Management 132
Integrated Management/Business Administration 133
Management Information Systems 134
Integrated Management Information Systems/Business Administration 135
Marketing 136
Integrated Marketing/Business Administration 137
Commercial Aviation 138
Department of Aerospace Studies 142
Aerospace Studies 142
Air Force Reserve Officer Training Corps (AFROTC) 142
Freshman College 144
Exploratory Tracks 144
Center for International Studies 146
Testing Center 147

Honors Program 148
University Studies Program 150
Student Affairs 151
Teacher Certification 158
Undergraduate Academic Regulations 161
Bachelor's Degree Requirements 176
Core Curriculum 182
Texas Common Course Numbering System 186
Academic Minors 187
Academic Services 191
Freshman College 192
Writing Center 193
Course Descriptions 194
Board of Regents 269
University Administration 269
The Faculty 273
Index 291

General Information

Angelo State University

Angelo State University is a dynamic institution of higher education long recognized for its strong academic programs, its technological sophistication and its nurturing environment, which combine to help all students—including many first-generation college attendees—attain their full potential.

As a comprehensive university and a member of the Texas Tech University System, Angelo State has built a national reputation, being selected by the prestigious Princeton Review as one of the "Best Colleges" nationally every year since 2010. Princeton Review is the only major U.S. college guide that surveys students for their opinions before publishing its college recommendations, and ASU is one of only three state-supported institutions in Texas to make the list each year since 2010. Since 2010, ASU has also been recognized by the U.S. Department of Education as a Hispanic Serving Institution. In 2018, ASU joined the annual Colleges of Distinction listing, and in 2023, ASU earned the prestigious Seal of *Excelencia*.

With a full range of academic programs, as well as a vibrant Honors Program and an active Center for International Studies, ASU provides educational opportunities that prepare students for successful careers or for entry into graduate and professional schools, such as medicine and law. Honors students who are eligible for the Honors Advantage Program and interested in going to the Texas Tech University (TTU) School of Law or TTU Health Sciences Center School of Medicine can receive an early decision of their acceptance during their junior year. Graduates completing Angelo State's pre-med program over the last four decades have an average 70% acceptance rate to medical school, compared to a statewide average of 36%.

Academically, the university is organized into six colleges: Archer College of Health and Human Services; Norris-Vincent College of Business; Arts and Humanities; Education; Science and Engineering; and Graduate Studies and Research—as well as 24 academic departments. Those departments offer 49 undergraduate degrees, 30 master's degrees and four doctoral degrees with more than 100 majors and concentrations. Additionally, ASU provides options for a variety of pre-professional and integrated bachelor's/master's degree programs.

In addition to strong academic offerings, ASU provides an ultramodern, 276-acre campus that offers an attractive and safe setting for a college education. ASU's campus facilities are valued at over $1.2 billion and include award-winning residence halls, state-of-the-art, high-tech academic facilities, the Junell Center/Stephens Arena, one of the top facilities in all of NCAA Division II athletics, and the nationally recognized Houston Harte University Center, the focus of campus student life.

ASU's Management, Instruction and Research (MIR) Center comprises 6,000 acres of range and farm land that serves as a "laboratory" for agriculture students. Facilities at the site include the Food Safety and Product Development Laboratory, the Mayer-Rousselot Agriculture Education Training Center, the G. Leon Holland Arena and a 2,800-square-foot greenhouse.

ASU also provides the financial resources to help students attain their college education while keeping the cost within reach of the average family. Supported by multiple endowments, ASU offers more than 600 scholarship programs to eligible students, who can earn up to $52,000 over four years. Over 80% of ASU students receive some form of gift aid, including scholarships and grants, that does not have to be repaid. About 50% of ASU students graduate debt free.

Beyond the classroom, ASU students have a wide variety of opportunities to broaden their horizons and strengthen their résumés. With more than 100 student organizations, a thriving intramurals and competitive club sports programs, exclusive recreational facilities and numerous on-campus social events to choose from, students can connect with others who have similar interests. ASU leadership and career development programs allow students to develop skills that will help them in their careers and in life. The Center for International Studies allows students to complement their campus education with study abroad programs in Europe, Asia and Central and South America.

The numerous academic and extracurricular opportunities are complemented by a highly competitive intercollegiate athletics program with men's teams in six sports and women's teams in nine sports. The Rams and Rambelles compete in NCAA Division II and the Lone Star Conference. Over the years, the institution has claimed five national titles, the most recent being the NCAA D-II Baseball Championship in 2023 and the 2010 NCAA D-II Women's Track and Field Championship. Our track and field teams have won more than 70 individual and relay national championships, and more than a dozen Rams football players have gone on to play in the NFL.

Success at ASU, whether in the classroom, in student organizations or on playing fields, translates into success in life. ASU graduates have headed major national corporations, played in Super Bowls, discovered new animal species, anchored national newscasts, conducted groundbreaking medical research, held top positions in the nation's military, and made numerous contributions to their communities and society.

Mission, Vision and Values Statements

Angelo State University is a member of the Texas Tech University System.

Mission

Angelo State University provides highly competitive graduates to the global marketplace by delivering quality programs in a values-focused and student-centered teaching and learning environment.

Vision

By the end of this decade, ASU will be known as an innovative leader in driving educational, cultural, and economic initiatives to meet the needs, face the challenges, and grasp the opportunities for our region, state, and the global community.

Values

- Integrity | Integridad
- Diversity & Inclusion | Diversidad & Inclusión
- Significance | Impacto
- Community | Comunidad
- Commitment | Compromiso

Reviewed and approved by the Board of Regents, Texas Tech University System, May 13, 2021. Approved by the Texas Higher Education Coordinating Board, June 2, 2021.

History of the University

Angelo State University was created as Angelo State College in 1965 by an act of the 58th Session of the Texas Legislature in 1963, but its origins can be traced to an unsuccessful 1923 bid to be selected as the home of Texas Technological College. When Lubbock was chosen as the site for Texas Tech, the citizens of San Angelo decided to create their own college, even if they had to pay for it themselves. Funded by local contributions and a self-imposed city tax, San Angelo Junior College opened its doors in 1928 on North Oakes Street near downtown San Angelo.

When classes began, 112 students enrolled with city students paying $75 tuition and out-of-town students $115. In May 1929, six students walked across the stage in the institution's first commencement exercise. Today, ASU has more than 50,000 alumni around the globe. In 2007, ASU became a member of the Texas Tech University System.

Academics have always been important at Angelo State, even when the school was known as San Angelo College, which as early as 1936 was one of the few junior colleges accredited by the Southern Association of Colleges and Schools, or SACS. The voters of Tom Green County in 1945 created a County Junior College District and elected the first Board of Trustees. In 1947, the first building was constructed on the present campus, which today encompasses 276 acres.

The citizens of San Angelo never lost the dream of having a four-year college in their community and worked diligently to accomplish that goal. That dream became a reality, effective Sept. 1, 1965, when authority for the institution was transferred from the Board of Trustees of the junior college to the Board of Regents, State Senior Colleges, later the Texas State University System. In May 1967, the first baccalaureate degrees were awarded. The name of the institution was changed to Angelo State University in May 1969.

The College of Graduate Studies and Research was authorized by the Board of Regents on May 15, 1970, and approved by the Texas Higher Education Coordinating Board on Oct. 19, 1970. The first graduate students were enrolled in the fall of 1971.

By 1991, ASU was receiving national attention, being recognized by U.S. News and World Report as one of the nation's up-and-coming universities.

On September 1, 2007, the university became a member of the Texas Tech University System. Presidents of the institution have been Felix E. Smith, 1928-38; Wilson H. Elkins, 1938-48; John A. Guinn, 1948-50; Brian Wildenthal, 1950-52; Rex F. Johnston, 1952-54; Raymond Cavness, 1954-67; Lloyd D. Vincent, 1967-94; E. James Hindman, 1994-2007; Joseph C. Rallo, 2007-12; and Brian J. May, 2012-2020.

City of San Angelo

San Angelo is the center of a thriving community of 100,000 and the city nearest the geographic center of Texas. For some, San Angelo is the true heart of Texas. For others, it is where Central Texas and the Hill Country meet West Texas. Either way, it is a community of genuine, big-hearted and hard-working people who are proud of their Texas heritage.

San Angelo has a rich and culturally diverse history. Though the city owes its birth to the establishment of Fort Concho along the Concho River in 1867, various Indian tribes, as well as Spanish conquistadors and priests, traversed the area for centuries before that. They were followed by buffalo soldiers and pioneer ranchers, who opened the way for merchants, bankers and educators in San Angelo and Tom Green County. This diverse heritage is celebrated annually through the Juneteenth Celebration, Fiestas Patrias, Diez y Seis de Septiembre festivities, and Frontier Day at Fort Concho National Historic Site, as well as Christmas at Old Fort Concho. And, in honor of Independence Day, the community comes together for a grand celebration that includes a patriotic pops concert and fireworks display July 3 at the River Stage on the banks of the Concho River downtown and a July 4 fireworks show over Lake Nasworthy. The annual rodeo and livestock show in the spring and the roping fiesta each fall pay homage to the region's ranching roots.

San Angelo is also a cultural paradise. The San Angelo Symphony, San Angelo Civic Ballet, and Angelo Civic Theatre offer a variety of programs annually. The San Angelo Performing Arts Campus (SAPAC) brings even more choices for entertainment with stage performances by local companies, San Angelo Broadway Academy, and traveling Broadway productions, such as "Legally Blonde." The San Angelo Museum of Fine Arts with its distinctive architecture provides a wonderful setting for exhibits by some of Texas' finest artists. Historical displays at Fort Concho and the Railway Museum of San Angelo attract visitors from throughout the nation. Downtown boasts a series of historical murals and public art in the most unexpected places. The Cactus Hotel is a local landmark, which serves as the center of numerous cultural activities. Visitors along the River Walk enjoy the prize-winning sculpture of the "Pearl of the Conchos," a West Texas mermaid holding a symbolic Concho Pearl, a pink gem unique to the waters of the Concho River around San Angelo.

Natural beauty is also found with the International Water Lily Garden in full color between March and September. It is complemented by the Sunken Garden, Rio Concho Garden, Terrace Garden and Gazebo Garden, all part of the city's system of municipal parks. The River Walk along the Concho provides water displays, dramatic lighting and a four-mile trail for enjoying nature.

Lake Nasworthy—along with O.C. Fisher Reservoir and Twin Buttes Reservoir—provides residents and visitors a variety of water sport opportunities, from fishing to water skiing. Adjacent to Fisher Reservoir, San Angelo State Park sits astride the junction of four ecological zones, making the park one of the most diverse natural preserves in all of Texas.

San Angelo is home to Goodfellow Air Force Base, as well as a strong business community that includes such national corporations as Goodyear and Ethicon. Additionally, San Angelo is a regional medical center.

Overall, San Angelo has all the advantages of a large city—numerous civic and cultural events, ample shopping, varied entertainment options, a solid business community and more—along with all the charm of a small town, ranging from safe streets to friendly people. That combination helps make San Angelo an ideal environment for a college education.

Admission to the University

Angelo State University adheres to high standards of academic excellence and admits students in accordance with their level of academic preparation without regard to race, color, sex, age, religious commitment, or national origin. Inquiries about admission, application for admission, transcripts, and other admissions documentation should be addressed to the Office of Admissions, Angelo State University, ASU Station #11014, San Angelo, TX 76909-1014. The office is located in the Dorsey B. Hardeman Student Services Center, 2601 W. Ave. N, San Angelo, TX 76909. You may also contact us by phone at 325-942-2041 or email at admissions@angelo.edu. Application for admission is by online submission on the Admission to Angelo State website. Admission to the University does not guarantee admission to a particular college or academic program. For information about enrolling as an international student refer to page 14, International Student Admissions.

Admission Requirements

Undergraduate Programs

Angelo State University commits itself to the equal consideration of all qualified applicants for admission without regard to race, color, religion, sex, age, or national origin, and without regard to disabilities as required by the Americans with Disabilities Act of 1990. Students who meet the stated requirements below may reasonably expect to be admitted. However, additional factors may be considered in determining the applicant's admission. The admission of some applicants may be deferred in order to ensure sufficient resources to serve all enrolled students effectively.

I. Freshman Admission

Individuals who have graduated from an accredited high school or homeschool may be eligible for admission to Angelo State University when they have submitted all of the following items to the Office of Admissions:

- Application for Admission.
- Scores on the American College Test (ACT) or the Scholastic Assessment Test (SAT) (scores cannot be more than five years old). *Unless applicant chooses Test Optional Admissions*.
- Current non-refundable application fee or eligible fee waiver.
- Official transcripts of high school records.

Assured Admission of Freshmen Applicants

Assured admission is granted to applicants based on satisfaction of the following requirements: a) graduate from an accredited high school or home school with a Texas Recommended or Distinguished Achievement Program diploma or the Endorsements or Distinguished level of Achievement on the Foundation High School Program or its equivalent; and b) present the combination rank in class and minimum test scores indicated below. If a high school transcript does not include a class rank, an equivalent rank will be calculated by Undergraduate Admissions.

High School Class Rank	*Test-Optional*	*Test Score Required*	
	High School GPA	ACT Score	SAT Score ***
Top 25% *	No minimum	No minimum	
Next 25% **	2.50 or higher	17	920
3rd and 4th Quarter	File review	File Review	

* Recommended program or the Distinguished Level of Achievement on the Foundation High School program.

** Recommended or Distinguished Achievement program or the Endorsements or Distinguished level of Achievement on the Foundation High School program or its equivalent.

*** Redesigned SAT scores include evidence-based reading & writing and mathematics. Both SAT tests will use the combined maximum score of 1600.

Assured admission is also granted to applicants who have: a) graduated from an accredited high school or home school with a Texas Recommended or Distinguished Achievement Program diploma or the Endorsements or Distinguished level of Achievement on the Foundation High School Program or its equivalent; and b) completed at least six (6) semester credit hours of dual credit through Angelo State University with a 3.00 GPA or higher.

Assured admission may also be granted to applicants graduating with the Foundation High School Program, or equivalent, other programs in transition, those not on a Texas High School Diploma Program but who meet one of the requirements listed below.

a. Satisfy ACT's College Readiness Benchmarks on the ACT assessment.
b. Satisfy SAT College Readiness Benchmarks.

Private students must submit the Texas Private High School Certification Form published by and made available on the Texas Higher Education Coordinating Board website.

Admission File Review of Freshman Applicants

Students who do not meet assured admission will have their file reviewed to determine admissibility and potential for success at Angelo State University. Consideration factors may include, but are not limited to, the applicant's: academic record, dual credit course completion, class rank, standardized test scores, first-generation status, bilingual proficiency, extracurricular activities, community activities, region of residence, socioeconomic background, financial status of the school district, the school district's performance level on the TEA's accountability criteria, responsibilities such as employment or helping to rear children, resident of a rural or urban area or a resident of a central city or suburban area, attendance in a school under a court ordered desegregation plan, commitment to a particular field of study, personal interview, admission to a comparable accredited out-of-state institution, or any other consideration the university considers necessary to accomplish the university's stated mission.

II. General Equivalency Diploma (GED) Admission

Individuals who are not high school graduates but who have submitted evidence of a high school equivalency diploma from the Texas Education Agency (or equivalent agency in other states) may be eligible for admission to Angelo State University when they have submitted all of the following items to the Office of Admissions:

- Application for Admission
- Scores on the ACT or the SAT (scores cannot be more than five years old).
- Current non-refundable application fee or eligible fee waiver.

These applicants must meet one of the following admission requirements:

a. Satisfy the College Readiness Benchmarks on the ACT assessment.
b. Satisfy SAT College Readiness Benchmarks.

III. Dual Credit Admission

Dual credit admission is granted to applicants who are high school or home school students and meet the requirements of the Presidential Scholars Dual Credit Program intending to take classes on a high school campus or courses offered online as part of an agreement with a partnering high school or home school..

Students granted enrollment to take academic courses under the Presidential Scholars Dual Credit Program will not be considered as having officially been admitted to, nor matriculated at, Angelo State University until they graduate from high school and enroll in the university as degree-seeking student.

Presidential Scholars Program

A high school student will be eligible for admission to Angelo State University under the Presidential Scholars Dual Credit Program when the applicant has met all admission requirements and has on file the following items:

- Dual Credit/Concurrent Enrollment Application for Admission.
- Official transcripts of high school records.
- Dual Credit Agreement form.

Presidential Scholars Admission Requirements

To be eligible for admission to Angelo State University under the Presidential Scholars Dual Credit Program, high school students must meet one of the following admission requirements:

a. Have a "B" (3.00 or 80) overall high school average.
b. Be in the top half of class.
c. Recommended by the high school principal or high school counselor.

IV. Transfer Student Admission

Students transferring from an accredited college or university will be eligible for admission to Angelo State University when they have met all admission requirements and have on file in the Office of Admissions the following items:

- Application for Admission.
- Transcripts of all college or university work.
- Current non-refundable application fee or eligible fee waiver.

Transfer Student Assured Admission

Transfer students from an accredited college or university who are eligible to return to the institution most recently attended may be admitted if their cumulative grade point average on all transferable college level work attempted meets the following criteria and the other designated requirements:

Total College Level Semester Credit Hours Attempted	Minimum Cumulative Grade Point Average and Other Requirements
1-11	2.00 and meet admission criteria for regular admission for high school graduates
12 or more	2.00

a. Students who are on academic suspension at any institution attended are ineligible for admission to Angelo State University until the period and terms of the suspension have been satisfied and the above criteria have been met.
b. When calculating a transfer grade point average, grades of "A", "B", "C", "D", and "F" are computed as recorded. Grades of "WF" are averaged as "F". When a course has been repeated, the last grade stands and is used for GPA calculations. Grades in non-transferable, developmental, and some technical/vocational courses are disregarded.
c. Students meeting all admission requirements who are currently enrolled in another college or university and are unable to provide current transcripts of all previous work may appeal their admission to the Office of Admissions. It is the responsibility of the students to provide the official transcript to the Office of Admissions or be subject to forced withdrawal. Transfer courses will only be entered after receiving official transcripts.

Admission File Review of Transfer Applicants

Transfer applicants who do not meet the admission GPA (grade point average) requirement will have their records reviewed to evaluate other factors that could predict success at Angelo State University. The transfer office will review applicants holistically and present candidates to the Director of Admissions for a final admissions decision. The review will consider academic information such as the types of courses taken and the pattern of progress, as well as course work taken leading toward the major. Consideration will be given to students who have earned an associate's degree.

V. Former Student Admissions

All former undergraduate Angelo State University students who did not attend one long semester (fall or spring) must re-apply for undergraduate admission to re-enter ASU. They must submit:

- An application for undergraduate admission,
- Current non-refundable application fee or eligible fee waiver.

Former ASU students who attend another college or university after leaving ASU will be considered as transfer students and must meet the transfer student requirements above. Students must submit official transcripts of all college or university course work since their last enrollment at ASU. The cumulative grade point average of all official transcripts that were not previously received in the Office of Admissions must be a minimum 2.00.

Students who leave ASU on scholastic probation may be re-admitted on scholastic probation. If a student was suspended from ASU, he or she may return on probationary status after complying with the suspension requirements.

VI. Transient Admissions

Applicants who have completed college work and are working toward a degree at another college or university are eligible to be considered for transient admission. Applicants who desire to register for any term may be considered for enrollment without regard to the transfer student requirements above, but must not be on academic suspension from another institution.

Transient students are required to submit:

- An application for undergraduate admission,
- Current non-refundable application fee or eligible fee waiver,
- Proof of good standing with their current institution

VII. Post-baccalaureate Admissions

Post-baccalaureate admission is granted to students who have been awarded a bachelor's degree and do not want to obtain another undergraduate degree.

Post-baccalaureate students are required to submit:

- An application for undergraduate admission,
- Current non-refundable application fee or eligible fee waiver,
- Proof of baccalaureate degree

ASU undergraduate students who are in good standing and seek post-baccalaureate admission for the term directly following their graduation need to submit a Continuing Education Verification Form for admission.

VIII. Non-Degree Seeking Students

Admission is granted to students interested in enrolling in courses pertaining to their personal interest, or those interested in receiving licensure.

Non-Degree Seeking Students are required to submit:

- An application for undergraduate admission,
- Current non-refundable application fee or eligible fee waiver,
- High school transcript or GED (for those who did not previously attend college),
- Most recent or current college transcript.

In addition:

- Applicants who have been denied admission as a degree-seeking student or who missed the deadline for submitting a degree seeking application will not be considered for enrollment as a non-degree student.
- Students who are not in good academic standing from Angelo State University or any other institution are not eligible to enter as a non-degree student.
- Acceptance in this category does not constitute acceptance to a degree granting program.
- Non-degree seeking students must adhere to the same academic rules that govern degree seeking students (i.e., application deadlines, fees, drop/add, withdrawals, grading, retention policies, etc.)
- Non-degree seeking students are limited to 24 semester credit hours for undergraduate level courses.
- Upon completion of 24 semester credit hours the student must be admitted as a degree-seeking student to continue at Angelo State University.
- Students seeking reclassification from non-degree student status to degree-seeking status must submit an application via Apply Texas.

IX. Admission to a College Major

An academic college or an academic department may have admission requirements in addition to those of the university.

X. Other Provisions and Conditions of Admission

All other provisions and conditions of admission not covered by the above admission requirements shall be established by the president of the university.

XI. Admission Decision Appeals

The policies and procedures for considering admission decision appeals shall be established by the vice president for external affairs, subject to approval by the president of the university. Appeal consideration factors may include, but are not limited to, the applicant's: academic record, class rank, standardized test scores, or any other consideration the university considers necessary to accomplish the university's stated mission. The university's decision in all such cases shall be final.

Source Note: Angelo State University Operating Policy 10.01. . Approved June 21, 2022.

General Statement Regarding Transfer Students

Angelo State University (ASU) seeks students from two-year and four-year colleges and will assist those students in every reasonable way to make the transition to ASU as efficient as possible. The University will accept transfer credits from accredited institutions. Current ASU students who enroll in courses at two-year colleges or four-year universities during the summer or otherwise must have an official transcript of earned course work sent to the Office of Admissions. The semester credit hours (SCH) fulfilling the general education requirements and requirements for the major are designated in the academic regulation sections of this Catalog. The ASU core course numbers and the Texas Common Course Numbers can be found beginning on page 186.

Students transferring course work from another college or university will receive credit hours for transferable hours, but the grades do not transfer. Effective fall 2016, transfer work must be a grade of "D" or above to qualify for credit toward degree requirements except in degrees that have specific grade requirements that apply to all students.

The Office of Admissions, in conjunction with the Department of English and Modern Languages, will make an exception to standard policy regarding transfer credit for military language training in languages not offered by ASU. Students who enter ASU with previous language qualifications may receive undergraduate transfer credit hours as demonstrated with scores from the Defense Language Institute or the Defense Language Proficiency Test. These transfer credit hours may apply to the modern languages requirements in the B.A. or to elective credit if those hours total fewer than twelve.

The Office of Admissions allows vocational credits to transfer for the Bachelor of Applied Arts and Sciences (B.A.A.S.) degree and degrees in the Air University Associate to Baccalaureate (AU-ABC) program through the Community College of the Air Force (CCAF). However, if students change their degree plan and no longer pursue a B.A.A.S. or AU-ABC degree program, the vocational transfer credits originally accepted and applied may be revoked.

Fresh Start

An applicant for admission who is a Texas resident may seek to enter this institution pursuant to the "academic fresh start" statute, Texas Education Code, 51.931. If the applicant informs the Admissions Office in writing of the election at the time of application to the University, the institution will not consider academic course credits or grades earned by the applicant 10 or more years prior to the starting date of the semester in which the applicant seeks to enroll. An applicant who chooses to apply under this statute may not receive any course credit for courses taken 10 or more years prior to enrollment. All students who wish to enroll in academic course work at Angelo State University under the "academic fresh start" must submit an Application for Admission and official transcripts of all college or university work attempted and current application fee.

Bacterial Meningitis Vaccination

State law requires all new enrolling students and students returning after a lapse of enrollment who are under 22 years old to show evidence of receiving a bacterial meningitis vaccination or booster dose. The vaccination must have been administered within five years of enrollment, and the latest possible date to receive the vaccine is 10 days prior to the first day of the semester.

Exceptions to the vaccination requirement are allowed in limited circumstances consistent with Texas legislation:

- Enrollment in Distance education courses only.
- An affidavit or certificate from a physician that states the vaccination would be harmful to the health and well-being of the student.
- A conscientious exemption form from the Texas Department of State Health Services that states the student is declining the vaccination for reasons of conscience, including a religious belief.

Complete information is available on the ASU Bacterial Meningitis website.

Housing and Residential Programs

Single undergraduate students who are approved for admission will be allowed to register only after they have satisfied the requirements of the university's housing policy. More information about the housing policy may be found online and students may apply online at the Housing and Residential Programs website.

Personal Standards

Angelo 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. The personal standards of conduct expected of students who enroll at Angelo State University are provided in the Code of Student Conduct contained in the Student Handbook.

Policy on Transfer Credit Disputes

Texas Administrative Code

Title 19, Part 1, Chapter 4, Subchapter B, Rule §4.27

(a) Each institution of higher education shall apply the following procedures in the resolution of credit transfer disputes involving lower-division courses:

(1) If an institution of higher education does not accept and apply a course included in the field of study curriculum for the program in which a student is enrolled or a course in the core curriculum earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that it intends to deny the transfer of the course credit and shall include in that notice the reasons for the proposed denial. The receiving institution must attach the procedures for resolution of transfer disputes as outlined in this section to the notice. The notice and procedure must include:

A. clear instructions for appealing the decision to the Commissioner; and

B. the name and contact information for the designated official at the receiving institution who is authorized to resolve the credit transfer dispute.

(2) A student who receives notice as specified in paragraph (1) of this subsection may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution.

(3) The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with this section. An institution that proposes to deny the credit shall resolve the dispute not later than the 45th day after the date that the student enrolls at the institution.

(4) If the student or the sending institution is not satisfied with the resolution of the credit transfer dispute, the student or the sending institution may notify the Commissioner in writing of the denial of the course credit and the reasons for denial.

(b) Not later than the 20th business day after the date that the Commissioner receives the notice of dispute concerning the application of credit for the core curriculum or field of study curriculum, the Commissioner or the Commissioner's designee shall make the final determination about a credit transfer dispute and give written notice of the determination to the student and each institution.

(c) If the Commissioner or the Commissioner's designee determines that an institution may not deny the transfer of credit for the core curriculum or the field of study curriculum, the receiving institution shall accept and apply the credit toward the core curriculum or the field of study as determined by the Commissioner or the Commissioner's designee.

(d) A decision under this section is not a contested case. The Commissioner or the Commissioner's designee's decision is final and may not be appealed. Each transfer credit dispute resolved by the Commissioner shall be posted on the Board website, including the final determination.

(e) Each institution of higher education shall publish in its course catalogs the procedures specified in this section.

(f) The Board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the Commissioner or the Commissioner's designee.

Source Note: The provisions of this §4.27 adopted to be effective April 8, 2021, 46 TexReg 2209; amended to be effective May 16,2024, 49 TexReg 3239

International Student Admissions

Angelo State University is authorized under Federal law to enroll non-immigrant alien students. International applicants for graduate admissions must meet requirements for graduate programs. A student from a foreign country will be eligible for admission to Angelo State University and a Form I-20, Certificate for Eligibility, will be issued when all admission requirements have been met and the following items are on file in the Center for International Studies:

I. Graduates of foreign secondary schools who have completed the equivalent of at least an American high school diploma (12th grade) may apply for admission to Angelo State University by writing to the Center for International Studies and submitting the online application at Apply Texas website. The mailing address for the Center for International Studies is ASU Station #11035, San Angelo, TX 76909-1035, and the website address is https://www.angelo.edu/life-on-campus/explore/center-for-international-studies/.

II. Applicants with foreign academic credentials must provide academic records in the original language with a certified English translation. Applicants who have attended school outside the United States must provide official results of secondary external examinations (e.g., GCE "Ordinary" level exams) on examination board letterhead, certificates of completion of a state secondary school examination, and official transcripts from any university-level studies already completed in the United States or elsewhere. Failure to provide complete information regarding post-secondary level study could result in cancellation of admission.

III. Students whose native language is not English also must present a score of at least 550 (paper-based exam), 213 (computer-based exam), or 69 (internet-based exam) on the Test of English as a Foreign Language (TOEFL) or a score of 100 on the Duolingo English Test. Or students may present a score of at least 6.0 on the International English Language Testing System (IELTS). The TOEFL/IELTS requirement may be waived if the student has attended a U.S. high school or college for at least three consecutive years or if the student is a citizen in a country where English is the native language. Angelo State University will make the final decision regarding approved English speaking countries. A list of approved English speaking countries is on file in the Center for International Studies. Information concerning the TOEFL may be obtained from Educational Testing Service, P.O. Box 899, Princeton, New Jersey 08540, U.S.A. Information concerning the IELTS may be obtained from IELTS International, 825 Colorado Boulevard, Suite 112, Los Angeles, California 90041, U.S.A. Angelo State University does not require ACT or SAT scores of international applicants.

Students not meeting the TOEFL or IELTS requirements can apply to the English Language Learners Institute (ELLI) and may be provisionally admitted. After successful completion of ELLI requirements, students may begin their undergraduate program.

IV. International students not living in the United States are encouraged to apply a year in advance. International students are required to verify their ability to support themselves financially. Please visit the Center for International Studies website for more information on the cost to attend. The website address is: https://www.angelo.edu/life-on-campus/explore/center-for-international-studies/

V. A nonrefundable application fee is required. An International Money Order or U.S. Postal Money Order or online Flywire payment for the current application fee must accompany the international student application. The website address for Flywire is: https://payment.flywire.com/pay/payment. Students who apply online through the Apply Texas application may pay the current application fee with a credit card at the time of application.

VI. OTHER PROVISIONS AND CONDITIONS OF ADMISSION - All other provisions and conditions of admission not covered by the above admission requirement shall be established by the President of the University or his/her designee.

VII. CONDITIONAL ADMISSION - Conditional admission for international students may be considered for undergraduate students sponsored by a known and responsible organization, institution, corporation, or government, who would be eligible for admission to Angelo State University, except for a deficiency in English language skills as determined by the Center for International Studies. Applicants for conditional admissions must be reviewed and approved by the Center for International Studies. While in this status, students will be enrolled in a recognized Intensive English Program. Upon successful completion of the Intensive English Program and meeting the language requirements for admission, students may then transfer into the appropriate department and college at Angelo State University. Courses completed in the Intensive English Program will not count as transferrable courses.

VIII. PARTNER INSTITUTIONS - Reciprocal Exchange, Study Abroad, Hybrid, and ELLI students are admitted to Angelo State University on the basis of a contract signed with the international partner university. The Center for International Studies oversees and implements all such agreements. Working with other offices on campus, the Center for International Studies coordinates admission of the students and, working within the framework of the contract and with the partner institution, advises and enrolls these students.

International applicants must have all of these items on file in the Center for International Studies no later than June 10 in order to register for the fall semester, November 1 to register for the spring semester, and March 15 to register for the summer session.

International students are subject to the same special requirements regarding satisfactory writing, reading, and mathematics skills as imposed on high school graduates or transfer students based upon their scores on their ACT or SAT exams and the requirements established by the Texas Success Initiative (TSI). *

Other Provisions and Conditions of Admission. All other provisions and conditions of admission not covered by the above admission requirements shall be established by the President of the University.

Source Note: Angelo State University Operating Policy 10.17. . Approved August 31, 2022.

Insurance Requirement for International Students

All international students will be automatically billed by ASU for the Group Hospitalization, Medical U.S. Evacuation, and Repatriation Insurance plan provided through the University for each semester enrolled. Further information regarding insurance coverage and cost may be obtained from the University's Center for International Studies.

* See page 294 regarding TSI requirements.

Tuition and Fees

A complete list, including authority and explanations for tuition and fees, is available on the Tuition and Fees web page. Tuition and fee grids are provided on the site to assist students in estimating the cost of attendance based on enrolled semester hours.

The Student Accounts Office is responsible for billing and collection of student accounts. Angelo State University reserves the right, without notice in this or any other publication, to change, amend, add to, or otherwise alter any or all fees, dues, rates, or other charges set forth herein and subject to action by the Texas State Legislature, the Board of Regents of the Texas Tech University System, or other authority.

It is the student's responsibility to ensure payment of tuition and fees based on the number of semester credit hours for which they register is received by the payment due date.

Textbooks

Students have the opportunity to participate in the Follett Access digital textbook program offered for selected sections during each semester. Those who opt out will have the digital textbook fee removed from their student bill. For additional information regarding the digital textbook program, visit the Bookstore website, email angelo@bkstr.com, or call 325-942-2335.

Payment Procedures

Student billing statements and payment due dates may be viewed electronically via RamPort located on the Financial Aid and Billing page. Class schedules are not valid until the ASU Student Accounts Office has received payment of the current amount due including financial aid credit. Payment must reach the Student Accounts Office, or payment arrangements must be made, prior to the close of business on the due date. Failure to make payments by the due date will result in cancellation of the student's registration after the close of business on the due date. Students who are cancelled prior to the first class day for nonpayment must re-register for classes, and the original schedule is not guaranteed.

Reinstatement Fee: A reinstatement fee of $350.00 will be required in addition to the statutorily required amount of mandatory tuition and fees for a student who is requesting reinstatement of their class schedule after final cancellation. Upon making payment in full, the Registrar will reinstate the class schedule.

Students who incur incidental fees during the semester or who choose the payment option must pay the current due amount by the established due dates or they may be prohibited from registering for future terms until full payment is made. A student who is not 100 percent paid prior to the end of the term may 1) be dismissed from the university, 2) be withheld from future registration privileges, 3) not be issued an official certified transcript, and 4) not be conferred their degree. The possibility of future financial aid will not hold the class schedule. Questions concerning the financial aid process may be directed to the Financial Aid Office at 325-942-2246 or 800-933-6299.

Students with an account balance of $100 or more by the end of the semester in which it is due will have their account sent to a collection agency for collection. The student will be responsible for all additional fees associated with the collection of the amount due. These collection fees will be in addition to any late fee assessed to the account.

Payment Options

A student may pay for tuition and mandatory fees for the fall, spring, and each summer semesters by one of two methods: payment in full or payment in installments. A student selecting the installment plan that has made a payment or received a credit to their account may not be removed from the plan. However, the full amount due plus the applicable fee may be paid in full at any time. All available financial aid awarded to a student will be applied toward the full amount due to the university before the installment payments are scheduled.

The fall and spring installment plans consist of four payments of 25% and the summer installment plan consists of two payments of 50% of the tuition, fees, and room and board charges, if applicable. A fee for enrolling in the plan will be charged. Initial installments may also be due depending on the time of enrollment in the plan. Students making an installment payment after the due date will be assessed a late fee.

Students adding courses on the installment program will be required to pay 25% in the fall and spring or 50% in the summer terms of the full cost for the additional courses at the time the courses are added. Students dropping hours will pay installments on the basis of semester credit hours for which they are currently enrolled. Any refund will be applied toward the installment payments still due. Students officially withdrawing from the university must pay all tuition and fees owed at the time of withdrawal.

Short Term Loans

Emergency loans in varying amounts are available to students on a limited basis with a minimal service charge assessed. A separate application is required for each term and the plan does not include balances due for housing, incidental fees or other institutional charges. Additional information regarding short term loans is available on the website.

General Payment Information

Payment can be made as follows:

- **In person:** Students can pay in cash at the Student Accounts Office located in the Administration Building, Room 100 between 8am and 5pm Monday through Friday, or by personal check, money order, VISA, MasterCard, American Express or Discover Card. Checks should be made payable to Angelo State University. All payments other than cash are subject to final acceptance for payment.
- **By mail:** Cash should not be sent through the mail and Angelo State University accepts no responsibility for cash sent by mail. Payments may be mailed to ASU Student Accounts Office, ASU Station #11046, and San Angelo, TX 76909.
- **By web – students:** Pay online using RamPort. VISA, MasterCard, American Express, Discover Card and e-check accepted.
- **By web – parents:** When a student adds a parent as a web pay authorized user, the parent will receive a confirmation email. Once the parent has been added, the parent will receive notification emails when payments are due for the student's bill. The email contains a link that allows a payment to be made.

Return Check Charge: A fee will be assessed for each check or e-check returned from the bank unpaid. A return check or e-check for the initial payment of tuition and fees may result in cancellation of enrollment. Responsibility rests with the students regardless of the maker of the check.

Refund Policy

Change in class schedule. Any refund as a result of a class change will be processed and distributed within 40 days after the drop period has ended for the semester or term. The class change refund amount will be in accordance with the following schedule:

Fall or Spring Semester

1st class day through 12th class day.....100%
After the 12th class day.....None

Summer terms

1st class day through 4th class day.....100%
After the 4th class day.....None

Withdrawal from the university. Withdrawal from the university is defined as leaving the university for the remainder of the semester and being officially removed from all classes. This includes students withdrawing from the university at their request or those who have been withdrawn due to university action. Students must contact the Office of the Registrar to complete the withdrawal process. Students who do not complete the withdrawal process by the appropriate deadline will be assigned a grade in each of their classes. Students officially withdrawing from the university may be eligible for a refund of tuition and fees according to the following schedule. (Class days indicated below is defined by the official university calendar, not the individual students' calendar.)

Fall, Spring, or Summer term of 10 weeks or longer

Prior to the first class day.....100%
During the 1st through 5th class days.....80%
During the 6th through 10th class days.....70%
During the 11th through 15th class days.....50%
During the 16th through 20th class days.....25%
After the 20th class day.....None

Term or session of five weeks but less than 10 weeks

Prior to the first class day.....100%
During the 1st through 3rd class days.....80%
During the 4th through 6th class days.....50%
After the 6th class day.....None

Term or session of five weeks or less

Prior to the 1st class day.....100%
During the 1st class day.....80%
During the 2nd class day.....50%
After the 2nd class day.....None

Financial aid recipients who officially withdraw from the university and those who are determined to have unofficially withdrawn due to receiving "Fs" in all courses in which he/she was enrolled for the semester or term will be subject to the Federal Return of Title IV refund calculation. This calculation will determine the amount of awarded aid the student earned and the amount of awarded aid the student did not earn and must be returned to the aid program(s).

Exemptions and Waivers

All exemptions and waivers have been authorized by statute in the Texas Education Code or through action of the Board of Regents of the Texas Tech University System. Angelo State University reserves the right, without notice in this or any other publication, to change, amend, add to, or alter any or all exemptions and waivers subject to and in accordance with actions of the Texas State Legislature and/or the Board of Regents.

A complete list of waivers and exemptions offered by Angelo State University can be found at the Exemptions and Waivers website. For additional information, contact the Student Accounts Office at 325-942-2008 or 877- 942-2008.

Statement on Refunds

Angelo State University has adopted and published in the Student Handbook "Grievance and Appeal Procedures for Students at Angelo State University." In cases where students or parents feel that individual circumstances warrant exceptions from published policy regarding charges or refunds at Angelo State University and where such matters are not satisfactorily resolved, the matter may be appealed by completing a tuition appeal form. The appeal must be submitted to the University no later than 90 days after the end of the term in which the occurrence happened.

$1,000 Tuition Rebates

The purpose of this program is to provide tuition rebates that will provide a financial incentive for students to prepare for their university studies and complete their baccalaureate studies with as few courses outside the degree plan as possible. This program is authorized by the Texas Education Code, Section 54.0065.

The major conditions the student must meet to qualify for this program are as follows: (1) they must have enrolled for the first time in an institution of higher education in the fall 1997 semester or later, and (2) they must have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree.

These are the major conditions to qualify for this program. ASU students must complete a Request for Tuition Rebate form in the Registrar's Office during the semester in which graduation is anticipated. For complete details about this program, please contact the Registrar's Office.

Angelo State University Tuition Rebate for Undergraduates

Information regarding the tuition rebate program at Angelo State University is published in the University Catalog.

Upon initial enrollment at Angelo State University, advisors will inform first-time freshmen or new advisees of the tuition rebate program so they will be aware the program exists. Upon submission of an application for graduation, the respective dean's offices will remind students of this program, the deadlines for applying and where the appropriate forms can be obtained, if not given out from their offices.

Students may obtain the required application for tuition rebate from the Registrar's Office along with a copy of the Texas Education Code that created this benefit, if they so desire. Referral to the University Catalog for additional information is relayed to students as well. The application for tuition rebate is required prior to students receiving their baccalaureate degree and is to be turned in only during the semester the student intends to graduate. Any applications made prior to the semester of, or after graduation conferral will be considered invalid and will not be processed. Once students have officially graduated, their eligibility for the rebate is determined. Students will be informed of the tuition rebate decision within and no later than 60 days following graduation. Students who do not meet eligibility for the tuition rebate will be notified by letter which will include the reason(s) for award denial. Those that meet eligibility requirements will receive a check from Angelo State University, or if outstanding loan obligations to the University are owed, the Bursar's Office will notify the student that the award amount has been applied to said financial obligation. Any excess not applied to loan obligations will be awarded to the students.

Disputes regarding the tuition rebate will be directed first to the office overseeing the process. If resolution is not found there, the appeal process will be taken to the appropriate Director, Dean or Vice Presidential level which will have final say on the appeal. Angelo State University will follow the guidelines set forth by both the Texas Legislature and the Texas Higher Education Coordinating Board.

Texas Education Code

§Sec. 54.0065. Tuition Rebate for Certain Undergraduates.

A. A qualified student is eligible for a rebate of a portion of the undergraduate tuition the student has paid if the student:
   1. is awarded a baccalaureate degree from a general academic teaching institution within:
      a. four calendar years after the date the student initially enrolled in the institution or another postsecondary educational institution if:
         (i) the institution awarding the degree is a four-year institution; and
         (ii) the student is awarded a degree other than a degree in engineering, architecture, or any other program determined by the coordinating board to require more than four years to complete; or
      b. five calendar years after the date the student initially enrolled in the institution or another postsecondary educational institution if:
         (i) the institution awarding the degree is a four-year institution; and
         (ii) the student is awarded a degree in engineering, architecture, or any other program determined by the coordinating board to require more than four years to complete; and
   2. has attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree program:
      a. including:
         (i) transfer credits; and
         (ii) course credit earned exclusively by examination, except that, for purposes of this subsection, only the number of semester credit hours earned exclusively by examination in excess of nine semester credit hours is treated as hours attempted.; and
      b. excluding:
         (i) course credit that is earned to satisfy requirements for a Reserve Officers' Training Corps (ROTC) program but that is not required to complete the degree program; and
         (ii) course credit, other than course credit earned exclusively by examination, that is earned before graduating from high school.

B. The amount of tuition to be rebated to a student under this section is $1,000, unless the total amount of undergraduate tuition paid by the student to the institution of higher education awarding the degree was less than $1,000, in which event the amount of tuition to be rebated is an amount equal to the amount of undergraduate tuition paid by the student to the institution. However, a student who paid the institution awarding the degree an amount of undergraduate tuition less than $1,000 may qualify for an increase in the amount of the rebate, not to exceed a total rebate of $1,000, for any amount of undergraduate tuition the student paid to other institutions of higher education by providing the institution with proof of the total amount of that tuition paid to other institutions of higher education.

C. A student who has transferred from another institution of higher education shall provide the institution awarding the degree an official transcript from each institution attended by the student in order that the period during which the student has been enrolled in a general academic teaching institution and the total number of hours attempted by the student can be verified.

D. To qualify for a rebate under this section, the student must have been a resident of this state and entitled to pay tuition at the rate provided by this chapter for a resident student at all times while pursuing the degree.

E. All institutions of higher education shall notify each first-time freshman student of the tuition rebate program.

F. The institution awarding the degree shall pay the rebate under this section from local funds.

G. If a student entitled to a rebate under this section has an outstanding student loan, including an emergency loan, owed or guaranteed by this state, including the Texas Guaranteed Student Loan Corporation, the institution shall apply the amount of the rebate to the student's loan. If a student has more than one out-

standing loan, the institution shall apply the amount of the rebate to the loans as directed by the student or, if the student fails to provide timely instructions on the application of the amount, the institution shall apply the amount of the rebate to the loans according to priorities established by the coordinating board. If the amount of the rebate exceeds the amount of the loan indebtedness, the institution shall pay the student the excess amount.

H. The legislature shall account in the General Appropriations Act for the rebates authorized by this section in a way that provides a corresponding increase in the general revenue funds appropriated to the institution. It is the intent of the legislature that rebates authorized by this section shall be financed by savings to the state resulting from reductions in the number of courses taken by undergraduate students.

I. The coordinating board, in consultation with the institutions of higher education, shall adopt rules for the administration of this section, including a rule to allow an otherwise eligible student to receive a rebate under this section if the student is not awarded a baccalaureate degree within the period required by Subsection (a)(1) solely as a result of a hardship or other good cause. The performance of active duty military service by a student shall be recognized as "good cause" for purposes of this section.

Added by Acts 1997, 75th Leg., ch. 1073, Sec. 1.09, eff. Aug. 1, 1997. Amended by Acts 2003, 78th Leg., ch. 611, Sec. 1, eff. June 20, 2003. Amended by: Acts 2005, 79th Leg., Ch. 292 (S.B. 34), Sec. 3, eff. June 17, 2005; Acts 2007, 80th Leg., R.S., Ch. 270 (H.B. 86), Sec. 1, eff. June 15, 2007; Acts 2011, 82nd Leg., R.S., Ch. 593 (S.B. 176), Sec. 1, eff. June 17, 2011; Acts 2015, 84th Leg., R.S., Ch. 1243 (H.B. 700), Sec. 5, eff. September 1, 2015.

Tuition Rebate for Certain Undergraduates

Authorized by Section 54.0065 of the Texas Education Code
Chapter 13. Financial Planning
Subchapter E. Tuition Rebates for Certain Undergraduates
THECB Rules and Regulations

§13.80 Purpose

The purpose of this program is to provide tuition rebates that will provide a financial incentive for students to prepare for university studies while completing their high school work, avail themselves of academic counseling, make early career decisions, and complete their baccalaureate studies with as few courses outside the degree plan as possible. Minimizing the number of courses taken by students results in financial savings to students, parents, and the state.

Source Note: The provisions of this §13.80 adopted to be effective May 21, 2001, 26 TexReg 3627.

§13.81 Authority

The program is authorized by Texas Education Code, §54.0065.

Source Note: The provisions of this §13.81 adopted to be effective May 21, 2001, 26 TexReg 3627.

§13.82 Eligible Students

To be eligible for a rebate under this program, a student must:

(1) have enrolled for the first time in an institution of higher education in the fall 1997 semester or later,

(2) request a rebate for coursework related to a first baccalaureate degree received from a general academic teaching institution;

(3) have been a resident of Texas as set forth under Chapter 21, Subchapter B of this title (relating to Determining Residence Status) and have been entitled to pay resident tuition at all times while pursuing the degree;

(4) if enrolled for the first time in fall 2005 or later, graduate within four calendar years for a four-year degree or within five calendar years for a five-year degree if the degree is in architecture, engineering, or any other program determined by the Board to require more than four years to complete; and

(5) have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree under the catalog under which the student graduated.

(A) Hours attempted shall include:
- (i) transfer credits;
- (ii) course credit earned exclusively by examination (except that, for the purposes of this program, only the number of semester credit hours earned exclusively by examination in excess of nine semester credit hours is treated as hours attempted);
- (iii) courses dropped after the official census date;
- (iv) optional internship and cooperative education courses; and
- (v) repeated courses.

(B) Hours attempted shall not include:
- (i) course credit that is earned to satisfy requirements for a Reserve Officers' Training Corps (ROTC) program but that is not required to complete the degree program;
- (ii) course credit, other than course credit earned exclusively by examination, that is earned before graduating from high school; and
- (iii) courses dropped for reasons that are determined by the institution to be totally beyond the control of the student.

(C) For students concurrently earning a baccalaureate degree and a Texas teaching certificate, required teacher education courses shall not be counted to the extent that they are over and above the free electives allowed in the baccalaureate degree program.

Source Note: The provisions of this §13.82 adopted to be effective May 21, 2001, 26 TexReg 3627; amended to be effective December 3, 2003, 28 TexReg 10756; amended to be effective November 22, 2005, 30 TexReg 7729; amended to be effective November 29, 2011, 36 TexReg 8014.

§13.83 Hardship Provisions

Effective for students who enroll for the first time in fall 2005 or later, an otherwise eligible student may be eligible for a tuition rebate without satisfying the requirements of §13.82(4) of this title (relating to Eligible Students), if the student is awarded a baccalaureate degree and the institution determines that the student has demonstrated a hardship under the policy required by §13.85(g) of this title (relating to Responsibilities of Institutions).

Source Note: The provisions of this §13.83 adopted to be effective May 21, 2001, 26 TexReg 3627; amended to be effective November 22, 2005, 30 TexReg 7729.

§13.84 Amount of Tuition Rebates

(a) The amount of tuition to be rebated to a student under this program is $1,000, unless the total amount of undergraduate tuition paid by the student to the institution awarding the degree was less than $1,000, in which event the amount of tuition to be rebated is an amount equal to the amount of undergraduate tuition paid by the student to the institution.

(b) A student who paid the institution awarding the degree an amount of undergraduate tuition less than $1,000 may qualify for an increase in the amount of the rebate, not to exceed a total rebate of $1,000, for any amount of undergraduate tuition the student paid to other Texas public institutions of higher education by providing the institution awarding the degree with proof of the total amount of that tuition paid to other institutions.

(c) Tuition rebates shall be reduced by the amount of any outstanding student loan, including an emergency loan, owed to or guaranteed by this state, including the Texas Guaranteed Student Loan Corporation. If a student has more than one outstanding student loan, the institution shall apply the amount of the rebate to the loans as directed by the student. If the student fails to provide timely instructions on the application of the amount, the institution shall apply the amount of the rebate to retire the loans with the highest interest rates first.

Source Note: The provisions of this §13.84 adopted to be effective May 21, 2001, 26 TexReg 3627.

§13.85 Responsibilities of Institutions

(a) Institutions of higher education shall include information regarding this program in the institution's catalog.

(b) If requested by potentially eligible students, institutions of higher education shall provide these students opportunities to enroll during each fall and spring semester in the equivalent of at least 12 semester credit hours that apply toward their degrees. Institutions are not required to provide students with the opportunity to enroll in specific courses or specific sections. Public two-year colleges will comply to the extent that courses for the current semester are being offered that apply to the student's baccalaureate degree program. The requirement may be met by allowing substitutions for required courses or by allowing concurrent enrollment in courses from another institution, so long as the courses are taught on the students' home campus and the students incur no financial penalty.

(c) General academic teaching institutions shall provide students with appropriate forms and instructions for requesting tuition reimbursement at the time that students apply for baccalaureate degrees.

(d) Institutions shall provide tuition rebates to students who apply within 60 days after graduation or provide the student with a statement explaining the reason the student is ineligible for the rebate.

(e) Institutions shall provide a dispute resolution process to resolve disputes related to local administration of the program.

(f) Disputes related to lower division credit transfer shall be resolved in accordance with Coordinating Board rules, §4.27 of this title (relating to Resolution of Transfer Disputes for Lower-Division Courses).

(g) Institutions shall establish policies and procedures for allowing otherwise eligible students to qualify for tuition rebates under this program, if the student receives a baccalaureate degree and demonstrates that the failure to comply with §13.82(4) of this title (relating to Eligible Students) was caused by a hardship condition. The policies and procedures shall include, but shall not be limited to, the following conditions:

(1) a severe illness or other debilitating condition that may affect the student's academic performance;
(2) an indication that the student is responsible for the care of a sick, injured, or needy person and that the student's provision of care may affect his or her academic performance; or
(3) performance of active duty military service.

(h) Institutions may adopt policies and procedures for administering the program. For example, institutions may require students to declare their intent to qualify for a tuition rebate early in their careers or register prior to the beginning of the semester.

Source Note: The provisions of this §13.85 adopted to be effective May 21, 2001, 26 TexReg 3627; amended to be effective November 22, 2005, 30 TexReg 7729.

§13.86 Responsibilities of Students

(a) Students desiring to qualify for tuition rebates are responsible for complying with all rules and regulations related to administration of the program.

(b) Students desiring to qualify for tuition rebates are solely responsible for enrolling only in courses that will qualify them for the rebates.

(c) A student who has transferred from another public or independent institution of higher education is responsible for providing to the institution awarding the degree official transcripts from all institutions attended by the student.

(d) Students must apply for rebates prior to receiving their baccalaureate degrees on forms provided by the institution and must keep the institution apprised of their addresses for at least 60 days after their graduation date.

Source Note: The provisions of this §13.86 adopted to be effective May 21, 2001, 26 TexReg 3627; amended to be effective November 22, 2005, 30 TexReg 7729.

§13.87 Source of Funding

Tuition rebates shall be paid from institutional local funds. However, the enabling legislation provides that the Legislature shall account in the General Appropriations Act for the rebates in a way that provides a corresponding increase in the general revenue funds appropriated to the institution.

Source Note: The provisions of this §13.87 adopted to be effective May 21, 2001, 26 TexReg 3627.

Rules and Regulations for Determining Residence Status for Tuition Purposes General Rules

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. A student is classified either as a resident of Texas or a non-resident of Texas, for tuition purposes. Residency classification, for tuition purposes, is based on the residency information an applicant provides on their application for admission. If an applicant or student is classified as a non-resident and wishes to be considered for reclassification as a resident, it is necessary to submit the Residency Reclassification Questionnaire available from the Office of Admissions or online on the Residency website. Documentation may be requested by the institution in order to resolve issues raised by the information provided in response to the Core Residency Questions.

The Texas Higher Education Coordinating Board rules include the following provisions covering some of the more common residency situations. The following information is neither exhaustive nor complete and should not be interpreted as such. Full regulations are available at the Office of the Secretary of State - Texas Administrative Code website.

Determination of Residence Status

I. The following persons shall be classified as Texas residents and entitled to pay resident tuition at all institutions of higher education:

A. a person who:
(i) graduated from a public or accredited private high school in this state or received the equivalent of a high school diploma in this state, including the successful completion of a nontraditional secondary education, and
(ii) maintained a residence continuously in this state for:
(1) the thirty-six months immediately preceding the date of graduation or receipt of the diploma equivalent, as applicable; and
(2) the 12 months preceding the census date of the academic semester in which the person enrolls in an institution.

B. a person who:
(i) established domicile in this state not less than 12 months before the census date of the academic semester in which the person enrolls in an institution; and
(ii) maintained domicile continuously in the state for the 12 months immediately preceding the census date of the academic semester in which the person enrolls in an institution.

C. a dependent whose parent:
(i) established domicile in this state not less than 12 months prior to the census date of the academic semester in which the person enrolls in an institution; and
(ii) maintained domicile continuously in the state for the 12 months immediately preceding the census date of the academic semester in which the person enrolls in an institution.

II. Texas Residency: The following is a list of documents that may provide support to a claim of physical residence in Texas.

A. Utility bills for the 12 consecutive months preceding the census date;

B. Cancelled checks that reflect a Texas residence for the 12 consecutive months preceding the census date

C. A current credit report that documents the length and place of residence of the person or the dependent's parent to be in Texas and the length of residence to be at least 12 consecutive months preceding the census date;

D. Texas voter registration card that was issued at least 12 months prior to the census date;

E. Lease or rental of residential real property in the name of the person or the dependent's parent for the 12 consecutive months immediately preceding the census date;

F. Texas high school transcript for full senior year immediately preceding the census date or a transcript from a Texas institution of higher education showing presence in the state for the 12 consecutive months preceding the census date.

III. The student has the burden of proof to show by clear and convincing evidence that domicile has been established and maintained as required by subsections (a)(2) and (a)(3) of this section.

IV. The following non-U. S. citizens are eligible to establish and maintain domicile in this state for the purposes of subsection (a)(2) or (3) of this section:

A. a Permanent Resident;

B. a person who is eligible for permanent resident status as defined in §21.22(7) of this title (relating to Definitions);

C. a nonimmigrant who holds one of the types of visas identified as eligible to domicile;

D. a person classified by the USCIS as a Refugee, Asylee, Parolee, Conditional Permanent Resident, or Temporary Resident;

E. a person holding Temporary Protected Status, and Spouses and Children with approved petitions under the Violence Against Women Act (VAWA), an applicant with an approved USCIS I-360, and a person granted deferred action status by USCIS;

F. a person who has filed an application for Cancellation of Removal and Adjustment of Status under Immigration Nationality Act 240A(b) or a Cancellation of Removal and Adjustment of Status under the Nicaraguan and Central American Relief Act (NACARA), Haitian Refugee Immigrant Fairness Act (HRIFA), or the Cuban Adjustment Act, and who has been issued a fee/filing receipt or Notice of Action by USCIS; and

G. a person who has filed for adjustment of status to that of a person admitted as a Permanent Resident under 8 United States Code 1255, or under the "registry" program (8 United States Code 1259), or the Special Immigrant Juvenile Program (8 USC 1101(a)(27)(J)) and has been issued a fee/filing receipt or Notice of Action by USCIS.

V. The domicile of a dependent's parent is presumed to be the domicile of the dependent unless the dependent establishes eligibility for resident tuition under subsection (I)(A) of this section.

VI. Although not conclusive or exhaustive, the following factors occurring throughout a consecutive 12-month period prior to the census date of the semester in which a person seeks to enroll may lend support to a claim regarding his/her intent to establish domicile in Texas. Continued presence in the state from the end of that period until the census date of the semester in which a person seeks to enroll, except for temporary absences as defined in §21.22(28), may lend support to a claim of maintaining domicile in Texas:

A. Establishment of Domicile:
(i) Significant Gainful Employment:
(1) An employer's statement of dates of employment in Texas (beginning and current or ending dates) that encompass at least 12 consecutive months prior to the census date of the term in which the person enrolls or pay stubs for 12 consecutive months prior to the census date, reflecting significant gainful employment in Texas, or proof of other earned income such as pensions, veterans' benefits, social security, and savings from previous earnings for 12 consecutive months prior to the census date. However, employment conditioned on student status, such as work study, the receipt of stipends, fellowships, or research or teaching assistantships does not constitute gainful employment for the purposes of this subchapter.
(2) For a person who is unemployed and living on public assistance, written statements from the office of one or more social service agencies located in Texas that attest

to the provision of services to the person for the 12 consecutive months prior to the census date of the term in which the person enrolls.

(ii) Residential Real Property. Sole or joint marital ownership of residential real property in Texas with documentation to verify 12 consecutive months of ownership prior to the census date of the term in which the person enrolls, such as a Warranty Deed, with the person or the dependent's parent having established and maintained domicile at that residence.

(iii) Marriage to a Person who has Established and Maintained Domicile in Texas Marriage Certificate or Declaration of Registration of lnformal Marriage with documentation to support that spouse has established and maintained domicile in Texas for 12 consecutive months prior to the census date of the term in which the person enrolls.

(iv) Ownership of a Business Entity. Documents that evidence the organization of the business in Texas that reflect the ownership interest of the person or dependent's parent, and the customary management of the business by the person or dependent's parent without the intention of liquidation for the foreseeable future.

B. Maintenance of Domicile: A person who established domicile through one of the actions described in paragraph (1) of this subsection and continues to reside in the State of Texas, except for temporary absences as defined in §21.22(29) of this subchapter, is considered to have maintained domicile in Texas for that period of time unless he or she takes specific steps to change his or her domicile to a different location.

VII. An individual whose initial purpose for moving to Texas is to attend an institution of higher education as a full-time student will be presumed not to have the required intent to make Texas his or her domicile; however, the presumption may be overruled by clear and convincing evidence.

VIII. An individual shall not ordinarily be able to establish domicile by performing acts which are directly related to fulfilling educational objectives or which are required or routinely performed by temporary residents of the State.

A. A member of the United States Armed Services whose Home of Record with the military is Texas is presumed to be a Texas resident, as are his or her spouse and dependent children. A member whose Home of Record is not Texas but who provides the institution Leave and Earnings Statements that show the member has claimed Texas as his or her place of residence for the 12 consecutive months prior to enrollment is presumed to be a Texas resident, as are his or her spouse and dependent children.

Source Note: The provisions of this §21.24 adopted to be effective May 21, 2008, 33 TexReg 3939; amended to be effective August 25, 2008, 33 TexReg 6813; amended to be effective February 23, 2011, 36 TexReg 923; amended to be effective September 6, 2011, 36 TexReg 5682; amended to be effective November 23, 2016, 41 TexReg 9133.

Waivers

A person who is classified as a nonresident may qualify to pay resident tuition if:

- The student or student's spouse or parent is a member of the Armed Forces or a commissioned officer of the Public Health Service and is stationed in Texas. (Military and Public Health Service personnel who maintain their official home of record as Texas or who meet the criteria for establishing a domicile in Texas are considered to be Texas residents.)
- The student is employed at least half-time as a teaching or research assistant in a position related to his/her degree program at a Texas public institution of higher education. The spouse and dependent his/her children of the student shall also pay resident tuition.
- The student or student's spouse or parent is employed at least half-time on a regular monthly salaried basis as a teacher or professor at a Texas public institution of higher education.
- The student holds an approved competitive scholarship from Angelo State University of at least $1000 for the academic year or summer awarded by an official Angelo State University scholarship committee.
- The student or student's spouse or parent has located in Texas as an employee of a business or organization that became established in this state as part of the state economic development and diversification program.
- The student is a New Mexico resident who resides in a county bordering Texas. Students must be residing in Texas while enrolled.
- The student is an Oklahoma resident who resides in a county bordering Texas. Students must be residing in Texas while enrolled.

For a complete listing of waiver programs, visit the THECB website.

Procedures for Student Appeal on Matters of Residency for Tuition Purposes

- The original determination concerning the residency of a student shall be made by the Residency Determination Official. The determination in every case shall be based upon the Rules and Regulations for Determining Residence Status as adopted by the Coordinating Board, Texas College and University System.
- Should the student not agree with the determination of his/her residency status, the student may appeal the decision to the Residence Status Appeals committee. This committee will review both sides of the matter in reaching a final decision. The student will be allowed to present the basis of his/her appeal of the decision.
- The decision of the committee shall be final.

Housing Information and Regulations

The Angelo State University residence hall system includes a variety of living options and provides convenient and affordable housing for approximately 2,100 students. Centennial Village and Texan Hall offer private bedrooms; Plaza Verde, Mary Massie and Robert Massie Halls feature double occupancy rooms with private bath. Carr Hall also features double occupancy rooms with private bathrooms as well as double occupancy and single rooms connected by a suited living room. Vanderventer apartments are traditional apartments with two double occupancy bedrooms adjoined by a bath, a shared living room and full kitchen. Special interest housing (Honors and Living Learning Communities) provides students with the opportunity to live with others of similar interests. Texan Hall is home to our Honors floor which houses students participating in the Honors program. Plaza Verde features Living Learning Communities for students majoring in Agriculture and STEM.

All residence halls have wireless connectivity throughout the buildings as well as in the resident's rooms. Other amenities include limitless laundry at no additional cost and conveniently located vending machines. Texan Hall is home to a stadium-seated movie theatre. Residents will find pool tables in the Centennial Village Seibel Commons building, the Plaza Verde Clubhouse building, and the Mary and Robert Massie lobbies.

An experienced and trained staff, including area coordinators, graduate hall directors, and resident assistants manage the daily operations in each hall. Professional staff is available Monday-Friday during business hours. Hall desk hours will be posted at the beginning of each semester. Hall staff is available by phone 24 hours a day, 365 days a year. The on-call phone number is posted in each hall. The residence hall staff provides mentoring, guidance, programming, and student involvement opportunities as well as assistance to residents with concerns, including maintenance requests, room and roommate assignments, and resource information. The interests of students living on campus are promoted through programming and leadership opportunities.

On-Campus Housing Requirements

The university requires students enrolled in 12 or more semester credit hours who are not residents of Tom Green County to live in the university residence halls for the first year, two long semesters, of enrollment regardless of total credit hours. Students enrolled in fewer than 12 semester credit hours may live on campus with permission from the Director of Housing and Residential Programs. On campus students are required to carry a meal plan unless they reside in Vanderventer apartments or secure permission from the Director of Housing and Residential Programs. Institutional research suggests that students who live on campus are significantly more inclined to remain in college and achieve higher GPAs in comparison to students living off campus. Compliance with the university housing policy is a condition of enrollment, as set forth in the Student Handbook and the academic catalog and approved by the Texas Tech University Board of Regents.

Requests for exemptions from the on-campus housing requirements must be submitted, with proper supporting documentation, to the Housing and Residential Programs Office no later than August 1 for the fall semester and January 1 for the spring semester. Specific exemption criteria and information on the appeal process can be found in the operating policy, OP 60.02 Housing Policy.

In conjunction with the university's support of academic integrity, evidence of deliberate falsification of information, data, or any materials submitted, or providing false or erroneous information in connection with an application for exemption from the on-campus housing requirement will be grounds for disciplinary action. Such action may include, but is not limited to, revocation of a previously approved exemption, restitution of up to a semester's room fees, probation or suspension from the university.

Housing Reservations

Residence halls, like all other services and facilities of Angelo State University, are available to all students regardless of race, creed, national origin, age, sex, or disability. Application for admission to the university and application for residence hall accommodations are separate transactions. To apply for housing at Angelo State University, students must first be admitted to the university. Students are encouraged to apply for housing as soon as they are notified of their admission status and have Campus Identification (CID). Please note that there is a $100 nonrefundable application fee. More detailed information concerning the facilities and offerings of campus residence halls can be obtained on our website or by contacting the Housing and Residential Programs Office, ASU Station #11016, San Angelo, TX 76909, or by calling 325-942-2035 (email address: housing@angelo.edu). To complete the housing application, follow the instructions on the Housing and Residential Programs website.

Registered sex offenders are not permitted to live in university-owned housing, which includes the university residence halls. Information submitted is subject to verification.

Students entering in the fall semester will have the opportunity to request their preferred Hall assignment. There are designated new student areas/floors and returning student areas/floors. Housing assignments for new students are made based upon the date and time of application. Students not only have the opportunity to request their preferred halls but also roommates. Please visit our Frequently Asked Questions page to find more details on the new student housing assignment timeline as well as the roommate selection process. Students entering in the spring semester will also have the opportunity to request their preferred halls and roommates but will have slightly different timelines than students entering for the fall semester.

Housing and Residential Programs strives to keep all residents healthy, informed, and safe. All residents living in the halls are required to comply with the meningitis requirement of the university. For more information visit the ASU Bacterial Meningitis website.

Students with mobility or hearing impairments should notify Housing and Residential Programs. Rooms designed to accommodate wheelchairs/scooters or with visual door bell and emergency alert systems are available in Carr Hall, Centennial Village, Mary Massie, Plaza Verde, Robert Massie, and Texan Hall.

Students should notify Housing and Residential Programs if cancellation of the application becomes necessary. Information relating to cancellations is included in the contract and may be found on our website.

Room and Dining Plan

Room and dining plan fees are billed on a semester basis and are included on the same billing account as tuition and fees. Payments must be made in accordance with the established payment due dates and amounts provided on the billing. You will not receive a paper bill by mail. You may view and/or print your bill via RamPort on the Financial Aid and Billing page. If payments are not made by the established due date, a late fee will be assessed. For assistance, contact the Student Accounts Office at 325-942-2008. For questions about specific charges for room and dining plans, contact Housing and Residential Programs at 325-942-2035.

Rates for room and board are based on a per-person charge and are established by the Vice President for Student Affairs and approved by the President. Please visit our website for current room and board rates.

Refunds

Refunds are subject to the terms and conditions of the Student Housing Contractual Agreement.

Student Financial Assistance

The office of Financial Aid and Scholarship provides comprehensive financial assistance to students seeking a higher education. The financial assistance offered at Angelo State includes scholarships, grants, employment, and loans. Assistance is offered to students on the basis of financial need, merit, and other specific program eligibility requirements. Need is defined as the difference between the cost of attending Angelo State, Student Aid Index (SAI) as determined by the Free Application for Federal Student Aid (FAFSA), and the amount of money reasonably available to the student from all sources.

The philosophy of Angelo State University is based on the premise that deserving and capable students who wish to attend the University should not be deprived of this opportunity due to financial need. No student or prospective student shall be excluded from participating in or be denied the benefits of any financial aid program at Angelo State on the grounds of race, color, national origin, religion, or sex. Although qualifications required for each financial aid program may differ, the general requirements for financial assistance at Angelo State are that the student must be admitted and enrolled for at least one-half the normal academic load, be in good academic standing with the university, and demonstrate need as determined by the FAFSA. Visit the FAFSA website for more information.

Blue and Gold Guarantee Program

Angelo State University has a long history of providing access to residents of the State of Texas, regardless of the economic means of their families. The University is committed to ensuring that students can afford to choose Angelo State University.

Angelo State University has committed grant funds to cover fall and spring in-state tuition and fees for undergraduate Texas residents who have an annual family income of $85,000 or less, along with other requirements. This commitment began in fall 2009 and is known as the "Blue and Gold Guarantee!"

The Blue and Gold Guarantee is designed to reassure academically talented students from low- and middle-income families in Texas who may not feel that a university education is possible. Please contact the Office of Financial Aid and Scholarships or visit the Blue and Gold Guarantee page of the ASU website for specific information and eligibility requirements.

ASU Distinguished Scholarships

The ASU Distinguished Scholarship Program is funded by one of the largest scholarship endowments at a U.S. regional university. Scholarships are awarded based on high school GPA, ACT/SAT scores and financial need, and can be renewed each year by students who maintain the academic criteria. ASU Distinguished Scholarships benefit over 50% of ASU students, who can earn up to $52,000 over four years. Visit the Scholarships website.

Types of Financial Assistance

Scholarships

Scholarships do not have to be repaid, and you can have more than one at a time. Generally, scholarships are awarded to students who meet special qualifications, often determined by academic or athletic success or artistic talent while others are offered based on students' academic area of study. Visit the Scholarships website.

Grants

Grants are offered based on need and do not have to be repaid. Federal, state, and institutional grants are available. Visit the Grants website.

U.S. Department of Veterans Affairs (VA) Educational Benefits

New or transferring veteran, active duty or reserve service members, or eligible dependent students should apply for VA educational benefits through the Veteran Affairs website, va.gov. The VA will return a Certificate of Eligibility letter to the student. New and transfer students must send their Joint Service Transcript (JST) or Community College of the Air Force (CCAF) transcript to the ASU Transfer Services office, and provide a copy of the Certificate of Eligibility letter. Guest students will need to provide a parent letter from their educational institution's School Certifying Official.

If a student needs assistance applying for VA Educational Benefits, please visit the Angelo State University Veterans Education and Transitional Service (VETS) Center located on the north side of the Houston Harte University Center. Please visit our VETS Center website.

Points of Contact. Telephone: 325-486-8387 / FAX: 325-942-2080
Email: VETS@angelo.edu

Employment

Federal and state work-study jobs are awarded to students with documented financial need. On-campus employment options are also available for students who are not eligible for work-study. Visit the Employment website.

Many student jobs can be found at the On-Campus Jobs website.

Loans

The long-term loans available include student loans, such as the Federal Direct Stafford loan, parent loans, such as Federal PLUS loans, and private student loans, also known as alternative educational loans. Emergency short-term loans are also available. Visit the Loans website.

Applying for Financial Assistance

Information, instructions, and forms may be obtained by contacting the Office of Financial Aid and Scholarships or by visiting the Paying for College section of the ASU website. Approval for admission or readmission to the university must be secured as a regular student and the evaluation of any transfer hours from the Admissions Office or the College of Graduate Studies and Research to complete the application process.

Students are strongly encouraged to review the terms and conditions of financial aid and to direct questions to the Office of Financial Aid and Scholarships concerning eligibility criteria, terms, rights, privileges, cost of attendance, refund policy for aid recipients, method of financial aid payment.

Satisfactory Academic Progress (SAP) Policy

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. Angelo State University (ASU) makes its minimum standards applicable to all federal, state, and institutional financial aid programs for the purpose of maintaining a consistent policy for all financial aid applicants.

Students requesting financial aid must have their eligibility determined each year. Aid can be awarded to students who continue to demonstrate a financial need for assistance and who remain in good standing and are making satisfactory progress in accordance with the Angelo State University Satisfactory Academic Progress Policy. Visit the SAP Policy website for more information.

Though this policy establishes the minimum standards for all financial aid programs at ASU, individual aid programs may have unique qualitative and/or 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 Distinguished Scholarships program and the TEXAS Grant Program. Information concerning the minimum standards of such programs is available in the Office of Financial Aid and Scholarships. More information may be found at the Paying for College website.

Inventory of Academic Programs

General Programs

I. Doctoral/Professional Programs

Education	Ed.D.
Transformative Leadership	
Physical Therapy	D.P.T.
Psychology	Psy.D.
Counseling Psychology	
Social Work	
Clinical Social Work	D.S.W.

II. Graduate Master's Programs

Administrative Leadership	M.A.
Agriculture	M.Ag.
Animal Science	M.S.
Artificial Intelligence	M.S.
Athletic Training	M.A.T.
Biology	M.S.
Business Administration	M.B.A.
Business Data Science and Analytics	M.S.
Coaching, Sport, Recreation, and Fitness Administration	M.Ed.
Communication	M.A.
Computer Science	M.S.
Criminal Justice	M.S.
Curriculum and Instruction	M.A.
Educational Leadership	M.S.
English	M.A.
Global Security Studies	M.S.
Homeland Security	M.S.
Hospital and Health Care Facilities Administration	M.S.
Intelligence and Analysis	M.S.S.
Mental Health and Wellness Counseling	M.A.
Nursing	M.S.N.
Family Nurse Practitioner	
Nurse Educator	
Professional Accountancy	M.P.Ac.
Professional Counseling with Licensed Professional Counselor (LPC)	M.A.
Psychology	M.S.
Applied Psychology	
Counseling Psychology	
Organizational Psychology and Human Resources	
Public Health	M.P.H.
School Counseling	M.Ed.
Social Work	
Advanced Generalist	M.S.W.
Clinical Social Work	M.S.W.
Student Development and Leadership in Higher Education	M.Ed.

III. Dual Degree Programs (Integrated)

Accounting and Professional Accountancy	B.B.A./M.P.Ac.
Agribusiness and Business Administration	B.S./M.B.A.
Biology	B.S./M.S.
English	B.A./M.A.
Finance and Business Administration	B.B.A./M.B.A.
Health Science Professions and Athletic Training	B.S.H.S.P./M.A.T.
International Business and Business Administration	B.B.A./M.B.A.
Kinesiology-Generalist and Coaching, Sport, Recreation and Fitness Administration	B.S./M.Ed.
Management and Business Administration	B.B.A./M.B.A.
Management Information Systems and Business Administration	B.B.A./M.B.A.
Marketing and Business Administration	B.B.A./M.B.A.

IV. Undergraduate Baccalaureate Degree Programs

A. Majors

Accounting	B.B.A.
Agribusiness	B.S.
Agricultural Science and Leadership	B.S.
Agriculture Science and Communications	B.S.
Animal Science	B.S.
Applied Arts and Sciences	B.A.A.S.
Art, Studio	B.F.A.
Artificial Intelligence	B.S.
Biology	B.S.
Border and Homeland Security	B.S.S.
Border Security	B.B.S.
Chemistry	B.S.
Civil Engineering	B.S.C.E.
Commercial Aviation	B.C.A.
Communication	B.A.
Computer Science	B.S.
Criminal Justice	B.A., B.S.
Cybersecurity	B.S.
Economics	B.B.A.
Education	
Early Childhood to Grade 6 Generalist	B.S.
Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification	B.S.
Grades 4-8, Generalist	B.S.
English	B.A.
Exercise Science	B.S.
Finance	B.B.A.
Food Animal Science and Marketing	B.S.
Geoscience	B.S.
Health Science Professions	B.S.H.S.P.
History	B.A.
Intelligence and Analysis	B.I.A., B.S.S.
Interdisciplinary Studies	B.I.S.
Interdisciplinary Studies Mathematics with Secondary Teacher Certification	B.I.S.
International Business	B.B.A.
Kinesiology	B.S.
Life Science (Biology)	B.S.
Management	B.B.A.
Management Information Systems	B.B.A.
Marketing	B.B.A.
Mass Media	B.A.
Mathematics	B.A., B.S.
Mechanical Engineering	B.S.M.E.
Music	B.A., B.M.
Natural Resource Management	B.S.
Nursing	B.S.N.
Philosophy	B.A.
Physics	B.S.
Political Science	B.A.

Psychology	B.A., B.S.
Social Work	B.S.W.
Sociology	B.S.
Spanish	B.A.
Theatre	B.A.

B. Minors

Minors for degrees may be chosen from the disciplines listed in the undergraduate academic major category with the exception of agribusiness, agriculture science and communications, artificial intelligence, applied arts and sciences, civil engineering, commercial aviation, exercise science, food animal science and marketing, interdisciplinary studies, international business, mechanical engineering, natural resource management, and nursing. Minors for B.B.A. degrees may be chosen from all areas except the Business Administration minor. See page 187 for minor information.

1. The following may also be selected as a single area minor.
   Adult Education
   Agricultural Economics
   Astronomy
   Business Administration
   Business Analytics - Non MIS Majors
   Coaching Preparation
   Creative Writing
   Cybersecurity Systems
   Education
   Ethnic Studies
   Film Studies
   Food Science
   French
   Gender Studies
   German
   Journalism
   Leadership Studies
   Professional Education
   Public Relations
   Range and Wildlife Management
   Reading *
   Russian
   Technical Writing
   World Cultures

2. The following may be used as part of a multiple area minor only.
   Aerospace Studies
   Geography
   Physical Science

V. Non-Degree Programs

Pre-Dentistry
Pre-Medicine
Pre-Pharmacy
Pre-Veterinary

VI. Undergraduate Certificates

Abstract Mathematics (page 121)
Agricultural Communication (page 56)
Applied Mathematics (page 121)
Applied Statistics (page 121)
Banking (page 123)
Computer Game Development (page 112)
Creative Writing: Fiction Concentration (page 62)
Creative Writing: Poetry Concentration (page 62)
Cybercrime Criminology (page 75)
Cybersecurity (page 71)
Cybersecurity Technologies (page 112)
Data Science (page 112)
Emergency Management (page 71)
Financial Awareness (page 128)
Global Crime Studies (page 75)
Human Development (page 49)
Human Diversity (page 49)
Mental Health: Problems and Prevention (page 49)
Online Instructor (page 89)
Organizational Psychology (page 49)
Technical Writing (page 62)
Terrorism and Counter-Terrorism Studies (page 71)
Web and Mobile Development (page 112)
Youth Development Leadership (page 41)

* The Reading minor is available for the B.I.S. degree by special permission of the department chair of Teacher Education.

Teacher Certification Content Areas

VII. Undergraduate Certification Programs

A. Elementary Certifications - Early Childhood to Grade 6

EC-6 Generalist
Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification

B. Middle School Certifications - Grades 4 to 8

4-8 English Language Arts and Reading *
4-8 Generalist
4-8 Mathematics *
4-8 Mathematics-Science *
4-8 Science *
4-8 Social Studies *

C. Secondary Certifications

6-12 Agriculture, Food and Natural Resources
7-12 Chemistry *
8-12 Computer Science *
7-12 English Language Arts and Reading
7-12 History
7-12 Journalism (Mass Media)
7-12 Life Science (Biology)
7-12 Mathematics
7-12 Mathematics-Physics *
6-12 Physical Science *
7-12 Social Studies
7-12 Speech (Communication)

D. All-Level Teacher Certifications - Early Childhood to Grade 12

Art *
EC-12 Technology Applications *
French *
German *
Music
Physical Education *
Spanish
Theatre

E. Additional Certification Post-Master's

Principal
School Counselor
Superintendent

Post-Baccalaureate

Graduates with a Bachelor's degree may obtain a teaching certificate in content areas. Consult with the Certification Advisor in the Educator Preparation Information Center located in Carr-EFA 287 or call 325-942-2209.

* These certification areas are no longer offered in a degree format. Students interested in obtaining certification in these areas may do so in a post-baccalaureate program. You may contact the Educator Preparation Information Center (325-942-2209) for information and assistance.

Academic Organization

Archer College of Health and Human Services

Department of Health Science Professions

Department of Kinesiology

Department of Nursing

Department of Physical Therapy

Department of Psychology

Department of Social Work and Sociology

College of Arts and Humanities

Department of Communication and Mass Media

Natalie Zan Ryan Department of English and Modern Languages
(including French, German, Spanish, Russian)

Dr. Arnoldo De León Department of History
(including Geography)

Department of Political Science and Philosophy

Department of Security Studies and Criminal Justice

Department of Visual and Performing Arts
(including Art, Music, and Theatre)

College of Education

Department of Curriculum and Instruction

Department of Teacher Education

College of Science and Engineering

Department of Agriculture

Department of Biology

Department of Chemistry and Biochemistry

Department of Computer Science

David L. Hirschfeld Department of Engineering

Department of Mathematics

Department of Physics and Geosciences
(including Astronomy and Physical Science)

Norris-Vincent College of Business

Department of Accounting, Economics and Finance

Department of Aerospace Studies

Department of Management and Marketing
(including Commercial Aviation)

Freshman College

Exploratory Tracks
(for Dual Credit students and Undeclared major students)

Archer College of Health and Human Services

Interim Dean: Dr. Katie Lyman
Office: Health and Human Services Building, Room 202
Telephone: 325-486-6258, **Fax:** 325-942-2236
E-Mail: CNAH@angelo.edu

The Archer College of Health and Human Services offers professional education in the health and human service disciplines. The College consists of the following group of departments and professional programs: Department of Health Science Professions, Department of Kinesiology; Department of Nursing; Department of Physical Therapy; Department of Psychology, and Department of Social Work and Sociology.

Through the integration of research, education, and evidenced-based practice, the Archer College of Health and Human Services assists students in developing competence in professional practice as well as becoming leaders in their professions, organizations, and communities. The College values a sound general education that enables students to develop analytical, creative thinking and to make well-founded ethical decisions. We offer a variety of undergraduate and graduate degrees and certificate programs. Our graduates pursue advanced degrees, or enter a variety of practice, research, and administrative roles in the health and human services fields to preserve and promote the well-being of individuals, groups, and communities.

For more information about our outstanding programs, please stop by the dean's office in the Health and Human Services building or call 325-486-6258.

Departments and Programs

Students in the Archer College of Health and Human Services may pursue studies in the following departments.

Department of Health Science Professions

Program of Study in Athletic Training
- M.A.T. Athletic Training

Program of Study in Health Science Professions
- B.S.H.S.P. Health Science Professions with Specialization Areas
  - Healthcare Administration
  - Physical Therapy and Allied Health Professions
  - Public Health
- B.S.H.S.P./M.A.T.
  - Integrated Health Science Professions in Physical Therapy/Allied Health Professions/ Athletic Training
- M.P.H. Public Health

Department of Kinesiology

Programs of Study in Kinesiology
- B.S. Kinesiology with Specialization Areas
  - Generalist
  - Sport and Recreation Leadership
  - Teaching and Coaching
- B.S. Exercise Science with Specialization Areas
  - Clinical Exercise Science
  - Human Performance and Fitness
- B.S./M.Ed.
  - Integrated Kinesiology-Generalist/Coaching, Sport, Recreation, and Fitness Administration
- M.Ed. Coaching, Sport, Recreation, and Fitness Administration

Department of Nursing

Programs of Study in Nursing
- B.S.N. Nursing
  - Generic Option
- M.S.N. Family Nurse Practitioner
- M.S.N. Nurse Educator

Department of Physical Therapy

Program of Study in Physical Therapy
- D.P.T. Physical Therapy

Department of Psychology

Programs of Study in Psychology
- B.A. Psychology
- B.S. Psychology
- M.S. Applied Psychology
- M.S. Counseling Psychology
- M.S. Organizational Psychology and Human Resources
- Psy.D. Psychology
  - Counseling Psychology

Department of Social Work and Sociology

Program of Study in Social Work
- B.S.W. Social Work
- M.S.W. Social Work
  - Advanced Generalist
  - Clinical Social Work
- D.S.W. Social Work
  - Clinical Social Work

Programs of Study in Sociology
- B.S. Sociology with Specialization Areas
  - Criminology, Delinquency, and Deviant Behavior
  - Medical Sociology

Archer College of Health and Human Services:
Department of Health Science Professions

Department Chair: Kristi M. White

Faculty: Chen, Cooper, Cummings, Hyatt, Johnson-Smith, McIntyre, Procter-Willman, Rodriguez, Stanley, White.

Contact Information: Health and Human Services Building, Room 222
E-mail: bshsp@angelo.edu
Telephone: 325-942-2126
https://www.angelo.edu/dept/health-science-professions/

Bachelor of Science Health Science Professions (B.S.H.S.P.)
Health Science Professions
Healthcare Administration

(120 semester hours)

Academic Major	Hours
Health Science Professions 2320, 3345, 4320, 4325, 4330, 4335, 4340, 4345, 4350	27
Health Science Professions 4337 or Mathematics 3321	3
Specialization Area	
Health Science Professions 3310, 3315, 3320, 3325, 3330, 3335, 3340	21

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109 or Chemistry 1305/1105, 1311/1111 or Health Science Professions 2301/2101, 2302/2102	8
Business Computer Information Systems 1305	3
Communication 1315	3
English 1301, 1302 or 2311	6
Finance 3361	3
General Studies 1181	1
Mathematics 1314 or 1324	3
Psychology 2301	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Business Administration Minor

Accounting 2301, 2302	6
Economics 2301, 2302	6
Management 3301	3
Marketing 3321	3

Electives

Electives	3

B.S.H.S.P. Health Science Professions, Healthcare Administration (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
ENGL 1301	3	BCIS 1305	3
HIST 1301	3	COMM 1315	3
MATH 1314, 1324	3	ENGL 1302 or 2311	3
POLS 2305	3	HIST 1302	3
PSY 2301	3	POLS 2306	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
ACCT 2301	3	ACCT 2302	3
HSP 2320	3	HSP 3315	3
HSP 3310	3	BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109 or CHEM 1305/1105, 1311/1111	4
BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109 or CHEM 1305/1105, 1311/1111	4	ECON 2302	3
ECON 2301	3	Language, Philosophy, Culture	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
HSP 3335	3	HSP 3320	3
HSP 4320	3	HSP 3325	3
HSP 4337 or MATH 3321	3	HSP 3345	3
MGMT 3301	3	FINC 3361	3
Creative Arts	3	MKTG 3321	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
HSP 3330	3	HSP 4335	3
HSP 3340	3	HSP 4345	3
HSP 4325	3	HSP 4350	3
HSP 4330	3	Elective	3
HSP 4340	3	TOTAL	12
TOTAL	15		

Bachelor of Science Health Science Professions (B.S.H.S.P.)
Health Science Professions
Physical Therapy and Allied Health Professions

(120 semester hours)

Academic Major	Hours
Biology 2323/2123 and 2324/2124 or Health Science Professions 2301/2101 and 2302/2102	8
Health Science Professions 2320, 2325, 3345, 3420, 4315, 4320, 4325, 4330, 4335, 4340, 4345, 4350	37
Health Science Professions 4337 or Mathematics 3321	3

Major Support Courses

Biology 1306/1106 or 1307/1107	4
Chemistry 1311/1111, 1312/1112	8
Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
Mathematics 1314	3
Physics 1301/1101, 1302/1102	8
Psychology 2301, 2304	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives (advanced)	15

Pre-Physical Therapy

Physical Therapy is a graduate course of study. All undergraduate advising is done by the department of the student's undergraduate degree. The Physical Therapy faculty cannot advise students on undergraduate matters. The faculty of the Physical Therapy department is available for periodic (one per year is sufficient) counseling during a student's undergraduate studies to keep one abreast of physical therapy prerequisites and admissions policies. Once admitted to the physical therapy course of study, each student will be assigned a permanent faculty advisor for his/her graduate course of study.

B.S.H.S.P. Health Science Professions, Physical Therapy and Allied Health Professions (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
BIOL 1306/1106 or 1307/1107	4	HSP 2320	3
ENGL 1301	3	HSP 2325	3
HIST 1301	3	ENGL 1302 or 2311	3
MATH 1314	3	HIST 1302	3
GS 1181	1	PSY 2301	3
TOTAL	14	TOTAL	15

Second Year

Fall		Spring	
*BIOL 2323/2123 or HSP 2301/2101	4	HSP 4315	3
COMM 1315	3	*BIOL 2324/2124 or HSP 2302/2102	4
Language, Philosophy, Culture	3	POLS 2306	3
POLS 2305	3	Creative Arts	3
PSY 2304	3	HSP 4337 or MATH 3321	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
HSP 3420	4	HSP 3345	3
HSP 4320	3	HSP 4330	3
HSP 4325	3	HSP 4335	3
CHEM 1311/1111	4	CHEM 1312/1112	4
TOTAL	14	Elective (advanced)	3
		TOTAL	16

Fourth Year

Fall		Spring	
HSP 4340	3	HSP 4350	3
HSP 4345	3	PHYS 1302/1102	4
PHYS 1301/1101	4	Elective (advanced)	3
Elective (advanced)	3	Elective (advanced)	3
Elective (advanced)	3	TOTAL	13
TOTAL	16		

* If a students takes BIOL 2323/2123, they must take BIOL 2324/2124. If a student takes HSP 2301/2101, they must take HSP 2302/2102.

Integrated Program

Bachelor of Science Health Science Professions (B.S.H.S.P.)
Master of Athletic Training (M.A.T.)
Integrated
Health Science Professions in Physical Therapy and Allied Health Professions/Athletic Training

(Five year (3+2) Option 172 semester hours)

Upon the completion of 84 credit hours in the Physical Therapy and Allied Health Specialization, students may apply for entrance into the M.A.T. program. For these students with a 3.30 GPA, they will be guaranteed admittance into the ASU Athletic Training Entry-Level Masters graduate program pending completion of the application, required paperwork, and interview process. Students, enrolled in the Health Science Professions degree program in the Physical Therapy and Allied Health specialization, who do not meet the 3.30 GPA must complete an Angelo State University graduate school application, required paperwork, and interview process for admittance into the M.A.T. degree program.

Year I

Fall Semester - 17 Semester Credit Hours

- Biology 1306/1106 or 1307/1107 4
- English 1301 3
- History 1301 3
- General Studies 1181 1
- Mathematics 1314 3
- Health Science Professions 2320 3

Spring Semester - 18 Semester Credit Hours

- Communication 1315 3
- English 1302 or 2311 3
- History 1302 3
- Health Science Professions 2325 3
- Psychology 2301 3
- Creative Arts 3

Year II

Fall Semester - 17 Semester Credit Hours

- Chemistry 1311/1111 4
- Biology 2323/2123 or Health Science Professions 2301/2101 4
- Political Science 2305 3
- Psychology 2304 3
- Language, Philosophy, and Culture 3

Spring Semester - 17 Semester Credit Hours

- Chemistry 1312/1112 4
- Biology 2324/2124 or Health Science Professions 2302/2102 4
- Health Science Professions 4320 3
- Health Science Professions 4337 or Mathematics 3321 3
- Political Science 2306 3

Year I or II

Summer Semester - 15-16 Semester Credit Hours

- Health Science Professions 4315 3
- Health Science Professions 4335 3
- Health Science Professions 4340 3
- Health Science Professions 4345 3
- Advanced Elective * 3-4

Year III

Fall Semester - 17-18 Semester Credit Hours

- Health Science Professions 3345 3
- Health Science Professions 3420 4
- Health Science Professions 4325 3
- Physics 1301/1101 4
- Advanced Elective * 3-4

Spring Semester - 16-18 Semester Credit Hours

- Health Science Professions 4330 3
- Health Science Professions 4350 3
- Physics 1302/1102 4
- Advanced Elective * 3-4
- Advanced Elective * 3-4

Summer Semester - 10 Semester Credit Hours

- Athletic Training 6300 3
- Athletic Training 6310 3
- Athletic Training 6400 4

Year IV

Fall Semester - 9 Semester Credit Hours

- Athletic Training 6205 3
- Athletic Training 6312 3
- Athletic Training 6405 3

Spring Semester - 12 Semester Credit Hours

- Athletic Training 6210 3
- Athletic Training 6315 3
- Athletic Training 6318 3
- Athletic Training 6410 3

Year V

Fall Semester - 12 Semester Credit Hours

- Athletic Training 6175 1
- Athletic Training 6215 2
- Athletic Training 6320 3
- Athletic Training 6325 3
- Athletic Training 6330 3

Spring Semester - 9 Semester Credit Hours

- Athletic Training 6176 1
- Athletic Training 6220 2
- Athletic Training 6333 3
- Athletic Training 6335 3

* Students must complete 15 credit hours of advanced electives{3000- or 4000-level courses).

Bachelor of Science Health Science Professions (B.S.H.S.P.)
Health Science Professions
Public Health

(120 semester hours)

Academic Major	Hours
Health Science Professions 2320, 3345, 4315, 4320, 4325, 4330, 4335, 4340, 4345, 4350	30
Health Science Professions 4337 or Mathematics 3321	3
Specialization Area	
Health Science Professions 2305, 4331, 4333, 4334, 4336, 4338, 4341, 4343, 4347	27
Health Science Professions Elective (advanced)	3
Major Support Courses	
Biology 1308/1108 and 1309/1109 or 2323/2123 and 2324/2124 or Health Science Professions 2301/2101 and 2302/2102	8
Chemistry 1305/1105, 1306/1106, 1311/1111	4
Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
Psychology 2301, 2304	6
Sociology 1301	3
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Electives	
Electives	5

B.S.H.S.P. Health Science Professions, Public Health (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
ENGL 1301	3	CHEM 1305/1105, 1306/1106, 1311/1111	4
HIST 1301	3	COMM 1315	3
Mathematics	3	ENGL 1302 or 2311	3
SOC 1301	3	HIST 1302	3
GS 1181	1	HSP 2320	3
HSP 2305	3		
TOTAL	16	TOTAL	16

Second Year

Fall		Spring	
HSP 4331	3	HSP 4337 or MATH 3321	3
*BIOL 1308/1108 or 2323/2123 or HSP 2301/2101	4	*BIOL 1309/1109 or 2324/2124 or HSP 2302/2102	4
PSY 2301	3	POLS 2306	3
Creative Arts	3	PSY 2304	3
POLS 2305	3	Language, Philosophy, Culture	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
HSP 4315	3	HSP 4330	3
HSP 4320	3	HSP 4333	3
HSP 4325	3	HSP 4341	3
HSP 4334	3	HSP Elective (advanced)	3
HSP 4335	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
HSP 3345	3	HSP 4336	3
HSP 4338	3	HSP 4345	3
HSP 4340	3	HSP 4347	3
HSP 4343	3	HSP 4350	3
Elective	2	TOTAL	12
TOTAL	14		

* If a student takes BIOL 1308/1108, they must take BIOL 1309/1109. If a students takes BIOL 2323/2123, they must take BIOL 2324/2124. If a student takes HSP 2301/2101, they must take HSP 2302/2102.

Archer College of Health and Human Services:
Department of Kinesiology

Department Chair: James A. Eldridge

Faculty: Daniel, Eldridge, Keith, McCabe, Miller, Plott, Snow.

Contact Information: Ben Kelly Center for Human Performance Building, Room 201
Telephone: 325-942-2173
http://www.angelo.edu/dept/kinesiology/

Bachelor of Science (B.S.)
Kinesiology
Generalist

(120 semester hours)

Academic Major	Hours
Kinesiology 1301, 1304, 2356, 3362, 3333, 3370, 3372	21
Kinesiology Elective (at least 6 advanced hours)	9

Major Support Courses

Biology 2323/2123, 2324/2124 or Health Science Professions 2301/2101, 2302/2102	8
Life and Physical Science Biology 1306, 1307, 1308, 1309, Chemistry 1305, 1311, 1312, Geography 1301, Geology 1301, 1303, 1304, 1347, Physical Science 1315, 1317, Physics 1301, 1302, 1303, 1304, 2325, 2326, Animal Science 3320, 3443, 3449. 4344 Food Science 3446	6
General Studies 1181	1
Physical Activity	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives (at least 18 advanced hours)	39

B.S. Kinesiology, Generalist (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
KIN 1301	3	KIN 1304	3
ENGL 1301	3	Creative Arts	3
HIST 1301	3	ENGL 1302 or 2311	3
Life and Physical Sciences	3	HIST 1302	3
Mathematics	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
KIN 2356	3	KIN 3362	3
BIOL 2323/2123 or HSP 2301/2101	4	BIOL 2324/2124 or HSP 2302/2102	4
Language, Philosophy, and Culture	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
Physical Activity	2	Social and Behavioral Sciences	3
TOTAL	15	TOTAL	16

Third Year

Fall		Spring	
KIN 3333	3	KIN 3370	3
KIN 3372	3	Kinesiology (advanced)	3
Kinesiology	3	Elective	3
Physical Activity	1	Elective	3
Elective	3	Elective	3
Elective	3	TOTAL	15
TOTAL	16		

Fourth Year

Fall		Spring	
Kinesiology (advanced)	3	Elective	3
Elective	3	Elective (advanced)	3
Elective (advanced)	3	Elective (advanced)	3
Elective (advanced)	3	Elective (advanced)	3
Elective (advanced)	3	TOTAL	12
TOTAL	15		

Bachelor of Science (B.S.)
Kinesiology
Sport and Recreation Leadership

(120 semester hours)

Academic Major	Hours
Kinesiology 1301, 1304, 2356, 2372, 3321, 3333, 3351, 3352, 3362, 3370, 3372, 4301, 4302, 4331, 4343	45
Kinesiology 4373 or 4399	3
Kinesiology Elective	3

Major Support Courses

Biology 2323/2123, 2324/2124 or Health Science Professions 2301/2101, 2302/2102	8
Business 1301, Management 3301, 3304, Marketing 3321, 3324	6
Chemistry 1311, 1312, or Physical Science 1315, 1317, or Physics 1301, 1302	6
General Studies 1181	1
Physical Activity	
PA 1110, 1116, 1119, 1120, 1126, 1127	1
PA 1112, 2111	1
PA 1103, 1108, 1113, 1114, 1115, 1117, 1124, 1125, 1133, 1137	2

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	11

B.S. Kinesiology, Sport and Recreation Leadership (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
KIN 1301	3	KIN 1304	3
ENGL 1301	3	Creative Arts	3
HIST 1301	3	ENGL 1302 or 2311	3
CHEM 1311, PS 1315, PHYS 1301	3	HIST 1302	3
Mathematics	3	CHEM 1312, PS 1317, PHYS 1302	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
KIN 2372	3	KIN 2356	3
BIOL 2323/2123 or HSP 2301/2101	4	BIOL 2324/2124 or HSP 2302/2102	4
Language, Philosophy, and Culture	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
Physical Activity	2	Social and Behavioral Sciences	3
TOTAL	15	TOTAL	16

Third Year

Fall		Spring	
KIN 3321	3	KIN 3351	3
KIN 3333	3	KIN 3352	3
KIN 3362	3	KIN 3370	3
KIN 3372	3	Kinesiology	3
Physical Activity	1	Business Elective	3
Business Elective	3	TOTAL	15
TOTAL	16		

Fourth Year

Fall		Spring	
KIN 4301	3	KIN 4302	3
KIN 4343	3	KIN 4331	3
Elective	3	KIN 4373 or 4399	3
Elective	3	Physical Activity	1
Elective	3	Elective	2
TOTAL	15	TOTAL	12

Bachelor of Science (B.S.)
Kinesiology
Teaching and Coaching

(120 semester hours)

Academic Major — Hours

Kinesiology 1301, 1304, 2356, 2372, 3321, 3333, 3351, 3352, 3362, 3370, 3372, 4343, 4356 39
Kinesiology 4373 or 4399 3

Major Support Courses

Biology 2323/2123, 2324/2124 or Health Science Professions 2301/2101, 2302/2102 8
Chemistry 1311, 1312, or Physical Science 1315, 1317, or Physics 1301, 1302 6
Educational Psychology 3303 3
General Studies 1181 1
Physical Activity
PA 1110, 1116, 1119, 1120, 1126, 1127 1
PA 1112, 2111 1
PA 1103, 1108, 1113, 1114, 1115, 1117, 1124, 1125, 1133, 1137 2

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor 18
Recommend a minor to support second teaching field.

Electives

Electives 5

NOTE: This degree does not lead to Teacher Certification.

B.S. Kinesiology, Teaching and Coaching (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
KIN 1301	3	KIN 1304	3
ENGL 1301	3	Creative Arts	3
HIST 1301	3	ENGL 1302 or 2311	3
CHEM 1311, PS 1315, PHYS 1301	3	HIST 1302	3
Mathematics	3	CHEM 1312, PS 1317, PHYS 1302	3
GS 1181	1	Physical Activity	1
TOTAL	16	TOTAL	16

Second Year

Fall		Spring	
KIN 2372	3	KIN 2356	3
BIOL 2323/2123 or HSP 2301/2101	4	BIOL 2324/2124 or HSP 2302/2102	4
Language, Philosophy, and Culture	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
Physical Activity	1	Social and Behavioral Sciences	3
TOTAL	14	TOTAL	16

Third Year

Fall		Spring	
KIN 3321	3	KIN 3351	3
KIN 3333	3	KIN 3352	3
KIN 3362	3	KIN 3370	3
EPSY 3303	3	KIN 3372	3
Physical Activity	1	Physical Activity	1
Minor	3	Minor	3
TOTAL	16	TOTAL	16

Fourth Year

Fall		Spring	
KIN 4343	3	KIN 4373 or 4399	3
KIN 4356	3	Minor	3
Minor	3	Minor	3
Minor	3	Elective	3
Elective	2	TOTAL	12
TOTAL	14		

Integrated Program

Kinesiology-Generalist (B.S.) and Master of Education (M.Ed.) Coaching, Sport, Recreation, and Fitness Administration

(Five-year (4+1) 150 semester hours)

Students interested in the Integrated B.S./ M.Ed. in Kinesiology-Generalsit/CSRF will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level.

Candidates for this program must meet the current admission requirements for the M.Ed. CSRF program and be unconditionally admitted before taking any graduate M.Ed. courses. The student must achieve a cumulative GPA of 2.50 for undergraduate and a cumulative GPA of 3.00 or better in graduate courses.

A unique feature of the integrated program is that the student will begin taking graduate course work in the senior year. Upon successful completion of all 150 semester credit hours of this integrated program, the student will be awarded both the B.S. in Kinesiology-Generalist and the M.Ed. CSRF degree at the same time; the student will not receive the B.S Kinesiology-Generalist after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.Ed. CSRF portion of the integrated program, then this student would have to complete any remaining degree requirements for the B.S. in Kinesiology-Generalist in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all the undergraduate courses already completed as part of the integrated program would count towards completion of the B.S. in Kinesiology-Generalist degree.

Year I

Fall Semester - 16 Semester Credit Hours

Kinesiology 1301	3
English 1301	3
History 1301	3
Life and Physical Sciences	3
Mathematics	3
GS 1181	1

Spring Semester - 15 Semester Credit Hours

Kinesiology 1304	3
Creative Arts	3
English 1302 or 2311	3
History 1302	3
Life and Physical Sciences	3

Year II

Fall Semester - 15 Semester Credit Hours

Kinesiology 2356	3
Biology 2323/2123 or Health Science Professions 2301/2101	4
Language, Philosophy, and Culture	3
Political Science 2305	3
Physical Activity	2

Spring Semester - 15 Semester Credit Hours

Kinesiology 3362	3
Biology 2324/2124 or Health Science Professions 2302/2102	4
Communication 1315	3
Political Science 2306	3
Social and Behavioral Sciences	3

Summer Semester - 6 Semester Credit Hours

Kinesiology 3333	3
Kinesiology 3372	3

Year III

Fall Semester - 16 Semester Credit Hours

Kinesiology 3370	3
Kinesiology Elective (advanced)	3
Kinesiology Elective	3
Elective	3
Elective	3
Physical Activity	1

Spring Semester - 15 Semester Credit Hours

Kinesiology Elective (advanced)	3
Elective (advanced)	3
Elective	3
Elective	3
Elective	3

Year IV

Fall Semester - 15 Semester Credit Hours

Elective 3
Elective (advanced) 3
Elective (advanced) 3
Elective (advanced) 3
Elective (advanced) 3

Spring Semester - 9 Semester Credit Hours

Elective 3
Elective (advanced) 3
CSRF 6300 Professional Communications 3

Year V

Fall Semester - 9 Semester Credit Hours

CSRF 6335 Organizational Leadership and Philosophy 3
CSRF 6375 Legal and Ethical Aspects of Sport and Recreation3
CSRF Concentration Option 3

Spring Semester - 9 Semester Credit Hours

CSRF Concentration Option 3
CSRF Concentration Option 3
CSRF Elective 3

Summer Semester - 9 Semester Credit Hours

CSRF Concentration Option 3
CSRF Elective 3
CSRF Elective 3

Bachelor of Science (B.S.)
Exercise Science
Clinical Exercise Science

(120 semester hours)

Academic Major — Hours

Kinesiology 1301, 1304, 2356, 2372, 3170, 3333, 3362, 3370, 3372, 3380, 4363, 4382, 4383, 4390 40
Kinesiology 4373 or 4399 3

Major Support Courses

Biology 2323/2123, 2324/2124 or Health Science Professions 2301/2101, 2302/2102 8
Biology 4480, Health Science Professions 4337, or Kinesiology 4352 3-4
Chemistry 1311/1111, 1312/1112, or Physics 1301/1101, 1302/1102 8
General Studies 1181 1
Mathematics 1314, 2312, 2413 3-4
Psychology 2301 3
Psychology 2304, 4313 3
Physical Activity
PA 1110, 1116, 1119 1
PA 1120, 1126, 1127 1
PA 1112, 2111 1

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 17-18

B.S. Exercise Science, Clinical Exercise Science Specialization (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
KIN 1301	3	KIN 1304	3
CHEM 1311/1111, PHYS 1301/1101	4	CHEM 1312/1112, PHYS 1302/1102	4
ENGL 1301	3	ENGL 1302	3
HIST 1301	3	HIST 1302	3
GS 1181	1	MATH 1314, 2312, 2413	3-4
TOTAL	14	TOTAL	16-17

Second Year

Fall		Spring	
KIN 2372	3	KIN 2356	3
BIOL 2323/2123 or HSP 2301/2101	4	BIOL 2324/2124 or HSP 2302/2102	4
Creative Arts	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
Language, Philosophy, and Culture	3	PSY 2301	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
KIN 3333	3	KIN 3370/3170	4
KIN 3362	3	KIN 4352, HSP 4337, BIOL 4480	3-4
KIN 3372	3	PSY 2304, 4313, 4395	3
KIN 3380	3	Elective	3
Physical Activity	1	Physical Activity	1
Elective	3	TOTAL	14-15
TOTAL	16		

Fourth Year

Fall		Spring	
KIN 4382	3	KIN 4363	3
KIN 4383	3	KIN 4373 or 4399	3
Physical Activity	1	KIN 4390	3
Elective	3	Elective	3
Elective	3	Elective	2-3
TOTAL	13	TOTAL	14-15

Bachelor of Science (B.S.)
Exercise Science
Human Performance and Fitness

(120 semester hours)

Academic Major **Hours**

Kinesiology 1301, 1304, 2356, 2372, 3170, 3333, 3362, 3370, 3372, 3380, 4301, 4382, 4383, 4390 40
Kinesiology 4373 or 4399 3

Major Support Courses

Biology 2323/2123, 2324/2124 or Health Science Professions 2301/2101, 2302/2102 8
Biology 4480, Health Science Professions 4337, or Kinesiology 4352 3-4
Business Elective
Business 1301, Management 3301, 3304, Marketing 3321, 3324 6
Chemistry 1311/1111, 1312/1112, or Physics 1301/1101, 1302/1102 8
General Studies 1181 1
Mathematics 1314, 2312, 2413 3-4
Physical Activity
PA 1110, 1116, 1119 1
PA 1120, 1126, 1127 1
PA 1112, 2111 1
PA 1103, 1108, 1113, 1114, 1115, 1117, 1124, 1125, 1133, 1137 1

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 13-14

Certificate Available in Kinesiology

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of all course work for certificates must be taken in residence.

Certificate - Youth Development Leadership (15 SCH required)

The following 9 SCH are required.
KIN 1304 Principles of Wellness 3
KIN 3301 Youth Development in Context 3
KIN 3333 Motor Development 3
Select 6 SCH from the following:
KIN 3352 Motor Skill Acquisition 3
KIN 4343 Adapted Physical Activities 3
KIN 4356 Methods of Teaching Physical Activities 3

Kinesiology Minor

Kinesiology 1304, 2356, 3333, and nine additional hours of kinesiology.

Coaching Preparation Minor

Kinesiology 2356, 3321, 3352, 3362, 3380, and 4302 or 4331.

Pre-Physical Therapy

Physical Therapy is a graduate course of study. All undergraduate advising is done by the department of the student's undergraduate degree. The Physical Therapy faculty cannot advise students on undergraduate matters. The faculty of the Physical Therapy department is available for periodic (one per year is sufficient) counseling during a student's undergraduate studies to keep one abreast of physical therapy prerequisites and admissions policies. Once admitted to the physical therapy course of study, each student will be assigned a permanent faculty advisor for his/her graduate course of study.

B.S. Exercise Science, Human Performance and Fitness Specialization (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
KIN 1301	3	KIN 1304	3
CHEM 1311/1111, PHYS 1301/1101	4	CHEM 1312/1112, PHYS 1302/1102	4
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
GS 1181	1	MATH 1314, 2312, 2413	3-4
TOTAL	14	TOTAL	16-17

Second Year

Fall		Spring	
KIN 2372	3	KIN 2356	3
BIOL 2323/2123 or HSP 2301/2101	4	BIOL 2324/2124 or HSP 2302/2102	4
Creative Arts	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
Language, Philosophy, and Culture	3	Social and Behavioral Sciences	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
KIN 3333	3	KIN 3370/3170	4
KIN 3362	3	KIN 4352, HSP 4337, BIOL 4480	3-4
KIN 3372	3	Business Elective	3
KIN 3380	3	Elective	3
Physical Activity	1	Physical Activity	1
Business Elective	3	TOTAL	14-15
TOTAL	16		

Fourth Year

Fall		Spring	
KIN 4382	3	KIN 4301	3
KIN 4383	3	KIN 4373 or 4399	3
Physical Activity	2	KIN 4390	3
Elective	3	Elective	3
Elective	3	Elective	1-2
TOTAL	14	TOTAL	13-14

Archer College of Health and Human Services: Department of Nursing

Department Chair: Jennifer M. Braziel

Faculty: Baranowski, Braziel, Brown, Cortez, Darby, Espinoza, Goddard, Gonzalez, Greenwald, Martinez, McCormick, McDowell, Michael, Sanchez, Smith, Stafford, Talamantes, Velez.

Contact Information: Health and Human Services Building, Room 318
Program Director: Jennifer M. Braziel
Telephone: 325-942-2224, Fax: 325-942-2236
E-mail: jennifer.braziel@angelo.edu
https://www.angelo.edu/dept/nursing/

Undergraduate Program Coordinator:
Jennifer M. Braziel
E-mail: jennifer.braziel@angelo.edu

Graduate Program Coordinator:
Tammy K. Stafford
E-mail: tammy.stafford@angelo.edu

Graduate Program Advisor, Family Nurse Practitioner Track:
D. Denise Goddard
E-mail: denise.goddard@angelo.edu

Nursing

Angelo State University offers the Bachelor of Science in Nursing (B.S.N.) degree, and the Master of Science in Nursing (M.S.N.) degree.

The Department of Nursing at Angelo State University offers unique career mobility in its programs. A Bachelor of Science in Nursing is awarded upon satisfactorily completion of the generic bachelors program. Graduates of the B.S.N. program are eligible to take the National Council Licensure Examination-Registered Nurse (NCLEX-RN) for licensure to practice as a Registered Nurse (RN).

Registered Nurses holding the Bachelor of Science in Nursing degree may be eligible for admission to the Master of Science program, refer to "Master of Science in Nursing (M.S.N.)" in the Graduate Catalog for eligibility requirements. Upon successful completion of the program, the student is awarded the Master of Science in Nursing degree.

Mission

The nursing program supports the overall mission of Angelo State University by offering graduate and undergraduate nursing programs that produce professionals committed to improving the health of individuals, groups, and communities both locally and globally. As practitioners and educators, our graduates effectively lead and advocate for safe, high-quality health care that respects diversity and is responsive to a dynamic and technologically complex society.

Vision

We will be recognized as visionary leaders committed to delivering innovative nursing education that promotes optimal patient outcomes.

Philosophy

We believe nursing is a unique, caring, scientific, practice discipline built upon a solid foundation of knowledge in the liberal arts and sciences. Each level of nursing education expands upon prior knowledge and competency through the integration of research-based evidence. Our programs produce competent, compassionate, and skilled nurses prepared to meet the healthcare needs of a global society.

We believe the nurse delivers person-centered care as a member of the interprofessional team utilizing therapeutic partnerships and patient advocacy that emphasizes health promotion, health restoration, and disease prevention.

We believe in student-centered, adult learning principles and providing a supportive, engaging educational environment facilitating personal and professional growth for leadership and lifelong learning.

We believe lifelong learning is nurtured in an environment of mutual respect and shared responsibility for the development of clinical reasoning, ethical conduct, and personal accountability.

Pre-Nursing

Pre-nursing students are students who are enrolled at Angelo State, but have not been accepted into the B.S.N. program. The prerequisite courses, also known as Major Support Courses, must be completed before application to the B.S.N. program. These courses determine academic readiness.

All Pre-Nursing advising is done by the Center of Academic Excellence. As students prepare to apply to the B.S.N. program, counseling sessions are available to keep one abreast of nursing prerequisites and admission policies. Once admitted to the nursing program, each student will be assigned a faculty advisor from the Department of Nursing.

Nursing Programs

The baccalaureate degree program in nursing/master's degree program in nursing, and the postgraduate A.P.R.N. certificate program at Angelo State University are accredited by the Commission on Collegiate Nursing Education, 655 K. Street NW, Suite 750, Washington, DC 20001, 202-887-6791.

In addition, all nursing programs have full approval status by the Texas Board of Nursing.

Texas Board of Nursing
1801 Congress Avenue, Suite 10-200

Austin, TX 78701
Telephone: 512-305-7400
Fax: 512-305-7401
https://www.bon.texas.gov/

The Department of Nursing strictly adheres to the Texas Board of Nursing Rules and Regulations Relating to Professional Nurse Education, Licensure and Practice. Because of the dynamic nature of the profession of nursing, and consequently nursing education, the Texas Board of Nursing may make changes to these rules and regulations as the need arises. In order to remain in compliance with these rules and regulations, the Department of Nursing reserves the right to make changes to information presented in the current ASU Catalog as necessary, and communicate these changes on the departmental website. Currently enrolled and prospective students are responsible for checking the ASU nursing website for the most current information. In addition, all students enrolled in nursing courses must have a working ASU e-mail address. The Angelo State University e-mail address is the only recognized e-mail address used by the Department of Nursing. Notification of changes to the catalog will be communicated via e-mail.

The most current Nursing Student Handbooks are available, and may be downloaded, from the departmental website. These handbooks are reviewed and updated annually. However, the Department of Nursing reserves the right to make (upload) changes to these documents when necessary. Students will be notified of any changes by e-mail.

A student who meets university graduation requirements, successfully completes the prescribed nursing curriculum, and satisfies nursing exit exam requirements, will receive the Bachelor of Science in Nursing degree. Upon approval by the Texas Board of Nursing, the student will be eligible to take the National Council Licensing Examination for Registered Nurses (NCLEX-RN). Upon successful completion of this licensing exam, the graduate will receive the designation of "Registered Nurse (RN)". Bachelor of Science in Nursing graduates could be eligible to pursue graduate study leading to the Master of Science in Nursing degree.

Bachelor of Science in Nursing Degree (B.S.N.) Generic Option

(120 semester hours)

The Bachelor of Science in Nursing (B.S.N.) Generic Option degree is fully accredited by the Commission on Collegiate Nursing Education (CCNE) and has full approval status from the Texas Board of Nursing. Upon approval by the Texas Board of Nursing, the student will be eligible to take the National Council Licensing Exam for Registered Nurses (NCEX-RN).

Academic Major

Junior Year

	Hours
Nursing 3108, 3214, 3220, 3301, 3304, 3317, 3405, 3407, 3410, 3414	30

Senior Year

Nursing 4212, 4302, 4305, 4307, 4320, 4322, 4325, 4404, 4411	28

Major Support Courses

Biology 2420	4
Biology 2323/2123, 2324/2124, or Health Science Professions 2301/2101, 2302/2102	8
Chemistry 1306/1106	4
Communication 1315	3
Creative Arts: Arts 1301, 1302, 1303, 1304, Honors 2302, Music 1306, 1310, 1313, Theatre 1310	3
English 1301, 1302 or 2311	6
General Studies 1181	1
Health Science Professions 4315	3
History 1301, 1302	6
Language, Philosophy, and Culture: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341 History 2311, 2312, 2322, Philosophy 1301, 2306	3
Mathematics 1314, 1324, 1332, 1342 *	3
Nursing 2324	3
Political Science 2305, 2306	6
Psychology 2301, 2315	3
Psychology 2304	3
Statistics: Health Science Professions 4337, Mathematics 1342 *, 3321, Psychology 2321	3

* Mathematics 1342 may be used to fulfill the Mathematics or Statistics requirement but not both.

B.S. Nursing, Generic Option (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
BIOL 2323/2123 or HSP 2301/2101	4	BIOL 2324/2124 or HSP 2302/2102	4
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
MATH 1314, 1324, 1332, 1342	3	POLS 2305	3
GS 1181	1	PSY 2301, 2315	3
TOTAL	14	TOTAL	16

Second Year

Fall		Spring	
NUR 2324	3	Creative Arts	3
Language, Philosophy, and Culture	3	CHEM 1306/1106	4
POLS 2306	3	COMM 1315	3
PSY 2304	3	HSP 4315	3
HSP 4337, MATH 1342, 3321, PSY 2321	3	BIOL 2420	4
TOTAL	15	TOTAL	17

Third Year

Fall		Spring	
NUR 3108	1	NUR 3220	2
NUR 3214	2	NUR 3301	3
NUR 3304	3	NUR 3407	4
NUR 3317	3	NUR 3410	4
NUR 3405	4	TOTAL	13
NUR 3414	4		
TOTAL	17		

Fourth Year

Fall		Spring	
NUR 4212	2	NUR 4325	3
NUR 4305	3	NUR 4302	3
NUR 4320	3	NUR 4307	3
NUR 4322	3	NUR 4404	4
NUR 4411	4	TOTAL	13
TOTAL	15		

Admission to the Initial Licensure Programs

The student pursuing the Bachelor of Science in Nursing degree must first apply to Angelo State University if not already a university student. Once all requirements for regular University admission are met, the student can apply to the Department of Nursing for admission to the Nursing Program. The application process for the University and the Nursing Department are two separate application processes. Admission to the University does not guarantee admission to the Bachelor of Science in Nursing degree program.

Physical/Mental Performance

In order to accomplish the objectives of the program students must be able to meet and maintain the following performance requirements:

- Visual acuity with corrective lenses to identify cyanosis, absence of respiratory movement in patients, and to read small print on medication containers, physician orders, monitors, and equipment calibrations.
- Hearing ability with auditory aids to understand the normal speaking voice without viewing the speaker's face and to hear monitor alarms, emergency signals, call bells from patients, and stethoscope sounds originating from a patient's blood vessels, lungs, and abdomen.
- Nursing students must be able to provide general care including: physical ability to stand for prolonged periods of time, perform cardiopulmonary resuscitation, lift patients, and move from room to room or maneuver in limited spaces.
- Ability to communicate effectively in verbal and written form. Ability to write legibly and correctly in patient's chart for legal documentation. Students must be able to process and accurately convey information about the patient in a timely manner.
- Manual dexterity to use sterile techniques and insert catheters.
- Ability to prepare and administer IV, PO, SQ, and IM medications.
- Ability to function safely under stressful conditions, adapting to ever-changing clinical situations involving patient care.

Eligibility for RN Licensure

The Texas Board of Nursing (BON) licenses Registered Nurses in accordance with very strict guidelines. The BON requires that a person complete a nursing education program at an accredited college. Also, the BON has identified certain circumstances that may render a potential candidate ineligible for licensure as a registered nurse in the Stale of Texas. A person may petition the BON for a declaratory order as to the person's eligibility for license if the person is enrolled or planning to enroll in an educational program that prepares a person for an initial license as a registered nurse. Answering "yes" to any of the following questions will necessitate a person to petition for a Declaratory Order. More information may be found on the BON website.

- Have you ever been cited or charged with any violation of the law?
- Have you been convicted, adjudged guilty by a court, pled guilty, no contest or nolo contendere to any crime in any state, territory or country, whether or not a sentence was imposed, including any pending criminal charges or unresolved arrest (excluding minor traffic violations)? This includes expunged offenses and deferred adjudications with or without prejudice of guilt. Please not that DUIs, DWIs, PIs must be reported and are not considered minor traffic violations.?
- Do you have any criminal charges pending, including unresolved arrests?
- Has any licensing authority refused to issue you a license or ever revoked, annulled, cancelled, accepted surrender of, suspended, placed on probation, refused to renew a professional license, certificate or multi-state privilege held by your now or previously, or ever fined, censured, reprimanded or otherwise disciplined you?
- Within the past five (5) years have you been addicted to and/or treated for the use of alcohol or any other drug?
- Within the past five (5) years have you been diagnosed with, treated, or hospitalized for schizophrenia and/or psychotic bipolar disorder, paranoid personality disorder, antisocial personality disorder, or borderline personality disorder?

Admission Criteria

Admission to the Generic B.S.N. program is highly competitive. For a candidate to be considered, a fully completed application packet is due to the Department of Nursing on or before the published deadlines. The Generic B.S.N. application deadlines are February 1st for fall admission OR August 31st for spring admission.

Applications will not be considered complete and will not be evaluated until all the following required information has been submitted. Submission of documents to the Department of Nursing is the responsibility of the applicant. Incomplete applications will not be considered in the selection process.

Meeting pre-acceptance requirements does not guarantee admission to the Generic B.S.N. program.

B.S.N. Generic Degree Pre-Acceptance Requirements:

I. You must apply to the university before applying to the B.S.N. program. All requirements for regular admission to Angelo State University must be met.

II. Completion, or enrollment in, the following prerequisite courses:

A. Biology 2323/2123 - Human Anatomy and lab, Biology 2324/2124 - Human Physiology and lab; or Health Science Professions 2301/2101 - Human Anatomy and Physiology I and lab, Health Science Professions 2302/2102 - Human Anatomy and Physiology II and lab.

B. Chemistry 1306/1106 - Chemistry for Health Professions and lab.

C. Communication 1315 - Public Speaking.

D. General Studies 1181 - Freshman Seminar.

E. English 1301 - English Composition, English 1302 - Writing Across the Curriculum or English 2311 - Introduction to Technical and Business Writing.

F. Health Science Professions 4315 - Human Nutrition and Dietary Supplementation.

G. History 1301 - History of the United States to 1865 and 1302 - History of the United States, 1865 to Present.

H. Language, Philosophy, and Culture:
Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Philosophy 1301, 2306.

I. Mathematics 1314 - College Algebra or 1324 - Finite Mathematics I or 1332 - Introduction to Contemporary Mathematics or 1342 - Elementary Statistics.*
J. Nursing 2324 - Pathophysiology.
K. Biology 2420 - Microbiology for Non-Science Majors.
L. Political Science 2305 - Federal Government and 2306 - Texas Government.
M. Psychology 2315 - Psychology of Adjustment or 2301 - General Psychology, and 2304 - Developmental Psychology.
N. Statistics: Health Science Professions 4337 - Statistical Techniques for Health Science Professionals or Mathematics 3321 - Statistics or Psychology 2321 - Research Methods and Statistical Analysis or Mathematics 1342 - Elementary Statistics.*
O. 3 semester credit hours of Creative Arts.

III. Minimum grade of "C" is required for all nursing prerequisite courses listed below:
A. Biology 2323/2123 - Human Anatomy and lab, Biology 2324/2124 - Human Physiology and lab; or Health Science Professions 2301/2101 - Human Anatomy and Physiology I and lab, Health Science Professions 2302/2102 - Human Anatomy and Physiology II and lab.
B. Chemistry 1306/1106 - Chemistry for Health Professions and lab.
C. Health Science Professions 4315 - Human Nutrition and Dietary Supplementation.
D. Mathematics 1314 - College Algebra or 1324 - Finite Mathematics I or 1332 - Introduction to Contemporary Mathematics or 1342 - Elementary Statistics.
E. Nursing 2324 - Pathophysiology or any other pathophysiology course. A maximum of two attempts is permitted.
F. Biology 2420 - Microbiology for Non-Science Majors.
G. Statistics: Health Science Professions 4337 - Statistical Techniques for Health Science Professionals or Mathematics 3321 - Statistics or Psychology 2321 - Research Methods and Statistical Analysis or Mathematics 1342 - Elementary Statistics.*

IV. All science courses must be within 10 years of the start of the nursing program. Science courses include: BIOL 2323/2123 and 2324.2124 or HSP 2301/2101 and 2303/2102; BIOL 2420; CHEM 1306/1106; and NUR 2324. For applicants who hold a current, active, unencumbered LVN license, the 10-year requirement is waived for BIOL 2323/2123 and 2324/2124 or HSP 2301/2101 and 2302/2102 and CHEM 1306/1106.

V. 1500 word or less Personal Statement addressing the following 5 questions:
A. How has your life experiences shaped who you are today? *Include any activities such as community, volunteer, military, healthcare, etc. that you feel make you a strong candidate.*
B. How do you see yourself contributing to the profession of nursing?
C. Why should you be admitted to this program?

Emotional and mental stress are common occurrences within one's academic career. Nursing school is notorious for amplifying students' emotion/mental stress levels due to rigorous academic coursework in order to succeed in obtaining practice licensure.

D. Describe an emotional or mental stressor you have overcome in your life.
E. Discuss your personal attributes/strengths that helped you overcome that situation that you believe will benefit your ability to overcome nursing school stressors in the future.

VI. A minimum cumulative grade point average (GPA) of 2.50 on all previous college work.
VII. Submit ASU Department of Nursing Student Immunization Record form. (The form can be found on the website).
VIII. Submit proof of current health insurance.
IX. TEAS version V or higher nursing entrance assessment.
X. Copy of permanent resident card for non-citizens.
XI. Official TOEFL scores for international applicants.

The Department of Nursing requires a Nursing Admissions Assessment test for students applying for the B.S.N. track option. Exam results are used to determine readiness for admission and future success in the nursing program. Students may take and submit results from the Test of Essential Academic Skills (TEAS, version V or higher) exam as part of meeting the admission requirements for the program.

Applicants will be allowed a total of two attempts for the TEAS exam, regardless of the number of applications to the nursing program. However, applicants must wait a minimum of 30 days in between attempts. Combining scores from both attempts will NOT be considered. Only the most current attempt will be used to consider qualification. Applicants must earn the minimum (see below) subject scores or higher on either the first attempt or if necessary their second attempt to qualify for evaluation for admission.

TEAS Minimum Requirements: Must make 70% or higher on reading section AND a 70% or higher on math section to qualify for consideration. For qualified candidates, all sections of the TEAS are evaluated and considered during the admission process.

Meeting pre-admission requirements does not guarantee admission to the B.S.N. Program.

Additional requirements upon admission to the program include the following:

- Successful completion of federal background check, including fingerprinting, will be required upon admission.
- Drug screening will be conducted upon admission prior to the first clinical learning experience.
- Submission of complete immunization records will be required upon admission.
- American Heart Association Healthcare Provider-level CPR certification will be required upon admission.
- Documentation of health insurance will be required upon admission.

* Mathematics 1342 may be used to fulfill the Mathematics or Statistics requirement but not both.

Selection Process

A number of factors, including regulatory agencies' requirements, availability of clinical sites, and university resources dictate the number of candidates who can be accepted into the B.S.N. program. Because the number of applications exceeds the number of candidates that can be accepted into the program, each complete application submitted by the published deadline meeting the above pre-acceptance requirements, will be evaluated by a faculty committee utilizing an objective scoring system. Points are awarded in a number of areas including:

- Non-nursing curriculum course work grade point average (GPA).
- Number of non-nursing semester credit hours completed with a "C" or better.
- 1500 word or less Personal Statement addressing the following 5 questions:
    - How has your life experiences shaped who you are today? *Include any activities such as community, volunteer, military, healthcare, etc. that you feel make you a strong candidate.*
    - How do you see yourself contributing to the profession of nursing?
    - Why should you be admitted to this program?

  Emotional and mental stress are common occurrences within one's academic career. Nursing school is notorious for amplifying students' emotion/mental stress levels due to rigorous academic coursework in order to succeed in obtaining practice licensure.

    - Describe an emotional or mental stressor you have overcome in your life.
    - Discuss your personal attributes/strengths that helped you overcome that situation that you believe will benefit your ability to overcome nursing school stressors in the future.
- Grades in pre-requisite science courses.
- A maximum of two attempts on NUR 2324 Pathophysiology is permitted
- Number of withdrawals and failures on transcripts.

Technical Requirements

The Department of Nursing at Angelo State University recommends students have high-speed, broadband (cable modem or Digital Subscriber Line) Internet connection. While not required, subscription to a broadband service will improve the speed of delivery. Students taking online courses should have access to a computer that meets the minimum requirements listed in the Undergraduate Nursing Student Handbook.

Standards for Progression in the B.S.N. Degree Program

The following standards must be maintained by each nursing student in order to progress in the Generic Bachelor Degree Nursing Program:

- Proof of current health insurance.
- Compliance with all rules and regulations outlined in the Undergraduate Nursing Student Handbook and the current Angelo State University Catalog.
- Successful completion of each required nursing course with a grade of "C" or higher.
- An institutional grade point average of 2.00 or better on the 4.00 scale.
- Current American Heart Association CPR provider level certification.
- Validation of Texas Department of Health immunization requirements for students enrolled in health related courses must be on file in the departmental office prior to clinical assignments.
- Ability to meet requirements of area health agencies related to criminal background checks, and other screenings (e.g. drug) that may be required of specific agencies.
- Demonstration of safe performance in clinical settings at all times.
- Adherence to the Code of Ethics of the American Nurses Association.
- Compliance with all rules and regulations of the current Nurse Practice Act of the State of Texas when in the performance of duties in the Nursing Program.
- Compliance with the Angelo State University Honor Code.
- Compliance with all requirements of the clinical facility while engaged in student clinical experiences. These include, but are not limited to, criminal background checks and drug screening. The student is responsible for all costs associated with these requirements.
- Compliance with the ASU Student Academic Honor Code.

Should a nursing student be dismissed for failure to maintain any of these standards, the student may appeal the dismissal. Students should follow the Grievance/Appeal Procedure policy found in the undergraduate Nursing student handbook.

Archer College of Health and Human Services:
Department of Psychology

Department Chair: James N. Forbes

Psychology Faculty: Araiza, Brewer, Burkhalter, Curtis, Draper, Forbes, Hack, Kelley, Kreitler, Livingston, Lozano, Moore, Schell, Singg, Stenmark, Trubenstein, van Ittersum, Vo.

Contact Information: Academic Building, Room 204
Telephone: 325-942-2068
https://www.angelo.edu/departments/psychology/

Bachelor of Arts (B.A.)
Psychology
(120 semester hours)

Academic Major	Hours
Psychology 2110	1
Psychology 2301	3
Psychology 2321	3
Psychology 3323, 3329, 4332	6
Psychology elective (must be advanced if needed for 18 advanced hours in major or 36 total advanced hours)	9
Select 7 courses or 21 SCH from the following:	
Psychology 2304, 2319, 3303, 3307, 3309, 4301, 4303, 4305, 4309, 4313, 4329, 4333, 4335	21

Major Support Courses

General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Languages 2311, 2312 in a single modern language (also 1301, 1302 if necessary)	6-12

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced) 18

Electives

Electives (must be advanced if needed to meet the 36 advanced hour requirement) 7-13

B.A. Psychology (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
COMM 1315	3	Creative Arts	3
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
PSY 2301	3	Life and Physical Sciences	3
Mathematics	3	Psychology *	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Elective **	3	Language, Philosophy, and Culture	3
Life and Physical Sciences	3	Minor	3
POLS 2305	3	Elective **	3
PSY 2110	1	POLS 2306	3
Psychology *	3	PSY 2321	3
Psychology *	3	TOTAL	15
TOTAL	16		

Third Year

Fall		Spring	
Humanities	3	PSY 3323, 3329, 4332	3
Minor	3	Modern Language 2312 **	3
Modern Language 2311 **	3	Minor	3
Psychology *	3	Minor	3
Psychology *	3	Elective	1
TOTAL	15	TOTAL	13

Fourth Year

Fall		Spring	
Psychology *, ***	3	PSY 3323, 3329, 4332	3
Minor (advanced)	3	Psychology *, ***	3
Psychology Elective ***	3	Minor (advanced)	3
Psychology Elective ***	3	Psychology Elective ***	3
Elective ***	3	Elective ***	3
TOTAL	15	TOTAL	15

* Students must choose 21 hours from the following: PSY 2304, 2319, 3303, 3307, 3309, 4301, 4303, 4305, 4309, 4313, 4329, 4333, 4335.

** Modern Language 1301/1302 are prerequisites to 2311/2312.

*** Must be advanced course work if needed to meet advanced hour requirement.

Bachelor of Science (B.S.) Psychology

(120 semester hours)

Academic Major	Hours
Psychology 2110	1
Psychology 2301	3
Psychology 2321, 3321, 4321	9
Psychology elective (must be advanced if needed for 18 advanced hours in major or 36 total advanced hours)	9
Select 7 courses or 21 SCH from the following:	
Psychology 2304, 2319, 3303, 3307, 3309, 4301, 4303, 4305, 4309, 4313, 4329, 4333, 4335	21

Major Support Courses

Animal Science 3320, 3443, 3449, 4344, Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, 2323/2123, 2324/2124 Chemistry 1311/1111, 1312/1112, 1305/1105 Food Science 3446, Geography 1301.1101, Geology 1301/1101, 1303/1103, 1304/1104, 1347, Health Science Professions 2301/2101, 2302/2102, Physical Science 1315/1115, 1317/1117, Physics 1301/1101, 1302/1102, 1303/1103, 1304/1104, 2325/2125, 2326/2126, (must include two sections of lab and at least two disciplines)	14
General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced)	18

Electives

Electives (must be advanced if needed to meet the 36 advanced hour requirement)	14

Graduation Requirement for the Major

Candidates for the Bachelor of Arts or the Bachelor of Science degree in Psychology are required to successfully complete an exit exam in Psychology in order to be eligible for graduation. Students may take this examination after completing all major requirements or in the semester immediately prior to graduation. The exam score will not affect GPA, but will be part of the student's record.

B.S. Psychology (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
COMM 1315	3	Creative Arts	3
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
PSY 2301	3	Life and Physical Sciences	4
Mathematics	3	Psychology *	3
TOTAL	15	TOTAL	16

Second Year

Fall		Spring	
PSY 2110	1	Language, Philosophy, and Culture	3
Psychology *	3	Life and Physical Sciences	3
GS 1181	1	POLS 2306	3
Life and Physical Sciences	4	PSY 2321	3
POLS 2305	3	Psychology *	3
Minor	3	TOTAL	15
TOTAL	15		

Third Year

Fall		Spring	
Life and Physical Sciences	3	PSY 4321	3
PSY 3321	3	Minor	3
Psychology *	3	Minor	3
Minor	3	Psychology *	3
Elective **	3	Psychology Elective **	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Psychology *	3	Psychology *	3
Minor (advanced)	3	Minor (advanced)	3
Psychology Elective **	3	Psychology Elective **	3
Elective **	3	Elective **	3
Elective **	3	Elective **	2
TOTAL	15	TOTAL	14

* Students must choose 21 hours from the following: PSY 2304, 2319, 3303, 3307, 3309, 4301, 4303, 4305, 4309, 4313, 4329, 4333, 4335.

** Must be advanced course work if needed to meet advanced hour requirement.

Certificates Available in Psychology

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of all course work for certificates must be taken in residence.

Certificate - Human Development
(12 SCH required)

PSY 2304 Developmental Psychology 3
PSY 3315 Child Psychology 3
PSY 3319 Adolescent Psychology 3
PSY 4331 Psychology of Aging 3

Certificate - Human Diversity
(12 SCH required)

COMM 3355 Intercultural Communication or
GST 2301 Introduction to Gender Studies or
ESTD 2301 Introduction to Ethnic Studies 3
PSY 3323 Cultural Psychology 3
PSY 3325 Psychology of Diversity 3
PSY 4332 Applying Cultural Awareness 3

Certificate - Mental Health: Problems and Prevention
(12 SCH required)

PSY 3313 Introduction to Counseling Psychology 3
PSY 4305 Abnormal Psychology 3
PSY 4313 Behavioral Neuroscience 3
PSY 4335 Health Psychology 3

Certificate - Organizational Psychology
(12 SCH required)

PSY 2319 Social Psychology 3
PSY 3307 Motivation 3
PSY 3309 Industrial-Organizational Psychology 3
PSY 4332 Applying Cultural Awareness 3

Pre-Physical Therapy

Physical Therapy is a graduate course of study. All undergraduate advising is done by the department of the student's undergraduate degree. The Physical Therapy faculty cannot advise students on undergraduate matters. The faculty of the Physical Therapy department is available for periodic (one per year is sufficient) counseling during a student's undergraduate studies to keep one abreast of physical therapy prerequisites and admissions policies. Once admitted to the physical therapy course of study, each student will be assigned a permanent faculty advisor for his/her graduate course of study.

Internship in Psychology

Internships are available during the fall and spring semesters to qualified students who have (a) completed at least 15 credit hours in psychology and (b) have a cumulative GPA of at least 2.50. Upon acceptance as an intern, a faculty coordinator from the Department of Psychology will consult with an appropriate representative of a human service agency or entity in the San Angelo area to arrange an internship assignment for the following fall or spring semester. Duties will be performed for the agency or entity under the supervision of the faculty coordinator and an appropriate representative from the field setting. The intern will be evaluated by the faculty coordinator and the field-setting supervisor. Three semester hours of credit will be received for successful completion of 150 clock hours of internship experience, and six semester hours of credit will be received for successful completion of 300 clock hours. A maximum of three of these semester credit hours may be counted toward a major in Psychology. To receive credit toward the major, psychology majors should register for Psychology 4371 or 4671. Students cannot receive credit for both internships. Admission to the internship requires approval by the internship coordinator and the Chair of the Department of Psychology. Applications may be obtained in the main office of the Department.

Archer College of Health and Human Services:

Department of Social Work and Sociology

Department Chair: Thomas W. Starkey, Jr.

Social Work Faculty: Albright, Aleman, Carr, Davis, Gallander, Jones, Russo, Salimbeni, Scaggs, Shar, Starkey, Wright.

Sociology Faculty: Carr, Pierce, Shoemake.

Contact Information: Health and Human Services Building, Room 122; Telephone: 325-486-6119
http://www.angelo.edu/dept/social-work/index.php

Bachelor of Social Work Director: Taten L. Albright
E-mail: taten.albright@angelo.edu
Telephone: 325-486-6926

B.S.W. Field Education Director: Jaci E. Wright
E-mail: jaci.wright@angelo.edu
Telephone: 325-486-6239

Sociology Program Director: Philip Pierce
E-mail: philip.pierce@angelo.edu
Telephone: 325-486-6274

The Bachelor of Social Work (B.S.W.) at ASU is designed to prepare students to work as a generalist social worker. The B.S.W. program at ASU emphasizes the biopsychosocial approach when encountering clients. Students are offered courses that will expose them to biopsychosocial theories of human behavior; assessment and evaluation methods; policy; communication skills, and micro and macro level intervention skills essential in today's outcome based social service environment. A grade of "C" or above in each required social work course and a minimum of 2.50 in all social work courses is required. Upon graduation, students will be eligible to sit for the Texas State Board of Social Work Examiners Licensing Exam. The B.S.W. program at ASU is accredited through the Council on Social Work Education (CSWE).

Students will have three (3) attempts to successfully pass the comprehensive exam with a score of 70 or higher to graduate from the B.S.W. program.

Bachelor of Social Work (B.S.W.)

(120 semester hours)

Academic Major	Hours
Social Work 2307, 2316	6
Social Work 3306, 3307, 3309, 3311, 3313, 3315, 3355, 4370, 4371, 4372, 4373	33
Social Work electives	21
Major Support Courses	
Economics 1300, 2301, 2302, Psychology 2301, Sociology 1301	3
General Studies 1181	1
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Electives	
Electives	17

B.S.W. degree students do not have a minor. As a requirement of the B.S.W. degree, students must take and successfully pass a comprehensive examination. Minimum grade of "C" is required in all social work courses counted toward the major or minor. A total of 54 advanced hours are required for the B.S.W. degree.

B.S.W. Social Work (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	Creative Arts	3
Life and Physical Sciences	3	Life and Physical Sciences	3
GS 1181	1	Elective	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
SWK 2307	3	POLS 2306	3
POLS 2305	3	SWK Elective	3
ECON 1300, 2301, 2302, PSY 2301, SOC 1301	3	SWK 2316	3
		Core 090	3
Elective	3	TOTAL	15
TOTAL	15		

Third Year *

Fall		Spring	
SWK 3306	3	SWK 3311	3
SWK 3307	3	SWK 3313	3
SWK 3309	3	SWK 3315	3
SWK 3355	3	SWK 4370	3
SWK Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year **

Fall		Spring	
SWK 4371	3	SWK 4372	3
SWK Elective	3	SWK 4373	3
SWK Elective	3	SWK Elective	3
SWK Elective	3	SWK Elective	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Junior Year: Students who meet admission criteria are admitted to the B.S.W. major. All Freshman and Sophomore courses are completed, except Social Work 3306.

**Senior Year: Internships, Social Work electives, and Social Work Practice III. All required Social Work courses in junior year are completed.

Academic Minor in Social Work

Students may obtain an academic minor in Social Work which is grounded in the person-in-environment perspective. Courses in the minor provide students with an understanding of people who may require social services. Students are offered courses that will expose them to biopsychosocial theories of human behavior; assessment and evaluation methods; communication skills; and micro and macro level intervention skills essential in today's outcome based social service environment. This minor is highly applied, structured, and provides exposure to the social work profession.

The Social Work Minor consists of Social Work 2307, Social Work 2316, Social Work 3307, and 9 semester credit hours from any Social Work advanced electives; and includes a total of 18 semester credit hours of course work. Minimum grade of "C" is required in all social work courses counted toward the minor. A dual minor is not available in social work.

Bachelor of Science (B.S.) Sociology

(120 semester hours)

Academic Major	Hours
Sociology 1301, 1306	6
Sociology 3302, 3325, 4301, 4360	12
Sociology (advanced)	15
Major Support Courses	
Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, 2323/2123, 2324/2124, or Health Science Professions 2301/2101, 2302/2102	8
Chemistry, Physical Science, Physics	6
General Studies 1181	1
Social Work 2307	3
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Minor	
Minor (6 hours must be advanced)	18
Electives	
Electives (3 hours must be advanced if needed to meet the 36 advanced hour requirement)	21

Specialization Areas

Students with a major in sociology (B.S.) have the option to select one or more specialization from the list below. The specialization areas are designed to provide students with the opportunity to focus their studies and develop specific skill sets that are highly marketable in the workplace, and in gaining admission to graduate programs. However, they do not constitute separate academic majors or minors, and they do not replace the requirement that students have a major and a minor. The student who does wish to complete a specialization should take 15 semester credit hours in the selected area as listed below. The student who does not wish to select one of the specializations should merely complete the major requirements for the B.S. degree in sociology.

Criminology, Delinquency, and Deviant Behavior

Sociology 3316	3
Sociology 3341	3
Sociology 3343	3
Sociology 4341	3
Sociology Elective (advanced)	3

Medical Sociology

Sociology 3315	3
Sociology 4362	3
Sociology 4363	3
Sociology 4365	3
Sociology Elective (advanced)	3

B.S. Sociology (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	Creative Arts	3
HIST 1301	3	ENGL 1302 or 2311	3
Mathematics	3	HIST 1302	3
SOC 1301	3	Chemistry, Physical Science, Physics	3
Chemistry, Physical Science, Physics	3	COMM 1315	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Sociology (advanced)	3	Language, Philosophy, and Culture	3
BIOL 1307/1107, 1308/1108, 2323/2123, or HSP 2301/2101	4	BIOL 1306/1106, 1309/1109, 2324/2124, or HSP 2302/2102	4
POLS 2305	3	POLS 2306	3
SOC 1306	3	SWK 2307	3
Minor	3	Minor	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
SOC 3302	3	Sociology (advanced)	3
SOC 3325	3	Sociology (advanced)	3
Minor	3	Minor	3
Elective	3	Minor (advanced)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Sociology (advanced)	3	SOC 4301	3
Sociology (advanced)	3	SOC 4360	3
Minor (advanced)	3	Elective	3
Elective	3	Elective	3
TOTAL	12	Elective	3
		TOTAL	15

Academic Minor in Sociology

Students may obtain an academic minor in Sociology which is grounded in core areas of sociology. Courses in the minor provide students with an understanding of social problems, interpersonal behavior, sociological perspectives, and sociology as a social/behavioral science. Students are offered courses that will expose them to social theories; communication skills; and various applied areas of sociology. This minor is highly structured, and provides exposure to sociology as a science and profession. The Sociology minor consists of Sociology 1301, 1306, 3302, 3325, 4301, and 3 semester credit hours from any of the advanced sociology courses; and includes a total of 18 semester credit hours of course work.

Graduation Requirement for the Major

Candidates for the Bachelor of Science degree in Sociology are required to successfully complete an exit exam in Sociology in order to be eligible for graduation. Students may take this examination after completing all major requirements or in the semester immediately prior to graduation. The exam score will not affect GPA, but will be part of the student's record.

College of Arts and Humanities

Interim Dean: Dr. Micheal W. Salisbury
Office: Carr Education-Fine Arts Building, Room 146
Telephone: 325-942-2162
E-Mail: CAH@angelo.edu

The College of Arts and Humanities offers a range of degree programs and courses in fine arts and liberal arts. The distinctive, learning-centered environment in the college places students in a community of scholars, where teaching, research, and creative endeavor combine to create a rich educational experience. In this spirit, although the college faculty demonstrate significant achievement in the areas of scholarship, creative endeavor, community engagement, and professional service, teaching is their highest calling.

The courses and programs in the college provide students with the knowledge, skills, and habits of mind to become responsible and productive citizens and leaders. They also provide a solid basis from which students may enter professional fields such as law and medicine.

Departments and Programs

Students in the College of Arts and Humanities may pursue studies in the following departments.

Department of Communication and Mass Media

Programs of Study in Communication

B.A.	Communication with Specialization Areas
	Public Relations/Social Media
	Digital Media
B.A.	Communication with Secondary teacher cert.
M.A.	Communication

Programs of Study in Mass Media

B.A.	Mass Media with Specialization Area
	Multimedia Journalism
B.A.	Mass Media with Secondary teacher certification

Natalie Zan Ryan Department of English and Modern Languages

Programs of Study in English

B.A.	English with Specialization Areas
	Creative Writing
	Technical and Business Writing
B.A.	English with Secondary teacher certification
B.A./M.A.	Integrated English
M.A.	English

Programs of Study in Spanish

B.A.	Spanish
B.A.	Spanish with All-level teacher certification

Dr. Arnoldo De León Department of History

Programs of Study in History

B.A.	History
B.A.	History with Secondary teacher certification
B.A.	History with Secondary Social Studies Composite teacher certification

Department of Political Science and Philosophy

Program of Study in Political Science

B.A.	Political Science

Program of Study in Philosophy

B.A.	Philosophy

Department of Security Studies and Criminal Justice

Programs of Study in Security Studies

- B.B.S. Border Security
- B.I.A. Intelligence and Analysis
- B.S.S. Border and Homeland Security
- B.S.S. Intelligence and Analysis
- M.S. Global Security Studies with Specialization Areas
  - National Security
  - Regional Security
- M.S. Homeland Security
- M.S.S. Intelligence and Analysis

Programs of Study in Criminal Justice

- B.A. Criminal Justice
- B.S. Criminal Justice
- M.S. Criminal Justice

Department of Visual and Performing Arts

Programs of Study in Art

- B.F.A. Studio Art with Specialization Areas
  - Art Generalist
  - Ceramics
  - Graphic Design
  - Painting/Drawing
  - Printmaking
  - Sculpture

Programs of Study in Music

- B.A. Music
- B.M. Music with Specialization Areas
  - Applied Performance - Instrumental
  - Applied Performance - Voice
  - Teacher Certification - Instrumental/Piano
  - Teacher Certification - Voice

Programs of Study in Theatre

- B.A. Theatre with Specialization Areas
  - Design and Technology
  - Generalist
  - Performance
- B.A. Theatre with All-level teacher certification

Additional programs

Program of Study in Applied Arts and Sciences

- B.A.A.S. Applied Arts and Sciences with Specialization Areas
  - Adult Education
  - Computer Science
  - Criminal Justice
  - Homeland Security

Program of Study in Interdisciplinary Studies

- B.I.S. Interdisciplinary Studies

College of Arts and Humanities:
Department of Communication and Mass Media

Department Chair: Leslie Rodriguez

Communication Faculty: Bailey, Brojakowski, Carlock, Lee, Leos, Lukacovic, Plachno, Rodriguez, Scott.
Communication Distinguished Professor Emeritus: Eli.

Mass Media Faculty: Gamreklidze.

Contact Information: Library Building, Third Floor, Room 306R
Telephone: 325-942-2031, Fax: 325-942-2551
http://www.angelo.edu/dept/communication-mass-media/index.php

Bachelor of Arts (B.A.)
Communication

(120 semester hours)

Academic Major	Hours
Communication 1335, 2330	3
Communication 1337, 2303, 2335, 2341	9
Communication 3355, 4311, 4351, 4371	12
Communication 4301	3
Communication (specialization area or advanced COMM)	9-12

Major Support Courses

Communication 1315	3
General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced) 18

Electives

Electives (3-6 hours must be advanced) 5-8

B.A. Communication, No Concentration (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	Life and Physical Sciences	3
COMM 1335, 2330	3	COMM 1315	3
Creative Arts	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	Humanities	3
Life and Physical Sciences	3	Modern Language 1302	3
POLS 2305	3	COMM 1337, 2303, 2335, 2341	3
COMM 1337, 2303, 2335, 2341	3	POLS 2306	3
Modern Language 1301	3	Elective (advanced)	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
Modern Language 2311	3	Modern Language 2312	3
COMM 1337, 2303, 2335, 2341	3	COMM 3355, 4311, 4351, 4371	3
COMM 3355, 4311, 4351, 4371	3	COMM 3355, 4311, 4351, 4371	3
Communication (advanced)	3	Minor	3
Minor	3	Minor	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Communication (advanced)	3	Core 090	3
Communication (advanced)	3	COMM 4301	3
Minor	3	Minor (advanced)	3
COMM 3355, 4311, 4351, 4371	3	Minor (advanced)	3
Elective (advanced)	3	Elective	2
TOTAL	15	TOTAL	14

Specialization Areas

Communication specialization areas and certificates are designed to provide students with the opportunity to focus their studies. Communication students may select to complete a certificate or specialization, or may select no specialization in order to study a variety of communication areas within their degree program.

Public Relations/Social Media

Communication 3336, 3337, 3342, 4335, 4337 12
Academic Major course requirements for this specialization
Communication 1337, 2303, 2330 9
Communication 2335, 2341 3

Digital Media

Communication 3360, 3361, 3363, 3366, 4355, 4365..... 12
Academic Major course requirements for this specialization
Communication 1337, 2303, 2330 9
Communication 2335, 2341 3

B.A. Communication, Public Relations/Social Media Specialization (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	Life and Physical Sciences	3
COMM 1337, 2303, 2330	3	COMM 1337, 2303, 2330	3
Creative Arts	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	Humanities	3
Life and Physical Sciences	3	Modern Language 1302	3
POLS 2305	3	COMM 1315	3
COMM 1337, 2303, 2330	3	POLS 2306	3
Modern Language 1301	3	Elective (advanced)	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
Modern Language 2311	3	Modern Language 2312	3
COMM 2335, 2341	3	COMM 3355, 4311, 4351, 4371	3
COMM 3355, 4311, 4351, 4371	3	COMM 3355, 4311, 4351, 4371	3
COMM (Specialization)	3	Minor	3
Minor	3	Minor	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
COMM 4335	3	Core 090	2
COMM (Specialization)	3	COMM 4301	3
Minor	3	COMM (Specialization)	3
COMM 3355, 4311, 4351, 4371	3	Minor (advanced)	3
Elective	3	Minor (advanced)	3
TOTAL	15	TOTAL	14

B.A. Communication, Digital Media Specialization (120 hours) *Sample Four-Year Curriculum*

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	Life and Physical Sciences	3
COMM 1337, 2303, 2330	3	COMM 2335, 2341	3
Creative Arts	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	Humanities	3
Life and Physical Sciences	3	Modern Language 1302	3
POLS 2305	3	COMM 1315	3
COMM 1337, 2303, 2330	3	POLS 2306	3
Modern Language 1301	3	COMM (Specialization)	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
Modern Language 2311	3	Modern Language 2312	3
COMM 1337, 2303, 2330	3	COMM 3355, 4311, 4351, 4371	3
COMM 3355, 4311, 4351, 4371	3	COMM 3355, 4311, 4351, 4371	3
COMM (Specialization)	3	Minor	3
Minor	3	Minor	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
COMM (Specialization)	3	Core 090	2
COMM (Specialization)	3	COMM 4301	3
Minor (advanced)	3	Minor	3
COMM 3355, 4311, 4351, 4371	3	Minor (advanced)	3
Elective (advanced)	3	Elective (advanced)	3
TOTAL	15	TOTAL	14

Bachelor of Arts (B.A.) Communication Major with Secondary Teacher Certification *

(120 semester hours)

Academic Major — **Hours**

Communication 1315, 1335, 2335, 2341 12
Communication 3311, 3321, 3351, 3356 6
Communication 3355, 4301, 4311, 4351, 4371 15

Major Support Courses

General Studies 1181 1
Humanities:
Cultural Competence 2323,
English 2321, 2322, 2323, 2326, 2329, 2331, 2341,
History 2311, 2312, 2322,
Honors 2305,
Philosophy 1301, 2305, 2306 3
Modern Language 1301, 1302, 2311, 2312
in a single modern language 12

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323* 9
Educational Psychology 3303, 3314 6
Reading 4320* 3

Education

Education 4973* 9

Electives

Electives 5

Teacher Certification: The student who chooses communication as a teaching field must complete: Communication 1315, 1335, 2335, 2341, 3311, 3321, 3351, 4301, 4311, and 6 advanced semester hours.

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

Undergraduate Certificate Available in Communication

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any course work for certificates must be taken in residence.

Certificate - Agricultural Communication (15 SCH required)

COMM 1335 Introduction to Radio/Television/Film 3
MM 1311 Writing for Mass Media 3
Select 6 SCH from the following:
AGSC 2300 Introduction to Agriculture Science 3
ASCI 1319 Principles of Animal Science 3
FSCI 1329 Food Science 3
RWM 2321 Forage Production and Utilization 3
Select 3 SCH from the following:
COMM 2330 Introduction to Public Relations 3
COMM 3321 Principles of Persuasion 3
COMM 3335 Public Relations Principles 3
COMM 3342 Advertising Principles 3

B.A. Communication, Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	COMM 1315	3
HIST 1301	3	ENGL 1302 or 2311	3
COMM 1335	3	HIST 1302	3
Creative Arts	3	Life and Physical Sciences	3
Mathematics	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	Core 090	2
Modern Language 1301	3	Modern Language 1302	3
POLS 2305	3	COMM 2341	3
COMM 2335	3	Humanities	3
Life and Physical Sciences	3	POLS 2306	3
TOTAL	15	Elective	3
		TOTAL	17

Third Year

Fall		Spring	
COMM 3355	3	COMM 4351	3
COMM 4311	3	COMM 4371	3
Communication (advanced)	3	ED 4322	3
ED 4321	3	EPSY 3303	3
Modern Language 2311	3	Modern Language 2312	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
COMM 4301	3	ED 4323	3
Communication (advanced)	3	ED 4973	9
EPSY 3314	3	TOTAL	12
RDG 4320	3		
Elective	3		
TOTAL	15		

Bachelor of Arts (B.A.)
Mass Media

(120 semester hours)

Academic Major	Hours
Mass Media 1307 or 1337, 1311	6
Mass Media 2300, 2311, 2345	9
Mass Media 3370, 4301	6
Mass Media (specialization area or advanced MM courses)	12
Mass Media (advanced)	3

Major Support Courses

General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced)	18

Electives

Electives (9 hours must be advanced)	9

Minor in Journalism

Students may obtain an academic minor in Journalism by taking the following courses: Mass Media 1311, 2300, 2311, 3313, 3314, and 3363.

B.A. Mass Media (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
MM 1311	3	Life and Physical Sciences	3
MM 2300	3	MM 1307 or 1337	3
Creative Arts	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	MM 2311	3
Modern Language 1301	3	Humanities	3
POLS 2305	3	POLS 2306	3
MM 2345	3	Modern Language 1302	3
Life and Physical Sciences	3	COMM 1315	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
MM (Specialization)	3	MM 3370	3
Mathematics	3	MM (Specialization)	3
Modern Language 2311	3	MM (Specialization)	3
Minor	3	Minor (advanced)	3
Minor	3	Modern Language 2312	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
MM (Specialization)	3	Core 090	2
MM (advanced)	3	MM 4301	3
Minor (advanced)	3	Minor	3
Elective (advanced)	3	Minor (advanced)	3
Elective (advanced)	3	Elective (advanced)	3
TOTAL	15	TOTAL	14

Specialization Area

A Mass Media specialization is designed to provide students with the opportunity to focus their studies in a particular area of journalism. However, this does not constitute separate academic majors or degree programs. Students who do not wish to select a specialization should take twelve semester credit hours of advanced Mass Media courses under the direction of their academic advisor.

Multimedia Journalism

(12 SCH required)

Choose 4 of the following courses.

Mass Media 3314	3
Mass Media 3320	3
Mass Media 3360	3
Mass Media 3361	3
Mass Media 3363	3
Mass Media 4320	3
Mass Media 4364	3
Mass Media 4365	3

This specialization area requires Mass Media 1311 and 1337.

Bachelor of Arts (B.A.) Mass Media Major with Secondary Teacher Certification *

(120 semester hours)

Academic Major	Hours
Mass Media 1307, 1311, 1337, 2300, 2345	15
Mass Media 3313, 3314, 3370, 4301, 4355, 4379	18

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4973*	9

Electives

Elective	2

B.A. Mass Media, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	Life and Physical Sciences	3
MM 1307	3	MM 1337	3
MM 2300	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	Humanities	3
Life and Physical Sciences	3	Modern Language 1302	3
POLS 2305	3	POLS 2306	3
MM 1311	3	MM 2345	3
Modern Language 1301	3	COMM 1315	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
MM 3314	3	Core 090	3
MM 3370	3	MM 3313	3
ED 4321	3	MM 4355	3
Creative Arts	3	ED 4322	3
Modern Language 2311	3	Modern Language 2312	3
TOTAL	15	Elective	2
		TOTAL	17

Fourth Year

Fall		Spring	
MM 4301	3	ED 4323	3
MM 4379	3	ED 4973	9
EPSY 3303	3	TOTAL	12
EPSY 3314	3		
RDG 4320	3		
TOTAL	15		

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 138 or visit the College of Education website.

College of Arts and Humanities:
Natalie Zan Ryan Department of English and Modern Languages

Department Chair: Mark L. Hama

English Faculty: Arreola, Ashworth-King, Davis, Dushane, Garland, K. Garrison, K.G. Garrison, Gonzalez, Hama, Huffman, Jackson, Jones, Kennedy, Kornasky, Musgrove, Puckitt, Scott, St. Germaine, Wegner.
English Distinguished Professor Emerita: Allen, Hartje.
Distinguished Professor Emeritus: Dalrymple.
English Professor Emerita: Duarte.
English Professor Emeritus: Reeves.

Modern Languages Faculty: Faught, Mendoza, Muelsch, Onofre-Madrid.
Modern Languages Distinguished Professor Emeritus: Tetzlaff.

Contact Information: Academic Building, Room 010
Telephone: 325-942-2273, Fax: 325-942-2208
http://www.angelo.edu/dept/english_modern_languages/

Bachelor of Arts (B.A.)
English

(120 semester hours)

The English major requires a total of 42 semester hours, of which 30 must be advanced. Students must select from categories of American literature, British literature, Rhetoric, Writing Instruction, and English Electives. Students will conclude their B.A. with a Senior Seminar which will bring the elements of the discipline together and prepare students for the workforce.

Academic Major *	Hours
English 1301, 1302 or 2311	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
English 3317, 3318, 3319	3
English 3301, 3309, 3311, 3312, 3313, 3315	6
English 3330	3
English 3351, 3353, 3355, 3356	3
English 4385	3
English elective (12 hours must be advanced)	15
Major Support Courses	
General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Minor	
Minor (6 hours must be advanced)	18
Electives	
Electives	8-14

*Students may choose a specialization area in Creative Writing or Technical and Business Writing.

B.A. English (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
GS 1181	1	Mathematics	3
Modern Language 1301	3	Modern Language 1302	3
Social and Behavioral Sciences	3	Life and Physical Sciences	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Sophomore Lit (from list)	3	ENGL 3330	3
POLS 2305	3	Modern Language 2312	3
COMM 1315	3	ENGL 3317, 3318, 3319	3
Modern Language 2311	3	POLS 2306	3
Life and Physical Sciences	3	Minor	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ENGL 3301, 3309, 3311, 3312, 3313, 3315	3	ENGL 3301, 3309, 3311, 3312, 3313, 3315	3
ENGL 3351, 3353, 3355, 3356	3	Creative Arts	3
Minor	3	Minor	3
English elective	3	English elective (advanced)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
English 4385	3	Humanities	3
Core 090	3	Minor	3
Minor (advanced)	3	Minor (advanced)	3
English elective (advanced)	3	English elective (advanced)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Integrated Program

Bachelor of Arts (B.A.)
Master of Arts (M.A.)
Integrated English

(150 semester hours)

B.A. Requirements (120 SCH)

Academic Major	Hours
English 1301, 1302 or 2311	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
English 3317, 3318, 3319	3
English 3301, 3309, 3311, 3312, 3313, 3315	6
English 3330	3
English 3351, 3353, 3355, 3356	3
English 6391	3
English Electives (12 hours must be advanced and 3 hours at the graduate level))	15

Major Support Courses

General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced)	18

Electives

Electives	8-14

M.A. Requirements (30 SCH)

English 6301, 6306, 6307, 6308, 6339	6
English 6331, 6333, 6335, 6336, 6341	6
English 6345, 6346, 6361, 6363	3
English Electives	15

B.A. English, Creative Writing (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
GS 1181	1	Mathematics	3
Modern Language 1301	3	Modern Language 1302	3
Social and Behavioral Sciences	3	Life and Physical Sciences	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Sophomore Lit (from list)	3	ENGL 3330	3
POLS 2305	3	Modern Language 2312	3
COMM 1315	3	ENGL 3317, 3318, 3319	3
Modern Language 2311	3	POLS 2306	3
Life and Physical Sciences	3	Minor	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ENGL 3301, 3309, 3311, 3312, 3313, 3315	3	ENGL 3301, 3309, 3311, 3312, 3313, 3315	3
ENGL 3355, 3356	3	ENGL 4376, 4377	3
Core 090	3	Creative Arts	3
Minor	3	Minor	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ENGL 3355, 3356	3	Humanities	3
ENGL 4385	3	Minor	3
Minor (advanced)	3	Minor (advanced)	3
English elective (advanced)	3	English elective (advanced)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

B.A. English, Technical and Business Writing (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
GS 1181	1	Mathematics	3
Modern Language 1301	3	Modern Language 1302	3
Social and Behavioral Sciences	3	Life and Physical Sciences	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Sophomore Lit (from list)	3	ENGL 3330	3
POLS 2305	3	ENGL 3317, 3318, 3319	3
COMM 1315	3	POLS 2306	3
Modern Language 2311	3	Modern Language 2312	3
Life and Physical Sciences	3	Minor	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ENGL 3301, 3309, 3311, 3312, 3313, 3315	3	ENGL 3301, 3309, 3311, 3312, 3313, 3315	3
ENGL 3351	3	ENGL 3352, 3353, 3354, 4360, 4365, 4367, 4373	3
Core 090	3	Creative Arts	3
Minor	3	Minor	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ENGL 3352, 3353, 3354, 4360, 4365, 4367, 4373	3	ENGL 3352, 3353, 3354, 4360, 4365, 4367, 4373	3
ENGL 4385	3	Humanities	3
Minor (advanced)	3	Minor	3
English elective (advanced)	3	Minor (advanced)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Specialization Areas

Creative Writing

Students majoring in English with a specialization in creative writing must complete all the requirements of the English B.A. (including advanced hour requirements) plus the requirements below:

English 3355, 3356	6
English 4376, 4377	3

Technical and Business Writing

Students majoring in English with a specialization in technical and business writing must complete all the requirements of the English B.A. (including advanced hour requirements) plus the requirements below:

English 3351	3
English 3352, 3353, 3354, 4360, 4365, 4367, 4373	9

Bachelor of Arts (B.A.)
English Major with Secondary Teacher Cert. *

(120 semester hours **)

The English major requires a total of 42 semester hours, of which 30 must be advanced. Students pursuing secondary teacher certification must select from categories of American literature, British literature, Rhetoric, Writing Instruction, Pedagogy, and English Electives.

Academic Major	Hours
English 1301, 1302 or 2311	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
English 3317, 3318, 3319	3
English 3301, 3309, 3311, 3312, 3313, 3315	6
English 3330	3
English 3351, 3353, 3355, 3356	3
English 4321, 4322	6
English 4385	3
English elective (6 hours must be advanced)	9

Major Support Courses

Communication 1315	3
General Studies 1181	1
History 1301, 1302	6
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

**Degree and certification requirements will sometimes exceed the 120 semester-credit-hour minimum for a baccalaureate degree.

B.A. English, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
GS 1181	1	Mathematics	3
Modern Language 1301	3	Modern Language 1302	3
Social and Behavioral Sciences	3	Life and Physical Sciences	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Sophomore Lit (from list)	3	ENGL 3330	3
POLS 2305	3	Modern Language 2312	3
COMM 1315	3	ENGL 3317, 3318, 3319	3
Modern Language 2311	3	POLS 2306	3
Life and Physical Sciences	3	EPSY 3303	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ENGL 3301, 3309, 3311, 3312, 3313, 3315	3	ENGL 3301, 3309, 3311, 3312, 3313, 3315	3
ENGL 3351, 3353, 3355, 3356	3	ENGL 4321	3
EPSY 3314	3	RDG 4320	3
English elective (advanced)	3	ED 4321	3
Creative Arts	3	English elective (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ENGL 4322	3	ED 4323	3
ENGL 4385	3	ED 4973	9
ED 4322	3	TOTAL	12
English elective	3		
Humanities	3		
Core 090	3		
TOTAL	18		

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4973*	9

Electives

Electives	5-11

Teacher Certification Grades 7-12 for Non-majors: A student who is not an English major but chooses English Language Arts and Reading for a certification area should complete 30 SCH from the following English courses: 3 hours of a sophomore-level course from 2321, 2322, 2323, 2326, 2331, or 2341, 6 hours of British literature from 3301, 3309, 3311, 3312, 3313, or 3315, 3 hours from 3317, 3318, 3319, 3 hours of 3330, and 6 hours of 4321 and 4322, plus 9 hours of upper-level electives.

See the Teacher Certification section of this Catalog page 158 for additional requirements.

TExES Eligibility: To be eligible for approval to take the Texas Examination of Educator Standards (TExES) in English Language Arts and Reading, Grades 7-12, students must satisfy the applicable State and University minimum requirements as well as the following departmental requirements. Students must have completed English 4321 and 4322 with a grade of "C" or better and must receive departmental approval.

Minors

Minor in English with a specialization in Creative Writing: Non-English majors who choose to minor in English may specialize in creative writing by selecting the following courses: English 1301, 1302, 2341, one additional sophomore literature, 3355 or 3356, and 4376 or 4377.

Minor in English with a specialization in Technical Writing: Non-English majors may specialize in technical writing by completing 18 hours of English, including English 3351 and two additional upper-level technical and business writing courses among 3353, 3354, 4360, 4365, 4367, and 4373.

Graduation Requirement for the English Major

Candidates for the Bachelor of Arts in English must complete a portfolio to be eligible for graduation. Students should submit this portfolio after completing all major requirements or in the semester immediately prior to graduation. The portfolio grade will not affect GPA.

Undergraduate Certificates

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any course work for certificates must be taken in residence.

Certificate - Creative Writing: Fiction Concentration
This certificate is designed for students seeking a short sequence of study in fiction writing.

(9 SCH required)

ENGL 2341 Forms of Literature 3
ENGL 3355 Fiction and Fiction Writing 3
ENGL 4376 Fiction Writing Workshop 3

Certificate - Creative Writing: Poetry Concentration
This certificate is designed for students seeking a short sequence of study in poetry writing.

(9 SCH required)

ENGL 2341 Forms of Literature 3
ENGL 3356 Poetry and Poetry Writing 3
ENGL 4377 Poetry Writing Workshop 3

Certificate - Technical Writing
This certificate is designed for students and professionals who wish a sequence of courses leading to a certificate or for undergraduate majors (including English majors) seeking to focus their upper-division electives on a certificate program in technical writing.

(9 SCH required)

ENGL 3351 Advanced Technical Writing 3
ENGL 3353 Web Publishing 3
ENGL 4360 Professional Editing 3

Developmental Program

Texas Success Initiative (TSI) Requirements. A student who fails to meet the minimum passing standard on the reading and/or writing section of the TSIA must complete an appropriate developmental option determined by the Department of English and Modern Languages. TSI requirements may be satisfied by one of the options specified under Developmental Education on page 161.

Developmental Courses

Course-based Option. Specially designated sections of English 1301 ("T-sections,") are designed to provide additional support for students who are not TSI complete. Students who are required to participate in developmental activities must enroll in these sections, which are identified by section numbers T10, T20, etc.

English 1301 "T-sections" meet for six hours weekly, although they only count three hours toward a student's bill, course load, and GPA. A passing grade in an English 1301 "T-section" will both complete the student's TSI requirements in reading and writing and also earn the student credit for English 1301.

130C Fundamentals of English (3-0). An intense study of the fundamentals of reading and writing that emphasizes concepts basic to both verbal skills. Students receive abundant practice in composition as well as in comprehension and analysis of selected readings.

College-Level Courses

The freshman college-level English program is designed to enable students to achieve proficiency in composition. Proficiency at the college level may be demonstrated by satisfactorily completing English 1301 and 1302 or by achieving credit through examination and passing the writing and reading sections of a State-approved TSI Assessment test.

Modern Languages

French, German, Spanish, Russian

A student who is initiating the study of a modern language at the University will normally begin with French, German, Russian, or Spanish 1301. Students with previous language experience in any of these languages may wish to attempt to earn credit by examination by taking a national test such as the CLEP.

Credit for French, German, Russian, or Spanish will be allowed if the student has not previously earned semester credit hours for the course in the same language. Should credit by examination be awarded for any one of these courses, the student would then want to continue study in the next appropriate course.

Completion of 1301, 1302, 2311, and 2312 is required, unless proficiency is demonstrated by examination or otherwise, before registering for advanced level courses in any of the foreign languages.

Graduation Requirement for Spanish Majors

(With or Without Teacher Certification)

Candidates for the Bachelor of Arts in Spanish (with or without teacher certification) are required to complete all sections of the major field test, written and oral, in order to be eligible for graduation. Students may take this examination during the semester immediately prior to graduation, or after having completed all foreign language requirements for a major.

The oral exam will be a proficiency exam that does not test knowledge of facts, but rather the ability to communicate in the target language. The written examination will consist of a multiple choice test on language, literature and culture, and a composition in the target language.

Students interested in studying English as a Second Language (ESL) should consult with the Chair of the Department of English and Modern Languages.

Bachelor of Arts (B.A.)

Spanish

(120 semester hours)

Academic Major	Hours
Spanish 1301, 1302, 2311, 2312	12
Spanish 3301, 3302, 3310, 3314	12
Spanish 4320, 4324	6
Spanish 4332, 4333	6
Major Support Courses	
General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Minor	
Minor (6 hours must be advanced)	18
Electives	
Electives (6 SCH electives must be advanced to meet the 36 advanced hour requirement.)	20

B.A. Spanish (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
Core 090	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Social and Behaviorial Sciences	3
GS 1181	1	SPAN 1302	3
SPAN 1301	3	Elective	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
SPAN 2311	3	SPAN 2312	3
Humanities	3	COMM 1315	3
Life and Physical Sciences	3	Life and Physical Sciences	3
Minor	3	Creative Arts	3
Mathematics	3	Language, Philosophy, and Culture	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
SPAN 3301	3	SPAN 3302	3
SPAN 3314	3	SPAN 3310	3
POLS 2305	3	POLS 2306	3
Minor	3	Minor	3
Elective	3	Elective (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
SPAN 4332	3	SPAN 4333	3
SPAN 4324	3	SPAN 4320	3
Minor	3	Minor (advanced)	3
Elective (advanced)	3	Minor (advanced)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Bachelor of Arts (B.A.)
Spanish Major with All-Level Teacher Cert. *

(120 semester hours)

Academic Major	Hours
Spanish 2311, 2312	6
Spanish 3301, 3302, 3310, 3314	12
Spanish 4320, 4324, 4332, 4333	12
Spanish 4326	3

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Political Science 2305, 2306	6
Spanish 1301, 1302	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4974*	9

Electives

Electives	8

Students seeking teacher certification will work closely with faculty in their preparation for the LOTE (Languages other than English) exam in Spanish.

B.A. Spanish, All-Level Teacher Certification (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
Core 090	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Social and Behavioral Sciences	3
GS 1181	1	SPAN 1302	3
SPAN 1301	3	Creative Arts	3
COMM 1315	3	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
SPAN 2311	3	SPAN 2312	3
Humanities	3	Language, Philosophy, and Culture	3
Mathematics	3	EPSY 3303	3
Life and Physical Sciences	3	Life and Physical Sciences	3
POLS 2305	3	POLS 2306	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
SPAN 3301	3	SPAN 3302	3
SPAN 3314	3	SPAN 3310	3
SPAN 4324	3	SPAN 4333	3
EPSY 3314	3	RDG 4320	3
Elective	3	ED 4321	3
Elective	2	TOTAL	15
TOTAL	17		

Fourth Year

Fall		Spring	
SPAN 4320	3	ED 4323	3
SPAN 4332	3	ED 4974	9
SPAN 4326	3	TOTAL	12
ED 4322	3		
Elective	3		
TOTAL	15		

*Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit: the College of Education website.

College of Arts and Humanities:
Dr. Arnoldo De León Department of History

Department Chair: Jason E. Pierce

Faculty: Archer, Dickmeyer, Eoff, Graham, Gruman, McMillan, Pierce, Powers, Smith.
President Emeritus: Hindman.
Distinguished Professor Emeritus: De León, Endress, Watkins.

Contact Information: Academic Building, Room 210
Telephone: 325-942-2324
http://www.angelo.edu/dept/history/

Bachelor of Arts (B.A.)
History
(120 semester hours)

Academic Major	Hours
History 1301, 1302	6
History 2311, 2312, 2321, 2322	6
History 2372	3
United States History (advanced)	12
Non-United States History (advanced)	12

Major Support Courses

English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Geography (in addition to any social science selection) advanced	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced)	18

Electives

Electives (3 elective hours must be advanced to meet 36 advanced hour requirement.)	14

B.A. History (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Modern Language 1301	3	COMM 1315	3
Creative Arts	3	Modern Language 1302	3
Mathematics	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
HIST 2311, 2312, 2321, 2322	3	HIST 2311, 2312, 2321, 2322	3
HIST 2372	3	Sophomore Lit (from list)	3
Life and Physical Sciences	3	POLS 2306	3
POLS 2305	3	Modern Language 2312	3
Modern Language 2311	3	Social and Behavioral Sciences	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
History (advanced) *	3	History (advanced) *	3
History (advanced) *	3	History (advanced) *	3
Geography (advanced)	3	Minor	3
Minor	3	Minor	3
Minor	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
History (advanced) *	3	History (advanced) *	3
History (advanced) *	3	Minor (advanced)	3
History (advanced) *	3	Elective (advanced)	3
Minor (advanced)	3	Elective	3
Elective	3	Core 090	2
TOTAL	15	TOTAL	14

* Student must have 12 semester credit hours advanced U.S. History and 12 semester credit hours advanced non-U.S. History.

Bachelor of Arts (B.A.)
History Major with Secondary Teacher Cert. *

(120 semester hours)

Academic Major	Hours
History 1301, 1302	6
History 2311, 2312, 2321, 2322	6
History 2372	3
History 3301	3
History 4370	3
Advanced U.S. History (excluding 3301)	9
Advanced non-United States History	9
Geography Elective (advanced)	3

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

ED 4973*	9

Electives

Electives	5

Teacher Certification. A student who chooses to be certified in history must complete the following courses: History 1301, 1302, 2311, 2312, 3301, 4370, 9 additional hours of advanced U.S. History (excluding 3301), 9 additional hours of advanced non-U.S. History, and 3 hours of Geography 3302 or 3303.

B.A. History, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Modern Language 1301	3	COMM 1315	3
Creative Arts	3	Modern Language 1302	3
Mathematics	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
HIST 2311, 2312, 2321, 2322	3	HIST 2311, 2312, 2321, 2322	3
HIST 2372	3	Sophomore Lit (from list)	3
Life and Physical Sciences	3	POLS 2306	3
POLS 2305	3	Modern Language 2312	3
Modern Language 2311	3	Geography Elective (advanced)	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
HIST 3301	3	Social and Behavioral Sciences	3
History (advanced) *	3	History (advanced) *	3
History (advanced) *	3	History (advanced) *	3
EPSY 3303	3	EPSY 3314	3
ED 4321	3	RDG 4320	3
TOTAL	15	Core 090	2
		TOTAL	17

Fourth Year

Fall		Spring	
History 4370	3	ED 4323	3
History (advanced) *	3	ED 4973	9
History (advanced) *	3	TOTAL	12
ED 4322	3		
Elective	3		
TOTAL	15		

* Student must have 9 semester credit hours advanced U.S. History and 9 semester credit hours advanced non-U.S. History.

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

Social Studies as a Composite Teaching Field. A student who chooses Social Studies as a composite secondary teaching field must complete the following: Economics 2301, 2302, 7 semester hours of Geography, Political Science 2305, 2306, and 12 advanced semester hours of Political Science, History 1301, 1302, 2311, 2312, 3301, 4370, 3 hours of advanced History, 6 semester hours of advanced U.S. History (excluding 3301), and 6 advanced semester hours of non-U.S. History.

Bachelor of Arts (B.A.)
History Major with Composite Social Studies Secondary Teacher Certification *

(120 semester hours)

Academic Major	Hours
History 1301, 1302	6
History 2311, 2312, 2321, 2322	6
History 2372	3
History 3301	3
History 4370	3
Advanced U.S. History (excluding 3301)	6
Advanced non-United States History	6
Geography Elective (advanced)	3
Political Science 2305, 2306	6
Political Science (advanced)	6
Major Support Courses	
Communication 1315	3
Economics 2301, 2302	6
English 1301, 1302 or 2311	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Geography 1301/1101	4
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Minor (Professional Education)	
Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3
Education	
Education 4973*	9
Electives	
Electives	1

Graduation Requirement for History Majors

Candidates for the Bachelor of Arts in History are required to complete a Major Field Test (MFT) in History in order to be eligible for graduation. Students may take this examination after completing all history requirements or in the semester immediately prior to graduation. The exam score will not affect the student's GPA, but it will be a part of the student's record.

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

B.A. History, Composite Social Studies, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL1302 or 2311	3
HIST 1301	3	HIST 1302	3
ECON 2301	3	COMM 1315	3
Creative Arts	3	ECON 2302	3
Mathematics	3	Life and Physical Sciences	3
GS 1181	1	Elective	1
TOTAL	16	TOTAL	16

Second Year

Fall		Spring	
HIST 2311, 2312, 2321, 2322	3	HIST 2311, 2312, 2321, 2322	3
HIST 2372	3	Sophomore Lit (from list)	3
GEOG 1301/1101	4	POLS 2306	3
POLS 2305	3	Modern Language 1302	3
Modern Language 1301	3	Geography Elective (advanced)	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
HIST 3301	3	U.S. History (advanced) *	3
Non-U.S. History (advanced) *	3	Non-U.S. History (advanced) *	3
EPSY 3303	3	ED 4321	3
RDG 4320	3	Political Science (advanced)	3
Modern Language 2311	3	Modern Language 2312	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
History 4370	3	ED 4323	3
U.S. History (advanced) *	3	ED 4973	9
EPSY 3314	3	TOTAL	12
ED 4322	3		
Political Science (advanced)	3		
TOTAL	15		

* Student must have 6 semester credit hours advanced U.S. History and 6 semester credit hours advanced non-U.S. History.

College of Arts and Humanities:
Department of Political Science and Philosophy

Department Chair: Anthony D. Bartl

Philosophy Faculty: Badiola, Glassford

Political Science Faculty: Bartl, Campos, Glassford, Gritter, Norton, Watts.
Political Science Distinguished Professor Emeritus: Henderson, Holland.

Contact Information: Rassman Building, Room 213
Telephone: 325-942-2262, Fax: 325-942-2307
http://www.angelo.edu/dept/political_science/

Angelo State University offers a major and minor in philosophy. Some of the courses may be used to fulfill the humanities requirement. Philosophy can also be used as an elective in any program.

Why is philosophy good for you? Philosophy is an activity - an effort to ask and attempt to answer all the great questions of life: Does God exist? What kind of person should I be? What makes anything right or wrong? What is the meaning of life? As one philosopher put it, "Philosophy is primarily concerned with what there is in the world, and with what we ought to do about it." Philosophical training will improve your ability to think clearly and to analyze and evaluate arguments. Philosophy fosters personal and intellectual growth.

Bachelor of Arts (B.A.)
Philosophy
(120 semester hours)

Academic Major	Hours
Philosophy 1301	3
Philosophy 2305, 2306	6
Philosophy 3310, 3311, 4395	9
Philosophy 3312, 3313, 4311, 4312, 4330, 4331, 4332, 4333, 4334, 4360, 4391	18

Major Support Courses	
General Studies 1181	1
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor	
Minor (6 hours must be advanced)	18

Electives	
Electives (3 elective hours must be advanced to meet the 36 advanced hour requirement.)	17

B.A. Philosophy (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	COMM 1315	3
Modern Language 1301	3	PHIL 1301	3
Creative Arts	3	Modern Language 1302	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
Life and Physical Sciences	3	PHIL 2305	3
Modern Language 2311	3	Life and Physical Sciences	3
PHIL 2306	3	Modern Language 2312	3
Elective	3	PHIL 3310	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
PHIL 3311	3	Philosophy (advanced)	3
Philosophy (advanced)	3	Philosophy (advanced)	3
Social and Behavioral Sciences	3	Elective	3
Minor	3	Minor	3
Minor	3	Minor	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Philosophy (advanced)	3	PHIL 4395	3
Philosophy (advanced)	3	Philosophy (advanced)	3
Elective (advanced)	3	Elective	2
Elective	3	Elective	3
Minor (advanced)	3	Minor (advanced)	3
TOTAL	15	TOTAL	14

A student may complete the six-semester-hour requirement in federal and state government for a baccalaureate degree by successfully completing Political Science 2305 and 2306.

Bachelor of Arts (B.A.) Political Science

(120 semester hours)*

Academic Major	Hours
Political Science 2304	3
Political Science 4361	3
American Politics:	
Political Science 3304, 3307, 3308	3
Political Theory:	
Political Science 4331, 4332	3
Comparative Politics and International Relations:	
Political Science 3341, 3351	3
Political Science (advanced)	21

Major Support Courses

General Studies 1181	1
Humanities:	
Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced) 18

Electives

Electives 11

Graduation Requirement for Political Science Majors

Candidates for the Bachelor of Arts in Political Science are required to complete a Major Field Test (MFT) in Political Science in order to be eligible for graduation. Students may take this examination after completing all government requirements or in the semester immediately prior to graduation. The exam score will not affect GPA, but will be part of the student's record.

B.A. Political Science (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Mathematics	3	POLS 2305	3
Modern Language 1301	3	Humanities	3
POLS 2304	3	Modern Language 1302	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2306	3	POLS 3304, 3307, 3308	3
Language, Philosophy, and Culture	3	COMM 1315	3
Life and Physical Sciences	3	Life and Physical Sciences	3
Modern Language 2311	3	Modern Language 2312	3
Creative Arts	3	Elective	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
Political Science (advanced)	3	Political Science (advanced)	3
Political Science (advanced)	3	Political Science (advanced)	3
Elective	3	Elective	2
Elective	3	Minor	3
Minor	3	Minor	3
TOTAL	15	TOTAL	14

Fourth Year

Fall		Spring	
POLS 4361	3	Core 090	3
Political Science (advanced)	3	Political Science (advanced)	3
Political Science (advanced)	3	Political Science (advanced)	3
Minor	3	Political Science (advanced)	3
Minor (advanced)	3	Minor (advanced)	3
TOTAL	15	TOTAL	15

Political Science Internship

Political Science internships are available to qualified students who are majoring in political science and have a minimum GPA of 2.00 with a preference for juniors and seniors. Information about specific internships will be sent by email to majors. During the semester of the internship, duties will be performed in an approved government or political agency, for which up to six semester hours of credit may be received. The student will intern under the supervision of a member of the Political Science faculty, and the work will involve a combination of practical work and research.

Pre-Law

A student preparing for law school should complete a baccalaureate degree. A major in political science provides excellent pre-law preparation though numerous other majors are acceptable to most law schools. A pre-law student wishing to major in political science should consult the Political Science and Philosophy Department's pre-law advisor, Dr. Tony Bartl, to be advised on the selection of a minor and electives.

* Students who are interested in public administration careers should use the electives in the political science degree program to take the following courses: Economics 2301, 2302, Psychology 2301, Sociology 1306, Accounting 2301 and 2302, Also refer to the Political Science Internship section which follows.

College of Arts and Humanities:
Department of Security Studies and Criminal Justice

Department Chair: William A. Taylor

Security Studies Faculty: Bassi, Bechtol, Dailey, Dittmann, Heineman, La Flamme, Martinez, Nalbandov, Pullin, Taylor.
Security Studies Distinguished Professor Emeritus: Jones.

Criminal Justice Faculty: Diaz, Hicks, Lee, Wu.
Criminal Justice Distinguished Professor Emeritus: Jones.

Contact Information: Vincent Building, Room 164
Telephone: 325-486-6682, Fax: 325-942-2544
E-mail: css@angelo.edu
http://www.angelo.edu/dept/security_studies_criminal_justice/css/

Bachelor of Security Studies (B.S.S.)
Border and Homeland Security

(120 semester hours)

Academic Major	Hours
Border Security 3301, 3340, 4330, 4351, 4354, 4389	18
Border Security (advanced)	18
Cultural Competence 3310, 3312	6

Major Support Courses

Cultural Competence 2323	3
General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced)	18

Electives

Electives	17

B.S.S. Border and Homeland Security (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
Core 090	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Life and Physical Sciences	3
Life and Physical Sciences	3	Creative Arts	3
Social and Behavioral Sciences	3	Mathematics	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
CUL 2323	3	BOR (advanced)	3
CUL 3310	3	BOR 3301	3
COMM 1315	3	BOR 3340	3
BOR (advanced)	3	CUL 3312	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
BOR (advanced)	3	BOR (advanced)	3
BOR (advanced)	3	BOR (advanced)	3
Minor	3	Minor	3
Minor	3	Minor	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
BOR 4330	3	BOR 4354	3
BOR 4351	3	BOR 4389	3
Elective	2	Elective	3
Minor (advanced)	3	Elective	3
Minor (advanced)	3	Elective	3
TOTAL	14	TOTAL	15

Bachelor of Border Security (B.B.S.)
Border Security

(120 semester hours)

The Bachelor in Border Security (B.B.S.) degree is meant to increase students' awareness and understanding of current issues in Border Security within the wider realm of Homeland Security. The courses will increase the students' critical thinking and analytic skills across the diverse fields of Criminal Justice, Criminology, Emergency Management, and associated legal issues.

Academic Major	Hours
Border Security 3301, 3320, 3340, 4330, 4351, 4354, 4389	21
Border Security (advanced)	9

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 48

AU-ABC Partnership

The B.B.S. degree has been approved by Air University to be included in the AU-ABC program. Degrees in the AU-ABC program allow students to transfer all 60 credit hours of their Associate of Applied Science Degree from CCAF into the course requirements. Since the B.B.S. requires 120 SCH and all 60 hours from the CCAF degree will be used, the student is only required to complete an additional 60 SCH to complete the B.B.S. degree.

The Office of Admissions, in conjunction with the Department of Security Studies and Criminal Justice, will make an exception to standard policy with regard to Community College of the Air Force (CCAF) credits for a CCAF degree-holder. All credits from CCAF associate's degrees will be accepted and applied toward your degree plan. However, should you choose to change your degree plan to a degree other than the B.B.S. degree, the transfer credits originally accepted and applied may be revoked.

Undergraduate Certificates Available in Border Security

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any course work for certificates must be taken in residence.

Certificate - Cybersecurity
(12 SCH required)

BOR 3307 Introduction to Cybersecurity 3
BOR 3309 Information Security and Protection 3
BOR 4301 Critical Communications Infrastructure 3
Select 3 SCH from the following:
BOR 4302 Space Imagery and Security 3
BOR 4303 Digital Footprints 3

Certificate - Emergency Management
(12 SCH required)

BOR 3322 Weapons of Mass Destruction 3
BOR 4301 Critical Communications Infrastructure 3
BOR 4330 Disaster Preparedness and Emergency Planning .. 3
BOR 4351 Critical Infrastructure Protection 3
(Course substitutes are not allowed in this certificate.)

Certificate - Terrorism and Counter-Terrorism Studies
(12 SCH required)

BOR 3320 History of Terrorism 3
BOR 3322 Weapons of Mass Destruction 3
BOR 4321 Trends in Terrorism and Counter-Terrorism 3
BOR 4330 Disaster Preparedness and Emergency Planning .. 3

Bachelor of Security Studies (B.S.S.) Intelligence and Analysis

(120 semester hours *)

Academic Major	Hours
Cultural Competence 3310, 3312	6
Intelligence and Analysis 3300, 3301, 3302, 3303, 3320, 4300, 4301, 4303	24
Intelligence and Analysis Elective Courses Choose any 12 hours of Intelligence and Analysis courses (advanced)	12

Major Support Courses

Cultural Competence 2323	3
General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced) 18

Electives

Electives 17

B.S.S. Intelligence and Analysis (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
Core 090	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Life and Physical Sciences	3
Life and Physical Sciences	3	Creative Arts	3
Social and Behavioral Sciences	3	Mathematics	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
CUL 2323	3	INA 3300	3
CUL 3310	3	INA 3301	3
INA Elective (advanced)	3	CUL 3312	3
COMM 1315	3	INA Elective (advanced)	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
INA 3302	3	INA 3310	3
INA 3303	3	INA 3320	3
Minor	3	Minor	3
Minor	3	Minor	3
Elective	3	INA Elective (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
INA Elective (advanced)	3	INA 4303	3
Minor (advanced)	3	INA Elective (advanced)	3
Minor (advanced)	3	Elective	3
Elective	3	Elective	3
Elective	2	Elective	3
TOTAL	14	TOTAL	15

* Undergraduate INA students may take BOR undergraduate courses as advanced electives with the Department Chair's permission.

Bachelor of Intelligence and Analysis (B.I.A.) Intelligence and Analysis

(120 semester hours *)

The Bachelor of Intelligence and Analysis (B.I.A.) degree focuses on the interrelationships among intelligence, policy making, and national security and develops students with the competencies critical to accomplishing the missions of the United States intelligence community and national security enterprises. This program has similar requirements to the B.S.S. in Intelligence and Analysis; however, this program is designed for active duty members of the United Sates Air Force.

Academic Major **Hours**

Intelligence and Analysis 3300, 3301, 3302, 3303, 3320, 4300, 4301, 4303 24

Intelligence and Analysis Elective Courses
Choose any nine hours of Intelligence and Analysis courses 6

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 48

AU-ABC Partnership

The B.I.A. degree has been approved by Air University to be included in the AU-ABC program. Degrees in the AU-ABC program allow students to transfer all 60 credit hours of their Associate of Applied Science Degree from CCAF into the course requirements. Since the B.I.A. requires 120 SCH and all 60 hours from the CCAF degree will be used, the student is only required to complete an additional 60 SCH to complete the B.I.A. degree.

The Office of Admissions, in conjunction with the Department of Security Studies and Criminal Justice, will make an exception to standard policy with regard to Community College of the Air Force (CCAF) credits for a CCAF degree-holder. All credits from CCAF associate's degrees will be accepted and applied toward your degree plan. However, should you choose to change your degree plan to a degree other than the B.I.A. degree, the transfer credits originally accepted and applied may be revoked.

Bachelor of Arts (B.A.)
Criminal Justice

(120 semester hours)

Academic Major	Hours
Criminal Justice 1301, 1306, 1310, 2313, 2328	15
Criminal Justice 3302, 3305, 4354	9
Criminal Justice (advanced)	12

Major Support Courses

Cultural Competence 2323	3
General Studies 1181	1
Humanities: English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced)	18

Electives

Electives (8 SCH must be advanced)	8

B.A. Criminal Justice (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Modern Language 1301	3	Modern Language 1302	3
Social and Behavioral Sciences	3	Creative Arts	3
Mathematics	3	CRIJ 1301	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
CUL 2323	3	Humanities	3
Modern Language 2311	3	Modern Language 2312	3
COMM 1315	3	CRIJ 1306	3
Life and Physical Science	3	Life and Physical Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
CRIJ 1310	3	CRIJ 3302	3
CRIJ 2313	3	CRIJ 3305	3
CRIJ 2328	3	Criminal Justice (advanced)	3
Minor	3	Minor	3
Minor	3	Minor (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Criminal Justice (advanced)	3	Core 090	3
Criminal Justice (advanced)	3	CRIJ 4354	3
Criminal Justice (advanced)	3	Elective (advanced)	3
Minor	3	Elective (advanced)	3
Minor (advanced)	3	Elective (advanced)	2
TOTAL	15	TOTAL	14

Bachelor of Science (B.S.) Criminal Justice

(120 semester hours)

Academic Major	Hours
Criminal Justice 1301, 1306, 1310, 2313, 2328	15
Criminal Justice 3302, 3305, 4354	9
Criminal Justice	3
Criminal Justice (advanced)	15

Major Support Courses

Biology, Geography, Geology, or Health Science Professions	
Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, 2323/2123, 2324/2124, Geography 1301/1101, Geology 1301/1101, 1303/1103, 1304/1104 Health Science Professions 2301/2101, 2302/2102	8
Chemistry, Physical Science, or Physics	
Chemistry 1305/1105, 1311/1111, Physical Science 1315/1115, 1317/1117, Physics 1303/1103, 1304/1104.	8
Cultural Competence 2323	3
General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced *) 18

Electives

Electives (6 hours must be advanced) 10

Undergraduate Certificates Available in Criminal Justice

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. All course work for certificates must be taken in residence.

Certificate - Cybercrime Criminology (9 SCH required)

CRIJ 3325 Cyber Space, Cyber Security, and Cyber Crime	3
CRIJ 3345 Cybercrime Laws and Procedures	3
CRIJ 4315 Cybercrime Investigation	3

Certificate - Global Crime Studies (9 SCH required)

CRIJ 3304 Transitional Crime	3
CRIJ 3306 International Drug Trafficking	3
CRIJ 3308 International Human Trafficking	3
CRIJ 4341 Comparative Study of Justice	3

B.S. Criminal Justice (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
BIOL, GEOG, GEOL, or HSP	4	BIOL, GEOG, GEOL, or HSP	4
Social and Behavioral Sciences	3	Creative Arts	3
GS 1181	1	CRIJ 1301	3
TOTAL	14	TOTAL	16

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
CUL 2323	3	CRIJ 1306	3
MATH	3	CRIJ 1310	3
COMM 1315	3	CRIJ 2313	3
Chemistry, Physical Science, or Physics	4	Chemistry, Physical Science, or Physics	4
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
CRIJ 2328	3	CRIJ 3305	3
CRIJ 3302	3	Criminal Justice (advanced)	3
Criminal Justice	3	Minor	3
Minor	3	Minor	3
Minor	3	Elective (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Criminal Justice (advanced)	3	CRIJ 4354	3
Criminal Justice (advanced)	3	Criminal Justice (advanced)	3
Criminal Justice (advanced)	3	Elective (advanced)	3
Minor (advanced)	3	Elective	3
Minor (advanced)	3	Elective	1
TOTAL	15	TOTAL	13

* If a student chooses a minor that does not allow at least 6 hours of advanced courses, this degree may exceed 120 semester credit hours.

College of Arts and Humanities:
Department of Visual and Performing Arts

Department Chair: Constance P, Kelley

Art Faculty: Bunker, Cuenco, Hall, Koncz, Sum, Surl, Vinklarek, Yarian.
Art Professor Emeritus: Prestiano.

Music Faculty: Alvis, Bonenfant, Covey, Emmons, Handshoe, Irish, Kelley, Keniston, Posada, Rocha, Shuey.
Director of Bands Emeritus: Brinson.

Theatre Faculty: Rhein.
Theatre Distinguished Professor Emeritus: Doll.
Theatre Professor Emeritus: Watts.

Contact Information: Carr Building, Room 138
Telephone: 325-942-2085, Fax: 325-942-2152
https://www.angelo.edu/departments/visual-performing-arts/contact.php

Bachelor of Fine Arts (B.F.A.)
Art
Studio Art
(120 semester hours)

Academic Major	Hours
Arts 1303, 1304, 1311, 1312, 1316, 1317, 2373	21
Arts 2316, 2326, 2333, 2346	12
Arts 3313, 3356, 4372	9
Arts (Specialization Area)	27
Major Support Courses	
General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Electives	
Electives	8

Entering students will be preliminarily classified as Art Generalists within the B.F.A. in Studio Art Program. Upon satisfactory completion of all Art foundation courses and receiving a passing grade on the Sophomore Exam and Portfolio Evaluation, students will be eligible to apply for concentrated study in one of the following areas: Ceramics, Graphic Design, Painting/Drawing, Printmaking or Sculpture.

Teacher Certification: Students wishing to pursue all level teacher certification should complete the B.F.A. with an Art Generalist specialization and contact the Educator Preparation Information Center for more information. Minimum course requirements for all level certification in art: ARTS 1302, ARTS 4381, ED 4315, ED 4321, ED 4322, ED 4974, EPSY 3303, RDG 4320. Completion of this course of study may require more than 120 hours.

B.F.A. Studio Art, Art Generalist (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ARTS 1311	3	ARTS 1312	3
ARTS 1303	3	ARTS 1304	3
ARTS 1316	3	ARTS 1317	3
GS 1181	1	Mathematics	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
ARTS 2326	3	ARTS 2333	3
ARTS 2373	3	ARTS 2346	3
Life and Physical Sciences	3	ARTS 3356	3
Social and Behavioral Sciences	3	History or Political Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ARTS 2316	3	ARTS 3312	3
ARTS 3313	3	ARTS 3332	3
ARTS 3342 or 4321	3	ARTS 3362	3
Life and Physical Sciences	3	History or Political Science	3
Elective	3	Humanities	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ARTS 3371 (Specialization)	3	Advanced Art History	3
ARTS 4341 (Specialization)	3	ARTS 4372 **	3
Advanced Art History(Specialization)	3	History or Political Science	3
History or Political Science	3	Advanced Graphic Design	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Portfolio Preparation should be taken the semester a student plans to graduate.

Specialization Areas

All Bachelor of Fine Arts students are required to select one of the following specialization areas:

Art Generalist

ARTS 3312, 3332, 3362	9
ARTS 3342 or 4321	3
ARTS 3371	3
ARTS 4341	3
Advanced Art History	6
Advanced Graphic Design	3

Ceramics

ARTS 3312	3
ARTS 4371, 4380	6
ARTS 3332 (6 SCH with repeat)	6
ARTS 3333 (9 SCH with repeat)	9
Advanced Art History	3

Graphic Design

ARTS 3303, 3310, 3350, 3371	12
ARTS 4310, 4313, 4314, 4325, 4370	15

Painting/Drawing

ARTS 3311, 3312	6
ARTS 3323, 3342	6
ARTS 4321	3
ARTS 4324	6
Advanced Art History	6

Printmaking

ARTS 3311, 3312	6
ARTS 3362 (9 SCH with repeat)	9
ARTS 4362 (6 SCH with repeat)	6
Advanced Art History	6

Sculpture

ARTS 3311, 3312	6
ARTS 4341 (9 SCH with repeat)	9
ARTS 4342 (6 SCH with repeat)	6
Advanced Art History	6

B.F.A. Studio Art, Ceramics (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ARTS 1311	3	ARTS 1312	3
ARTS 1303	3	ARTS 1304	3
ARTS 1316	3	ARTS 1317	3
GS 1181	1	Mathematics	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
ARTS 2346	3	ARTS 2316	3
ARTS 2372	3	ARTS 3332	3
Life and Physical Sciences	3	ARTS 3356	3
Social and Behavioral Sciences	3	History or Political Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ARTS 3313	3	ARTS 2326	3
ARTS 3332 (Specialization)	3	ARTS 3312	3
Advanced Art History	3	ARTS 3333 (Specialization)	3
Life and Physical Sciences	3	History or Political Science	3
Elective	3	Humanities	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ARTS 2333	3	ARTS 3333	3
ARTS 3333 (Specialization)	3	ARTS 4371	3
ARTS 4380 (Specialization)	3	ARTS 4372 *	3
History or Political Science	3	History or Political Science	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Portfolio Preparation should be taken the semester a student plans to graduate.

B.F.A. Studio Art, Graphic Design (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ARTS 1311	3	ARTS 1312	3
ARTS 1303	3	ARTS 1304	3
ARTS 1316	3	ARTS 1317	3
GS 1181	1	Mathematics	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	ARTS 2316	3
ARTS 3350 (Specialization)	3	ARTS 3356 (Specialization)	3
ARTS 2373	3	ARTS 3371 (Specialization)	3
History or Political Science	3	COMM 1315	3
Life and Physical Sciences	3	History or Political Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ARTS 2326	3	ARTS 2333	3
ARTS 3303	3	ARTS 3310 (Specialization)	3
ARTS 3313	3	ARTS 4314 (Specialization)	3
ARTS 4310 (Specialization)	3	Humanities	3
Life and Physical Sciences	3	Social and Behavioral Sciences	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ARTS 2346	3	ARTS 4325	3
ARTS 4314	3	ARTS 4372 (Specialization) *	3
ARTS 4370 (Specialization)	3	History or Political Science	3
History or Political Science	3	Elective	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Portfolio Preparation should be taken the semester a student plans to graduate.

B.F.A. Studio Art, Painting/Drawing (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ARTS 1311	3	ARTS 1312	3
ARTS 1303	3	ARTS 1304	3
ARTS 1316	3	ARTS 1317	3
GS 1181	1	Mathematics	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
ARTS 2316	3	ARTS 2373	3
ARTS 3342 (Specialization)	3	ARTS 3311 (Specialization)	3
Life and Physical Sciences	3	ARTS 4321 (Specialization)	3
Social and Behavioral Sciences	3	History or Political Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ARTS 3313	3	ARTS 2326	3
ARTS 3323 (Specialization)	3	ARTS 3312 (Specialization)	3
ARTS 3356	3	ARTS 4324 (Specialization)	3
Life and Physical Sciences	3	History or Political Science	3
Elective	3	Humanities	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ARTS 2333	3	ARTS 2346	3
ARTS 4324 (Specialization)	3	ARTS 4372 *	3
Advanced Art History(Specialization)	3	History or Political Science	3
History or Political Science	3	Advanced Art History(Specialization)	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Portfolio Preparation should be taken the semester a student plans to graduate.

B.F.A. Studio Art, Printmaking (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ARTS 1311	3	ARTS 1312	3
ARTS 1303	3	ARTS 1304	3
ARTS 1316	3	ARTS 1317	3
GS 1181	1	Mathematics	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
ARTS 2333	3	ARTS 2316	3
ARTS 2373	3	ARTS 3356	3
Life and Physical Sciences	3	ARTS 3362 (Specialization)	3
Social and Behavioral Sciences	3	History or Political Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ARTS 3311	3	ARTS 2326	3
ARTS 3313	3	ARTS 3312	3
ARTS 3362 (Specialization)	3	ARTS 3362 (Specialization)	3
Life and Physical Sciences	3	History or Political Science	3
Elective	3	Humanities	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ARTS 2346	3	Advanced Art History	3
ARTS 4362 (Specialization)	3	ARTS 4362	3
History or Political Science	3	ARTS 4372 (Specialization) *	3
Advanced Art History	3	History or Political Science	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Portfolio Preparation should be taken the semester a student plans to graduate.

B.F.A. Studio Art, Sculpture (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ARTS 1311	3	ARTS 1312	3
ARTS 1303	3	ARTS 1304	3
ARTS 1316	3	ARTS 1317	3
GS 1181	1	Mathematics	3
Elective	2	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
ARTS 2326	3	ARTS 2333	3
ARTS 2373	3	ARTS 3356	3
Language, Philosophy, and Culture	3	ARTS 4341 (Specialization)	3
Life and Physical Sciences	3	COMM 1315	3
Social and Behavioral Sciences	3	History or Political Science	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ARTS 3311	3	ARTS 2346	3
ARTS 3313	3	ARTS 3312	3
ARTS 4341 (Specialization)	3	ARTS 4341 (Specialization)	3
Life and Physical Sciences	3	History or Political Science	3
Elective	3	Humanities	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ARTS 2316	3	ARTS 4342 (Specialization)	3
ARTS 4342 (Specialization)	3	ARTS 4372 (Specialization) *	3
Advanced Art History(Specialization)	3	History or Political Science	3
History or Political Science	3	Advanced Art History	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

* Portfolio Preparation should be taken the semester a student plans to graduate.

Music

Entrance Audition

Students interested in pursuing a degree in music must declare a major instrument or voice at the time of audition to the program and prior to the beginning of the first semester of music study. Audition dates are published on the Department of Visual and Performing Arts website. Contact the department at 325-942-2085 to schedule an audition and for specific audition requirements.

Students are accepted into the program in two different ways: full acceptance or provisional acceptance. A student who receives full acceptance into the program has all rights and responsibilities of a music major at the time of matriculation. A student who receives provisional acceptance must successfully complete one semester of applied instruction as well as other courses deemed appropriate. Full acceptance of a provisional student will be determined by a faculty committee upon completion of the jury at the end of the provisional semester. A student may be in provisional status for one semester only.

MUSI 1000 Recital Attendance

All music majors must enroll in and successfully complete MUSI 1000 Recital Attendance during each semester of applied study required for the given degree plan.

Transfer Students

All transfer students must audition for entrance to the music program. Transfer students will be placed at the appropriate applied lesson level by the faculty.

Major Ensembles

Music majors enrolled in applied music must concurrently enroll in a major ensemble. Ensemble participation beyond that which is outlined for each semester in the respective degree plan is strongly encouraged. Any ensemble credits taken beyond the degree plan will be considered as electives. Piano majors who seek teaching certification must declare a vocal, wind, percussion, or string track and must complete the required number of lower division and upper division hours in major ensembles.

Major ensembles are defined below.

Wind, Brass, and Percussion students seeking the B.M. with a specialization in Teacher Certification–Instrumental/Piano, the B.A. in Music, or the Minor in Music-Vocal/Instrumental:

Marching Ram Band, Wind Ensemble, Symphonic Band, or Symphony Orchestra as determined by ensemble directors.

Wind, Brass, and Percussion students seeking the B.M. with a specialization in Applied Performance–Instrumental:

Wind Ensemble or Symphony Orchestra as determined by ensemble directors.

String students seeking the B.M. with a specialization in Teacher Certification–Instrumental/Piano, B.M. with a specialization in Applied Performance–Instrumental, the B.A. in Music, or the Minor in Music-Vocal/Instrumental:

Symphony Orchestra

Voice students seeking the B.M. with a specialization in Teacher Certification–Voice, B.M. with a specialization in Applied Performance–Voice, the B.A. in Music, or the Minor in Music-Vocal/Instrumental:

University Chorale or Chamber Singers as determined by ensemble directo.

Piano students seeking the B.M. with a specialization in Teacher Certification–Instrumental/Piano, the B.A. in Music, or the Minor in Music-Vocal/Instrumental:

University Chorale, Chamber Singers, Marching Ram Band, Wind Ensemble, Symphonic Band, or Symphony Orchestra depending on selected track.

Bachelor of Arts (B.A.)
Music

(120 semester hours)

The Bachelor of Arts degree in music (BA Music) is designed for students who want to study music within the context of a broad, liberal arts education. This degree program balances applied studies, ensemble participation, and coursework in music theory and music history. The BA in Music degree offers preparation for a variety of careers. Students must select a minor area (18 semester credit hours) outside of music.

Academic Major	Hours
MUSI 1000 (six semesters)	0
MUSI 1117, 1306, 1312, 2311	10
MUSI 3251, 3340, 3341	8
MUAP 1101, 1102 *	2
MUAP 2101, 2102 *	2
MUAP 3101, 3102 *	2
Major ensemble (lower division)	4
Major ensemble (upper division)	2
MUAP, MUEN, MUSI electives (advanced)	6

Major Support Courses

General Studies 1181 1

Humanities:
Cultural Competence 2323,
English 2321, 2322, 2323, 2326, 2329, 2331, 2341,
History 2311, 2312, 2322,
Honors 2305,
Philosophy 1301, 2305, 2306, ... 3

Modern Language 1301, 1302, 2311, 2312
in a single modern language 12

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor

Minor (6 hours must be advanced) 18

Electives

Electives (12 hours must be advanced) 12

B.A. Music (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 1306	3	MUSI 1312	3
MUAP 1101	1	MUSI 1117	1
Major Ensemble (lower division)	1	MUAP 1102	1
ENGL 1301	3	Major Ensemble (lower division)	1
Mathematics	3	ENGL 1302 or 2311	3
Modern Language 1301	3	COMM 1315	3
GS 1181	1	Modern Language 1302	3
TOTAL	15	TOTAL	15

Second Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 2311	3	MUAP 2102	1
MUAP 2101	1	Major Ensemble (lower division)	1
Major Ensemble (lower division)	1	POLS 2306	3
POLS 2305	3	HIST 1302	3
HIST 1301	3	Modern Language 2312	3
Modern Language 2311	3	Minor	3
TOTAL	14	TOTAL	14

Third Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 3251	2	MUSI 3341	3
MUSI 3340	3	MUAP 3102	1
MUAP 3101	1	Major Ensemble (upper division)	1
Major Ensemble (upper division)	1	Social and Behavioral Science	3
MUAP, MUEN, MUSI Electives (advanced)	2	Life and Physical Sciences	3
Language, Philosophy, Culture	3	Core 090	2
Life and Physical Sciences	3	Minor	3
TOTAL	15	TOTAL	16

Fourth Year

Fall		Spring	
MUAP, MUEN, MUSI Electives (advanced)	2	MUAP, MUEN, MUSI Electives (advanced)	2
Humanities	3	Minor (advanced)	3
Minor	3	Minor	3
Minor (advanced)	3	Electives (advanced)	3
Electives (advanced)	6	Electives (advanced)	3
TOTAL	17	TOTAL	14

* Applied study in the major instrument.

Bachelor of Music (B.M.)

Piano Placement Exam

Incoming B.M. students with a substantial background in piano studies may attempt to test out of all or part of the class piano sequence by taking the Piano Placement Exam prior to the drop/add deadline of their first semester of matriculation. Students who do not pass this exam must take MUSI 1181 during their first semester of study. Students who test out of one or more semesters of class piano must successfully complete 1-3 semester credit hours of elective study in music to complete the required hours in music.

Applied Performance Specialization Areas

Applied Performance - Instrumental or Voice

The B.M. with a specialization in Applied Performance focuses on training the student to perform. This specialization emphasizes the technique, repertoire, pedagogy, and applied performance aspects of the student's instrument/voice. It features an engaging mix of private instruction, large ensemble and small ensemble experiences, solo performances, and academic coursework in music. Students will declare either a vocal or instrumental emphasis.

Bachelor of Music (B.M.)
Music

(125 semester hours)

Academic Major
Specialization area in Applied Performance-Instrumental

	Hours
MUSI 1000 (B.M. with Applied Performance - eight semesters)	0
MUSI 1117, 1211, 1306, 1312, 2116, 2117, 2311, 2312	17
MUSI 1182, 2181, 2182, or music electives	3
MUSI 3251, 3340, 3341, 4152, 4230	11
MUAP 1201, 1202 *	4
MUAP 2201, 2202 *	4
MUAP 3201, 3202 *	4
MUAP 4199	1
Major ensemble (lower division)	4
Major ensemble (upper division)	4
Specialization area - Instrumental	
MUAP 3199	1
MUAP 4201, 4202	4
Small or Secondary Ensemble (lower division)	4
Small or Secondary Ensemble (upper division)	4
Small Ensemble, (upper division)	4
MUSI 3191, 4191, 4192, 4193	4
MUAP, MUEN, MUSI electives (5 hours must be advanced)	7

Major Support Course

General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	6

B.M. Music/Applied Performance - Instrumental (125 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 1211	2	MUSI 1312	3
MUSI 1306	3	MUSI 1117	1
MUAP 1201	2	MUAP 1202	2
Major Ensemble (lower division)	1	Major Ensemble (lower division)	1
Small or Sec. Ens. (lower division)	1	Small or Sec. Ens. (lower division)	1
ENGL 1301	3	MUSI 1182	1
Mathematics	3	ENGL 1302 or 2311	3
GS 1181	1	COMM 1315	3
TOTAL	16	TOTAL	15

Second Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 2116	1	MUSI 2117	1
MUSI 2311	3	MUSI 2312	3
MUSI 2181	1	MUSI 2182	1
MUAP 2201	2	MUAP 2202	2
Major Ensemble (lower division)	1	Major Ensemble (lower division)	1
Small or Sec. Ens. (lower division)	1	Small or Sec. Ens. (lower division)	1
POLS 2305	3	POLS 2306	3
HIST 1301	3	HIST 1302	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 3251	2	MUSI 3341	3
MUSI 3340	3	Major Ensemble (upper division)	1
Major Ensemble (upper division)	1	Small Ensemble (upper division)	1
Small Ensemble (upper division)	1	Small or Sec. Ens. (upper division)	1
Small or Sec. Ens. (upper division)	1	MUAP 3202	2
MUAP 3201	2	MUAP 3199	1
MUSI 4230	2	MUAP, MUEN, MUSI Electives	2
MUSI 3191	1	Life and Physical Sciences	3
Life and Physical Sciences	3	Core 090	2
TOTAL	16	TOTAL	16

Fourth Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 4152	1	Major Ensemble (upper division)	1
MUAP 4201	2	Small Ensemble (upper division)	1
Major Ensemble (upper division)	1	Small or Sec. Ens. (upper division)	1
Small Ensemble (upper division)	1	MUSI 4193	1
Small or Sec. Ens. (upper division)	1	MUAP 4202	2
MUSI 4191	1	MUAP 4199	1
MUSI 4192	1	Language, Philosophy, Culture	3
Social and Behavioral Science	3	MUAP, MUEN, MUSI Electives (advanced)	3
MUAP, MUEN, MUSI Electives (advanced)	2	Electives	3
Electives	3	TOTAL	16
TOTAL	16		

* Applied study in the major instrument.

Bachelor of Music (B.M.)
Music

(125 semester hours)

Academic Major
Specialization area in Applied Performance - Voice

	Hours
MUSI 1000 (B.M. with Applied Performance - eight semesters)	0
MUSI 1117, 1211, 1306, 1312, 2116, 2117, 2311, 2312	17
MUSI 1182, 2181, 2182, or music electives	3
MUSI 3251, 3340, 3341, 4152, 4230	11
MUAP 1201, 1202 *	4
MUAP 2201, 2202 *	4
MUAP 3201, 3202 *	4
MUAP 4199	1
Major ensemble (lower division)	4
Major ensemble (upper division)	4
Specialization area - Voice	
MUAP 3199	1
MUAP 4201, 4202	4
MUEN 1102	4
MUEN 3101	4
MUEN 3102	4
MUSI 2183, 2184, 3190, 4190, 4192, 4193	6
Theatre 3320	3
French 1301 and German 1301	6
MUAP, MUEN, MUSI electives (advanced)	2

Major Support Course

General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

B.M. Music/Applied Performance - Voice (125 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 1211	2	MUSI 1312	3
MUSI 1306	3	MUSI 1117	1
MUAP 1201	2	MUAP 1202	2
MUEN 1100	1	MUEN 1100	1
MUEN 1102	1	MUEN 1102	1
ENGL 1301	3	MUSI 1182	1
Mathematics	3	ENGL 1302 or 2311	3
GS 1181	1	COMM 1315	3
TOTAL	16	TOTAL	15

Second Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 2116	1	MUSI 2117	1
MUSI 2311	3	MUSI 2312	3
MUSI 2181	1	MUSI 2182	1
MUAP 2201	2	MUAP 2202	2
MUEN 1100	1	MUEN 1100	1
MUEN 1102	1	MUEN 1102	1
MUSI 2183	1	MUSI 2184	1
POLS 2305	3	POLS 2306	3
HIST 1301	3	HIST 1302	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 3251	2	MUSI 3341	3
MUSI 3340	3	MUEN 3100	1
MUEN 3100	1	MUEN 3101	1
MUEN 3101	1	MUEN 3102	1
MUEN 3102	1	MUAP 3202	2
MUAP 3201	2	MUAP 3199	1
MUSI 4230	2	German 1301	3
MUSI 3190	1	Theatre 3320	3
French 1301	3	TOTAL	15
TOTAL	16		

Fourth Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 4152	1	MUEN 3100	1
MUAP 4201	2	MUEN 3101	1
MUEN 3100	1	MUEN 3102	1
MUEN 3101	1	MUSI 4193	1
MUEN 3102	1	MUAP 4202	2
MUSI 4190	1	MUAP 4199	1
MUSI 4192	1	Social and Behavioral Science	3
Language Philosophy, Culture	3	Life and Physical Sciences	3
MUAP, MUEN, MUSI Electives (advanced)	1	Core 090	2
Life and Physical Sciences	3	MUAP, MUEN, MUSI Electives (advanced)	1
TOTAL	15	TOTAL	16

* Applied study in the major instrument.

Teacher Certification Specialization Areas

Teacher Certification * - Instrumental/Piano or Voice

The B.M. with a specialization in Teacher Certification is designed to provide the student with certification to teach music at all public school grade levels in Texas. The student must have been admitted into the Teacher Education Program and must be currently satisfying admission standards before being allowed to enroll in Education 4315. Students will declare either a vocal or instrumental emphasis.

Bachelor of Music (B.M.)
Music Major with All-level Teacher Certification

(125 semester hours)

Academic Major
Specialization area in Instrumental/Piano **Hours**

MUSI 1000 (B.M. with cert. - seven semesters)	0
MUSI 1117, 1211, 1306, 1312, 2116, 2117, 2311, 2312	17
MUSI 1182, 2181, 2182, or music electives	3
MUSI 3251, 3340, 3341, 4152, 4230	11
MUAP 1201, 1202 **	4
MUAP 2201, 2202 **	4
MUAP 3201, 3202 **	4
MUAP 4199	1
Major ensemble (lower division)	4
Major ensemble (upper division - B.M. with cert.)	3

Specialization area - Instrumental/Piano

MUAP 4101	1
MUSI 1183, 1185, 1186, 1187, 1188	5
MUSI 3233, 3234, 4132	5

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Education

Education 4315*, 4321*, 4322*, 4974*	18
Educational Psychology 3303	3
Reading 4320*	3

B.M. Music/Teacher Certification - Instrumental/Piano (125 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 1211	2	MUSI 1312	3
MUSI 1306	3	MUSI 1117	1
MUAP 1201	2	MUAP 1202	2
Major Ensemble (lower division)	1	Major Ensemble (lower division)	1
ENGL 1301	3	MUSI 1182	1
Mathematics	3	MUSI 1183	1
GS 1181	1	ENGL 1302 or 2311	3
TOTAL	15	COMM 1315	3
		Social and Behavioral Science	3
		TOTAL	18

Second Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 2116	1	MUSI 2117	1
MUSI 2311	3	MUSI 2312	3
MUSI 118X	1	MUSI 118x	1
MUAP 2201	2	MUAP 2202	2
Major Ensemble (lower division)	1	Major Ensemble (lower division)	1
MUSI 2181	1	MUSI 2182	1
POLS 2305	3	POLS 2306	3
HIST 1301	3	HIST 1302	3
TOTAL	15	EPSY 3303	3
		TOTAL	18

Third Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 3251	2	MUSI 3341	3
MUSI 3340	3	MUSI 118x	1
MUSI 118x	1	Major Ensemble (upper division)	1
Major Ensemble (upper division)	1	MUAP 3202	2
MUAP 3201	2	MUSI 4132	1
MUSI 4230	2	MUSI 3233	2
Life and Physical Sciences	3	Life and Physical Sciences	3
RDG 4320	3	ED 4321	3
TOTAL	17	TOTAL	16

Fourth Year

Fall		Spring	
MUSI 1000	0	ED 4315	3
MUSI 4152	1	ED 4974	9
MUSI 3234	2	TOTAL	12
MUAP 4101	1		
MUAP 4199	1		
Major Ensemble (upper division)	1		
Language, Philosophy, Culture	3		
Core 090	2		
ED 4322	3		
TOTAL	14		

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

** Applied study in the major instrument.

Bachelor of Music (B.M.)
Music Major with All-level Teacher Certification

(125 semester hours)

Academic Major
Specialization area in Voice — Hours

MUSI 1000 (B.M. with cert. - seven semesters)	0
MUSI 1117, 1211, 1306, 1312, 2116, 2117, 2311, 2312	17
MUSI 1182, 2181, 2182, or music electives	3
MUSI 3251, 3340, 3341, 4152, 4230	11
MUAP 1201, 1202 *	4
MUAP 2201, 2202 *	4
MUAP 3201, 3202 *	4
MUAP 4199	1
Major ensemble (lower division)	4
Major ensemble (upper division)	3
Specialization area - Voice	
MUAP 4101	1
MUSI 1185, 1186, 1187, 1188	2
MUSI 2183, 2184	2
MUSI 3233, 3235, 4131, 4190	6

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Education

Education 4315**, 4321**, 4322**, 4974**	18
Educational Psychology 3303	3
Reading 4320**	3

B.M. Music/Teacher Certification - Voice (125 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 1211	2	MUSI 1312	3
MUSI 1306	3	MUSI 1117	1
MUAP 1201	2	MUAP 1202	2
MUEN 1100	1	MUEN 1100	1
ENGL 1301	3	MUSI 1182	1
Mathematics	3	ENGL 1302 or 2311	3
GS 1181	1	COMM 1315	3
TOTAL	15	Social and Behavioral Science	3
		TOTAL	17

Second Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 2116	1	MUSI 2117	1
MUSI 2311	3	MUSI 2312	3
MUSI 2181	1	MUSI 2182	1
MUAP 2201	2	MUAP 2202	2
MUEN 1100	1	MUEN 1100	1
MUSI 2183	1	MUSI 2184	1
POLS 2305	3	POLS 2306	3
HIST 1301	3	HIST 1302	3
TOTAL	15	EPSY 3303	3
		TOTAL	18

Third Year

Fall		Spring	
MUSI 1000	0	MUSI 1000	0
MUSI 3251	2	MUSI 3341	3
MUSI 3340	3	MUSI 118x	1
MUSI 118x	1	MUEN 3100	1
MUEN 3100	1	MUAP 3202	2
MUAP 3201	2	MUSI 4131	1
MUSI 4230	2	MUSI 3233	2
Life and Physical Sciences	3	Life and Physical Sciences	3
RDG 4320	3	ED 4321	3
TOTAL	17	TOTAL	16

Fourth Year

Fall		Spring	
MUSI 1000	0	ED 4315	3
MUSI 4152	1	ED 4974	9
MUSI 3235	2	TOTAL	12
MUSI 4190	1		
MUAP 4101	1		
MUAP 4199	1		
MUEN 3100	1		
Language, Philosophy, Culture	3		
Core 090	2		
ED 4322	3		
TOTAL	15		

Minors in Music

ASU offers two minors in music: the Minor in Music-Vocal/Instrumental and the Minor in Music Studies. Music minors enrolled in applied music must concurrently enroll in a major ensemble. Music minors must complete MUSI 1211 and 1306 prior to registering for MUSI 3340 and 3341.

Minor in Music-Vocal/Instrumental: Music (MUSI) 1211, 1306, 3340, 3341, four semesters of major ensemble (lower division), one semester of elective major ensemble or small ensemble (lower division), and MUAP 1101, and MUAP 1102.

Minor in Music Studies: Music (MUSI) 1117 or 1180 or 1181, 1211, 1306, 1312, 2311, 3340, 3341.

Students interested in the minor in Music-Vocal/Instrumental must perform an entrance audition prior to the beginning of their first semester of applied music study. Contact the department at 325-942-2085 to schedule an audition and for specific audition requirements.

* Applied study in the major instrument.

** Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

Bachelor of Arts (B.A.)
Theatre

(120 semester hours)

Academic Major	Hours
Theatre 1120, 1121, 2120, 2121, 1341, 1330, 1351, 2321	16
Theatre 3311, 3331, 4301, 4311, 4312, 4321	18
Theatre electives	
Theatre 1322, 1342, 1352, 2310, 2331	6
Theatre Specialization Area (advanced)	12

Major Support Courses

General Studies 1181	1
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives (6 hours must be advanced) 10

Specialization Areas

Theatre specialization areas are designed to provide students with the opportunity to focus their studies in a particular area of the Theatre discipline. However, these specialization areas do not constitute separate academic majors or degree programs.

Design and Technology

Theatre 3334	3
Theatre 3341	3
Theatre 4323	3
Theatre 4381	3

Generalist

Theatre (advanced)	12

Performance

Theatre 3320	3
Theatre 3353	3
Theatre 4351	3
Theatre 4381	3

B.A. Theatre, Design and Technology (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
TH 1120	1	TH 1121	1
TH 1330	3	TH 1341	3
TH 1351	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1301	3
Mathematics	3	Social and Behavioral Sciences	3
Modern Language 1301	3	Modern Language 1302	3
GS 1181	1	TOTAL	16
TOTAL	17		

Second Year

Fall		Spring	
TH 2120	1	TH 2121	1
TH 2321	3	TH 1342	3
TH 2331	3	POLS 2306	3
Creative Arts	3	COMM 1315	3
Modern Language 2311	3	HIST 1302	3
POLS 2305	3	Modern Language 2312	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
TH 4311	3	TH 3311	3
TH 4323 (Specialization)	3	TH 3334 (Specialization)	3
TH 4381 (Specialization - Technical topic)	3	TH 3341 (Specialization)	3
Humanities	3	Language, Philosophy, and Culture	3
Elective	3	Life and Physical Sciences	3
TOTAL	15	Elective	1
		TOTAL	16

Fourth Year

Fall		Spring	
TH 3331	3	TH 4301	3
TH 4312	3	Core 090	3
TH 4321	3	Elective (advanced)	3
Life and Physical Sciences	3	Elective (advanced)	3
TOTAL	12	TOTAL	12

B.A. Theatre, Generalist (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
TH 1120	1	TH 1121	1
TH 1330	3	TH 1341	3
TH 1351	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Modern Language 1302	3
Modern Language 1301	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	16
TOTAL	17		

Second Year

Fall		Spring	
TH 2120	1	TH 2121	1
TH 2321	3	TH 3311	3
TH 3331	3	COMM 1315	3
Creative Arts	3	POLS 2306	3
Modern Language 2311	3	Mathematics	3
POLS 2305	3	Modern Language 2312	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
TH 4311	3	TH 4312	3
TH (Specialization - advanced)	3	TH (Specialization - advanced)	3
Theatre elective	3	Language, Philosophy, and Culture	3
Theatre elective	3	Life and Physical Sciences	3
Humanities	3	Elective	1
TOTAL	15	Elective (advanced)	3
		TOTAL	16

Fourth Year

Fall		Spring	
TH 4321	3	TH 4301	3
TH (Specialization - advanced)	3	TH (Specialization - advanced)	3
Theatre elective (advanced)	3	Core 090	3
Life and Physical Sciences	3	Elective	3
TOTAL	12	TOTAL	12

B.A. Theatre, Performance (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
TH 1120	1	TH 1121	1
TH 1330	3	TH 1341	3
TH 1351	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Modern Language 1302	3
Modern Language 1301	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	16
TOTAL	17		

Second Year

Fall		Spring	
TH 2120	1	TH 2121	1
TH 2321	3	TH 3311	3
TH 3331	3	COMM 1315	3
Creative Arts	3	Mathematics	3
Modern Language 2311	3	Modern Language 2312	3
POLS 2305	3	POLS 2306	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
TH 1322	3	TH 3320 (Specialization)	3
TH 1352	3	Language, Philosophy, and Culture	3
TH 4311	3	Life and Physical Sciences	3
TH 4381 (Specialization)	3	Elective	3
Humanities	3	Elective (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
TH 4312	3	TH 3353 (Specialization)	3
TH 4321	3	TH 4301	3
Life and Physical Sciences	3	TH 4351 (Specialization)	3
Elective	3	Core 090	3
TOTAL	12	Elective	1
		TOTAL	13

Bachelor of Arts (B.A.)
Theatre Major with All-Level Teacher Cert. *

(120 semester hours)

Academic Major	Hours
Theatre 1120, 1121, 1341, 1330, 1351, 2310, 2321	17
Theatre 3331, 4301, 4311, 4312, 4321	15
Theatre (advanced)	3

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Mathematics 1314, 1316, 1324, 1332, 1342, 2312, 2412, 2413	3
Modern Language 1301, 1302, 2311, 2312 in a single modern language	12
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4974*	9

Teacher Certification. The student who chooses theatre as a teaching field must complete: Theatre 1120, 1121, 1330, 1341, 1351, 2310, 2321, 3331, 4301, 4311, 4312, 4321.

B.A. Theatre, All-level Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
TH 1120	1	TH 1121	1
TH 1330	3	TH 1341	3
TH 1351 or TH 1352	3	ENGL 1302 or 2311	3
ENGL 1301	3	HIST 1302	3
HIST 1301	3	Modern Language 1302	3
Modern Language 1301	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	16
TOTAL	17		

Second Year

Fall		Spring	
TH 2321	3	TH 2310	3
TH 3331	3	COMM 1315	3
Creative Arts	3	Mathematics	3
Modern Language 2311	3	Modern Language 2312	3
POLS 2305	3	POLS 2306	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
TH 4311	3	TH 4312	3
TH (advanced)	3	ED 4321	3
EPSY 3303	3	RDG 4320	3
Language, Philosophy, and Culture	3	Core 090	2
Life and Physical Sciences	3	Humanities	3
TOTAL	15	Life and Physical Sciences	3
		TOTAL	17

Fourth Year

Fall		Spring	
TH 4301	3	ED 4323	3
TH 4321	3	ED 4974	9
EPSY 3314	3	TOTAL	12
ED 4322	3		
Elective	1		
TOTAL	13		

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

College of Arts and Humanities

Additional Programs

Interim Dean of the College: Dr. Micheal W. Salisbury

Contact Information: Carr Building, Room 146
Telephone: 325-942-2162

Applied Arts and Sciences

The Bachelor of Applied Arts and Sciences is designed to be a pathway to baccalaureate degree completion for students who have already completed an associate's degree from an accredited institution of higher education or who have completed at least 12 hours of transfer credit. This degree program is also beneficial for students with extensive credits through military training but who have not yet earned a degree. The specialization may be from any available area, although selecting a specialization to match the student's prior course work will facilitate entering into the upper division courses required.

NOTE: The B.A.A.S. degree cannot be used in a dual degree.

Bachelor of Applied Arts and Sciences (B.A.A.S.)

(120 semester hours)

Major-Academic Specialization **Hours**
Specialization Area 30-33
(choose from specialization areas below)

Core Curriculum
See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives
Electives 45-48
Electives can include vocational, technical, or academic transfer credits. 30 hours of advanced hours are required for the B.A.A.S. degree. If the advanced hour requirement is not met within the specialization area, advanced hours may need to be taken as elective credits.

AU-ABC Partnership

The B.A.A.S. degree with a specialization in Adult Education, Computer Science, and Criminal Justice has been approved by Air University to be included in the AU-ABC program. Degrees in the AU-ABC program allow students to transfer all 60 hours of their Associate Degree from CCAF into the course requirements. Since the B.A.A.S. requires 120 SCH and all 60 hours from the CCAF degree will be used, the student is only required to complete an additional 60 SCH to complete the B.A.A.S.

The B.A.A.S. program allows vocational/technical credits to be applied towards the degree. Should students choose to change to another degree plan, the technical/vocational credits originally accepted and applied may not apply to another degree program.

Specialization Areas

Adult Education **Hours**
EDAE 3301, 3310, 3311, 3330, 3340, 4310, 4320, 4321, 4330, 4340 30

Computer Science **Hours**
CS 1336, 1337, 2336, 3311, 4306 15
CS electives (must be advanced) * 18

Criminal Justice **Hours**
CRIJ 3302, 3305, 3310, 3312, 4354 15
CRIJ (9 hours must be advanced) 15

Homeland Security **Hours**
BOR 3301, 3340, 4330, 4351, 4354, 4389 18
BOR (6 hours must be advanced) 12

Academic courses taken either as part of the associate's degree or independent of it may apply toward the core curriculum requirements. Associate's degrees from Texas community colleges include at least 9-15 semester credit hours of academic coursework which may be counted toward the core curriculum requirements.

For more information, please refer to the Requirements for the Bachelor of Applied Arts and Sciences Degree on page 176 of this Catalog.

Undergraduate Certificate Available in Adult Education

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any course work for certificates must be taken in residence.

Certificate - Online Instructor
(12 SCH required)
Choose 4 courses from the following:
EDAE 3301 Adult Learning Theories 3
EDAE 3330 Teaching and Practice in Adult Education 3
EDAE 3340 Principles of Assessment 3
EDAE 4320 Trends in Training and Development 3
EDAE 4330 Instructional Methods and Practices 3

* The electives may be chosen to fulfill requirements of any of the undergraduate certificates offered by the Computer Science department. See page 112. Please contact the department of Computer Science for advising and information.

Interdisciplinary Studies

The purpose of the Bachelor of Interdisciplinary Studies (B.I.S.) degree is to provide students the opportunity to apply coursework in multiple fields towards an undergraduate degree. It is well suited for students whose career goals call for training in more than one discipline or who want a breadth of knowledge in several fields rather than a depth of knowledge in a single discipline. For information about the B.I.S. degree contact the College of Arts and Humanities.

NOTE: The B.I.S. degree cannot be used in a dual degree. No more than one business minor may be used as part of the B.I.S. major.

Bachelor of Interdisciplinary Studies (B.I.S.)

(120 semester hours)

Major	Hours
Minor 1 (6 hours must be advanced)	18
Minor 2 (6 hours must be advanced)	18
Major Support Course	
General Studies 1181	1
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Electives	
Electives (24 must be advanced)	41

The B.I.S. degree consists of a multiple discipline academic major, other requirements, and electives totaling at least 120 credit hours. No more than 30 credit hours from any of the business disciplines (accounting, business, business computer information systems, economics, finance, management, and marketing) may be used to fulfill the B.I.S. degree requirements. For the B.I.S. degree, the multiple discipline academic major is comprised of two minors. Any single area minor offered at Angelo State University may be used providing it has no less than eighteen credit hours with at least six of them at the advanced level, with the exception that no more than one business minor (Business Administration, Management, Marketing, Accounting, or Finance) may be used to fulfill the multiple discipline academic major, as this would exceed the 30 credit hour limit for business courses mentioned above.

For more information, please refer to the Requirements for the Bachelor of Interdisciplinary Studies Degree on page 178 of this Catalog.

Multiple Discipline Academic Major

The academic major in the Bachelor of Interdisciplinary Studies requires 36 hours minimum. Any two single area minors offered at Angelo State University-see list below. Multiple-discipline minors are accepted as single area minors. Each minor must have at least eighteen hours with at least six hours in each minor at the advanced level. The multiple-area minor may not be used.

A comprehensive list of minors, including specific minor requirements, is located on page 187.

Accounting
Ag Science and Leadership
Agricultural Economics
Animal Science
Art
Astronomy
Banking
Biology
Border Security
Business Administration
Chemistry
Coaching Preparation
Communication
Computer Science
Creative Writing
Criminal Justice
Cybersecurity
Education
English
Ethnic Studies
Film Studies
Finance
Food Science
French
Gender Studies
Geoscience
German
Health Science Professions
History
Intelligence and Analysis
Journalism
Kinesiology
Leadership Studies
Management for Non-Business Major
Marketing
Mass Media
Mathematics
Music-Vocal/Instrumental
Music Studies
Philosophy
Physics
Political Science
Professional Education
Psychology
Public Relations
Range and Wildlife Management
Reading *
Russian
Social Work
Sociology
Spanish
Technical Writing
Theatre
World Cultures

NOTE: The B.I.S. degree cannot be used in a dual degree. No more than one business minor may be used as part of the B.I.S. major.

* The Reading minor is available for the B.I.S. degree by special permission of the department chair of Teacher Education. Only the following courses should be used for the 18 SCH Reading minor: Reading 2306, 3332, 3335, 3336, 3339 or 4320, 4301.

College of Education

Dean: Dr. Scarlet M. Clouse
Associate Dean: Dr. Kimberly K. Livengood
Office: Carr Education-Fine Arts Building, Room 285
Telephone: 325-942-2212, **Fax:** 325-942-2039
E-Mail: college.education@angelo.edu

The College of Education houses two dynamic departments: the Department of Curriculum and Instruction, and the Department of Teacher Education. Taught by some of the finest teachers at Angelo State University, our programs are diverse and varied. The college offers courses online and the traditional Monday through Friday schedule. Faculty in the college are engaged in exemplary research and a variety of special grant programs.

The Departments of Teacher Education and Curriculum and Instruction offer programs leading to teacher certification at the elementary, middle-school, and high school levels. Professional programs at the Master's Degree level help prepare school personnel for professional non-teaching positions throughout a public school system. Although students are assigned an academic advisor, all of the faculty advise students and are willing to work with students all the time.

The College of Education has a center for teacher preparation information. The Educator Preparation Information (EPI) Center is located in Carr-EFA 287. The center staff advises all students who seek information about becoming a professional educator. Dedicated professionals can answer questions about becoming a teacher or other school professionals, routes to certification, how to obtain a certificate, how to test, field experience, yearlong teacher residency, and student/clinical teaching placements, degree plans, and graduation requirements. Contact the center with questions about becoming a teacher or other school professional.

The faculty in the College of Education are dedicated professionals who prepare individuals for leadership positions in public school, college and university, and public sector positions.

Departments and Programs

Students in the College of Education may pursue studies in the following departments.

Department of Curriculum and Instruction

Programs of Study

M.A.	Administrative Leadership
M.A.	Curriculum and Instruction
M.S.	Educational Leadership
M.A.	Mental Health and Wellness Counseling
M.A.	Professional Counseling with LPC
M.Ed.	School Counseling
M.Ed.	Student Development and Leadership in Higher Education
Ed.D.	Transformative Leadership

Department of Teacher Education

Programs of Study

B.S.	Education with teacher certification options in: Early Childhood to Grade 6 Generalist Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification Generalist, Grades 4 to 8

Additional programs

Program of Study in Applied Arts and Sciences (see page 89)

B.A.A.S.	Applied Arts and Sciences with Specialization Area Adult Education

For a complete list of minors see page 187.

College of Education:

Department of Teacher Education

Interim Department Chair: Carlos A. Flores, Jr.

Faculty: Bustos, Carruth, Flores, Gee, Lackey, Solomon, Stribling, Varbelow.
Distinguished Professor Emeritus: Miazga.

Contact Information: Carr Education-Fine Arts Building, Room 104
Telephone: 325-942-2052, Fax: 325-942-2039
http://www.angelo.edu/dept/education/

Teacher Education
Bachelor of Science (B.S.)
Education
Early Childhood to Grade 6 Generalist, Teacher Certification

(120 semester hours)

Major	Hours
Biology 1308/1108, Geology 1301/1101 or 1303/1103	8
Geography 2305	3
History 1301, 1302, 3301	9
Mathematics 1350, 1351, 1352	9
Physical Science 3311, 3312	6
Political Science 2305, 2306	6
Reading 2306, 3332, 3335, 3336, 4301, 4303	18

Major Support Courses	
Arts 1302, Music 1306, Theatre 1310	3
Communication 1315	3
Early Childhood 2305, 3350, 4350	9
Educational Psychology 3303, 3314	6
English 1301, 1302	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Special Education 2361	3

Education	
Education 2302	3
Education 4309 *, 4311 *, 4314 *	9
Education 4315 * or Education 4332**	3
Education 4331 *	3
Education 4975 *	9

Students are to consult with an Advisor in the Educator Preparation Information Center (EPIC) located in CARR-EFA 287. Visit the College of Education website.

Except for courses used as electives, a grade of "C" or better is required on all course work. A grade point average (GPA) of 2.75 is required. The GPA requirements are subject to change per TEA rules. See page 159.

* Requires admission to the Teacher Education Program (TEP) prior to enrolling in any senior-level Education course. See page 158 College of Education Teacher Certification section for detailed information regarding admission to the EPP.

** Education 4332 will be for Ram Resident students and requires admission to the Teacher Education Program (TEP) and the Ram Resident program prior to enrolling for the courses.

B.S. Education, Early Childhood to Grade 6 Generalist, Teacher Certification (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302	3
HIST 1301	3	HIST 1302	3
MATH 1350	3	ECH 2305	3
ED 2302	3	COMM 1315	3
ARTS 1302, MUSI 1306, TH 1310	3	MATH 1351	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
BIOL 1308/1108	4	GEOG 2305	3
RDG 2306	3	EPSY 3303	3
POLS 2305	3	POLS 2306	3
Sophomore Lit (from list)	3	RDG 3335	3
MATH 1352	3	SPED 2361	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
GEOL 1301/1101, 1303/1103	4	ECH 4350	3
ECH 3350	3	EPSY 3314	3
PS 3311	3	PS 3312	3
RDG 3332	3	RDG 3336	3
HIST 3301	3	RDG 4303	3
TOTAL	16	TOTAL	15

Fourth Year

Fall		Spring	
BLOCK I - Field-based Experience		*BLOCK II - Student/Clinical Teaching*	
ED 4309	3	ED 4315 or ED 4332**	3
ED 4311	3	ED 4975	9
ED 4314	3	TOTAL	12
ED 4331	3		
RDG 4301	3		
TOTAL	15		

Bachelor of Science (B.S.)
Education
Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification

(120 semester hours)

This option is only available for the Texas 2-Step students who are currently paraprofessionals in the SPED field.

Major	Hours
Biology 1308/1108, Geology 1301/1101 or 1303/1103	8
Geography 2305	3
History 1301, 1302, 3301	9
Mathematics 1350, 1351, 1352	9
Physical Science 3311, 3312	6
Political Science 2305, 2306	6
Reading 2306, 3332, 3335	9
Special Education 2361, 3360, 3364, 3365, 4362, 4363	18

Major Support Courses

Arts 1302, Music 1306, Theatre 1310	3
Communication 1315	3
Early Childhood 2305, 3350	6
Educational Psychology 3303, 3314	6
English 1301, 1302	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1

Education

Education 2302	3
Education 4309 *, 4311 *, 4314 *	9
Education 4315 * or Education 4332**	3
Education 4975 *	9

Students are to consult with an Advisor in the Educator Preparation Information Center (EPIC) located in CARR-EFA 287. Visit the College of Education website.

Except for courses used as electives, a grade of "C" or better is required on all course work. A grade point average (GPA) of 2.75 is required. The GPA requirements are subject to change per TEA rules. See page 159.

B.S. Education, Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302	3
HIST 1301	3	HIST 1302	3
MATH 1350	3	ECH 2305	3
ED 2302	3	COMM 1315	3
ARTS 1302, MUSI 1306, TH 1310	3	MATH 1351	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
BIOL 1308/1108	4	GEOG 2305	3
RDG 2306	3	EPSY 3303	3
POLS 2305	3	POLS 2306	3
Sophomore Lit (from list)	3	RDG 3335	3
MATH 1352	3	SPED 2361	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
GEOL 1301/1101, 1303/1103	4	ECH 3350	3
SPED 3360	3	EPSY 3314	3
PS 3311	3	PS 3312	3
RDG 3332	3	SPED 3364	3
HIST 3301	3	SPED 3365	3
TOTAL	16	TOTAL	15

Fourth Year

Fall		Spring	
BLOCK I - Field-based Experience		*BLOCK II - Student/Clinical Teaching*	
ED 4309	3	ED 4315 or ED 4332**	3
ED 4311	3	ED 4975	9
ED 4314	3	TOTAL	12
SPED 4362	3		
SPED 4363	3		
TOTAL	15		

* Requires admission to the Teacher Education Program (TEP) prior to enrolling in any senior-level Education course. See page 158 College of Education Teacher Certification section for detailed information regarding admission to the EPP.

** Education 4332 will be for Ram Resident students and requires admission to the Teacher Education Program (TEP) and the Ram Resident program prior to enrolling for the courses.

Bachelor of Science (B.S.)
Education
Generalist Grades 4-8, Teacher Certification

(121 semester hours)

Major	Hours
Biology 1306/1106, 1307/1107, Geology 1301/1101 or 1303/1103	12
Geography 2305	3
History 1301, 1302, 3301	9
Mathematics 1342, 1350, 1351, 1352	12
Physical Science 3311, 3312	6
Physics 1304	3
Reading 2306, 3332, 3336, 3339, 4301, 4303	18

Major Support Courses

Arts 1302, Music 1306, Theatre 1310	3
Communication 1315	3
Education Psychology 3303, 3314	6
English 1301, 1302	6
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Political Science 2305, 2306	6
Special Education 2361	3

Education

Education 2302	3
Education 4309 *, 4311 *, 4314 *	9
Education 4315 * or 4332**	3
Education 4331**	3
Education 4972 *	9

Students are to consult with an Advisor in the Educator Preparation Information Center (EPIC) located in CARR-EFA 287. Visit the College of Education website.

Except for courses used as electives, a grade of "C" or better is required on all course work. A grade point average (GPA) of 2.75 is required. The GPA requirements are subject to change per TEA rules. See page 159.

B.S. Education, Generalist Grades 4-8, Teacher Certification (121 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302	3
HIST 1301	3	HIST 1302	3
MATH 1350	3	ARTS 1302, MUSI 1306, TH 1310	3
GS 1181	1	MATH 1351	3
ED 2302	3	PHYS 1304	3
COMM 1315	3	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
BIOL 1307/1107	4	MATH 1342	3
POLS 2305	3	POLS 2306	3
MATH 1352	3	SPED 2361	3
RDG 2306	3	BIOL 1306/1106	4
Sophomore Lit (from list)	3	RDG 3332	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
PS 3311	3	EPSY 3314	3
RDG 3336	3	PS 3312	3
RDG 3339	3	RDG 4303	3
HIST 3301	3	EPSY 3303	3
GEOL 1301/1101, 1303/1103	4	GEOG 2305	3
TOTAL	16	TOTAL	15

Fourth Year

Fall		Spring	
BLOCK I - Field-based Experience		*BLOCK II - Student/Clinical Teaching*	
ED 4309	3	ED 4315 or 4332**	3
ED 4311	3	ED 4972	9
ED 4314	3	TOTAL	12
ED 4331	3		
RDG 4301	3		
TOTAL	15		

Minors

Education Minor. The Education minor is eighteen (18) semester credit hours (SCH) selected from the following list. Nine hours must be advanced hours. All prerequisites apply to the courses. An individual completing this minor will not be eligible for Texas teacher certification. Select from Early Childhood 2305, Education 2302, Educational Psychology 3314, Educational Psychology 3303, Reading 2306, Reading 3332, Reading 3335, Reading 3336, Reading 3339, or Special Education 2361.

Professional Education Minor. All prerequisites will apply to the courses. Individuals choosing this minor will have to successfully meet all requirements required for admission to the Teacher Education Program (TEP) regardless of their degree. These courses, with additional coursework related to Student/Clinical Teaching, prepare the individual for Texas secondary teacher certification. To become fully certified additional requirements by the State of Texas must be met. This minor can only be used in conjunction with a degree leading to Texas Teacher certification. Any exception will need special permission from the Department Chair of Teacher Education. Contact the Educator Preparation Information Center Advisor for information about Texas Teacher Certification requirements. Professional Education minor: Educational Psychology 3303, Educational Psychology 3314, Education 4321, Education 4322, Education 4323, and Reading 4320.

Adult Education Minor. The Adult Education minor is eighteen (18) semester credit hours (SCH) selected from the following list. Select from Education - Adult Education 3301, 3310, 3311, 3330, 3340, 4310, 4320, 4321, 4330, 4340.

* Requires admission to the Teacher Education Program (TEP) prior to enrolling in any senior-level Education course. See page 158 College of Education Teacher Certification section for detailed information regarding admission to the EPP.

** Education 4332 will be for Ram Resident students and requires admission to the Teacher Education Program (TEP) and the Ram Resident program prior to enrolling for the courses.

College of Science and Engineering

Dean: Dr. Paul K. Swets
Office: Vincent Building, Room 175
Telephone: 325-942-2470
E-Mail: CSE@angelo.edu

The College of Science and Engineering offers a range of degree programs and courses in mathematics, computer science, agriculture, and natural sciences. The distinctive, learning-centered environment in the college places students in a community of scholars, where teaching, research, and creative endeavor combine to create a rich educational experience. In this spirit, although the college faculty demonstrate significant achievement in the areas of scholarship, creative endeavor, community engagement, and professional service, teaching is their highest calling.

The courses and programs in the college provide students with the knowledge, skills, and habits of mind to become responsible and productive citizens and leaders. They also provide a solid basis from which students may enter professional fields such as law and medicine.

Departments and Programs

Students in the College of Science and Engineering may pursue studies in the following departments.

Department of Agriculture

Programs of Study in Agriculture

- B.S. Agribusiness
- B.S. Agricultural Science and Leadership
- B.S. Agricultural Science and Leadership, Teacher Certification
- B.S. Agriculture Science and Communications
- B.S. Animal Science
- B.S. Food Animal Science and Marketing
- B.S. Natural Resource Management
- M.Ag. Agriculture
- M.S. Animal Science
- B.S./M.B.A. Integrated Agribusiness/Business Administration *

Department of Biology

Programs of Study in Biology

- B.S. Biology
- B.S./M.S. Integrated Biology
- B.S. Life Science with Secondary Teacher Certification
- M.S. Biology

Department of Chemistry and Biochemistry

Program of Study in Chemistry

- B.S. Chemistry
- B.S. Chemistry with Specialization Area
  Biochemistry Emphasis

Department of Computer Science

Program of Study in Computer Science

- B.S. Artificial Intelligence
- B.S. Computer Science
- B.S. Cybersecurity
- M.S. Computer Science
- M.S. Artificial Intelligence

David L. Hirschfeld Department of Engineering

Program of Study in Civil Engineering

- B.S.C.E. Civil Engineering
- B.S.M.E. Mechanical Engineering

Department of Mathematics

Programs of Study in Mathematics

- B.A. Mathematics
- B.A. Mathematics with Secondary Teacher Certification
- B.S. Mathematics
- B.S. Mathematics with Secondary Teacher Certification
- B.I.S. Interdisciplinary Studies Mathematics with Secondary Teacher Certification with Specialization Areas
  - Chemistry
  - Computer Science
  - English
  - History
  - Kinesiology
  - Life Science
  - Physics
  - Customized

Department of Physics and Geosciences

Programs of Study in Physics

- B.S. Geoscience
- B.S. Physics

Additional programs

Program of Study in Applied Arts and Sciences (see page 89)

- B.A.A.S. Applied Arts and Sciences with Specialization Area
  - Computer Science

For a complete list of minors see page 187.

* Recipients receive both an undergraduate and graduate degree simultaneously.

College of Science and Engineering:
Department of Agriculture

Department Chair: Cody B. Scott

Faculty: Branham, Cantu, Dickison, Kellermeier, Langdon, Leiva, Meyer, Mohr, Runyan, Salisbury, Scott, Topliff.
Distinguished Professor Emeritus: Engdahl.
Professors Emeritus: Holland, Shelby.

Contact Information: Vincent Building, Room 212
Telephone: 325-942-2027, Fax: 325-942-2183
http://www.angelo.edu/dept/agriculture/

Bachelor of Science (B.S.)
Animal Science

(120 semester hours)

This degree is designed to meet the needs of individual students desiring a program of study in all aspects of the livestock industries including commercial production and management, animal feeding, health, nutrition, reproductive physiology, genetics, range and wildlife and live animal evaluation as well as other areas of the livestock, range, and wildlife industries. In addition, students are involved in ongoing faculty research and livestock production practices that prepare graduates for careers in animal science production and business areas.

Academic Major	Hours
Animal Science 1319, 2341	6
Animal Science 3332, 3342, 3443, 3449, 4181, 4342, 4343, 4344, 4345	27
Agriculture Department electives (advanced)	6

Major Support Courses	
Agricultural Economics 2317	3
Agriculture Department elective: Agriculture Science and Leadership 2300, 2302, 3302, Food Science 1329, Range and Wildlife Management 2321, 2322	3
Animal Science 1309 or Business Computer Information Systems 1305	3
Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109	4
Chemistry 1305/1105 or 1311/1111	4
Food Science 3446	4
General Studies 1181	1
Mathematics 1314, 1324, 1342	3
Range and Wildlife Management 3331, 3332	6

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives	23

B.S. Animal Science (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ASCI 2341	3
HIST 1301	3	COMM 1315	3
ASCI 1319	3	ENGL 1302 or 2311	3
ASCI 1309, BCIS 1305	3	HIST 1302	3
CHEM 1305/1105, 1311/1111	4	MATH 1314, 1324, 1342	3
GS 1181	1	TOTAL	15
TOTAL	17		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	POLS 2306	3
POLS 2305	3	AGEC 2317	3
BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109	4	RWM 3332	3
RWM 3331	3	Creative Arts	3
Agriculture Department elective	3	Elective	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
ASCI 3332	3	ASCI 3342	3
ASCI 3449	4	ASCI 3443	4
Agriculture Department elective (advanced)	3	Agriculture Department elective (advanced)	3
Elective	3	Elective	3
Elective	3	Elective	2
TOTAL	16	TOTAL	15

Fourth Year

Fall		Spring	
ASCI 4181	1	ASCI 4342	3
ASCI 4344	3	ASCI 4343	3
ASCI 4345	3	FSCI 3446	4
Elective	3	Elective	3
Elective	3	TOTAL	13
TOTAL	13		

Bachelor of Science (B.S.)
Agricultural Science and Leadership

(120 semester hours)

Academic Major	Hours
Agriculture Science 2300, 2302, 2310, 3302 3313, 3331, 4304, 4310	24
Animal Science 3320, 3443 or 4344	6-7
Food Science 1329 or 3300	3
Range and Wildlife Management 2322, 4333	6

Major Support Courses

Agricultural Economics 2317	3
Animal Science 1319, 4342 or 4343, and Range and Wildlife Management 3331	9
Biology 1308/1108 or 1309/1109, Chemistry 1305/1105 or 1311/1111	8
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives * (3-6 hours must be advanced) 29-30

Pre-Veterinary Medicine Curriculum

Angelo State University offers a series of courses designed to qualify students for entrance to schools of veterinary medicine. It is the responsibility of the student to make all applications for admittance and to check admission requirements of the school chosen. Before enrolling in the pre-veterinary medicine curriculum, the student should report to the Agriculture Department for advisement. If a student desires to earn a degree before entering a school of veterinary medicine, the student is advised to major in animal science and take a minor in biology and chemistry.

Requirements

Animal Science 3320, 3332, 3342	3
Biology 1306/1106 or 1307/1107, Biology 3411, Biology 3301 or Animal Science 3443	11-12
Chemistry 1311/1111, 1312/1112, 3451, 3452, 4331	19
Communication 1315	3
English 1301, sophomore literature	6
Mathematics 3321	3
Physics 1301/1101, 1302/1102	8

*The department highly recommends 9 SCH of electives chosen from: ASCI 2341, 3449, 4345, RWM 3332, FSCI 1329, AGEC 3330, 4351.

B.S. Agricultural Science and Leadership (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
ASCI 1319	3	AGEC 2317	3
Creative Arts	3	AGSC 2300	3
MATH 1314, 1324, 1342	3	CHEM 1305/1105, 1311/1111	4
GS 1181	1	TOTAL	16
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
AGSC 2302	3	AGSC 3302	3
BIOL 1308/1108 or 1309/1109	4	ASCI 3320	3
RWM 2322	3	Elective	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
AGSC 2310	3	AGSC 3313	3
AGSC 3331	3	ASCI 3443 or 4344	3-4
RWM 3331	3	Elective	3
FSCI 1329 or 3300	3	Elective	3
Elective	3	Elective	2-3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ASCI 4342, 4343	3	AGSC 4304	3
AGSC 4310	3	Elective	3
RWM 4333	3	Elective	3
Elective	3	Elective	3
Elective	3	TOTAL	12
TOTAL	15		

Bachelor of Science (B.S.) Agricultural Science and Leadership Teacher Certification *

(120 semester hours)

Academic Major	Hours
Agriculture Science 2300, 2302, 2310, 3302 3313, 3331, 4304, 4310	24
Animal Science 3320, 3443 or 4344	6-7
Food Science 1329 or 3300	3
Range and Wildlife Management 2322, 4333	6
Major Support Courses	
Agricultural Economics 2317	3
Animal Science 1319, 4342 or 4343, and Range and Wildlife Management 3331	9
Biology 1308/1108 or 1309/1109	4
Chemistry 1305/1105 or 1311/1111	4
Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301,1302	6
Mathematics 1314, 1324, 1342	3
Political Science 2305, 2306	6
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Minor (Professional Education)	
Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3
Education	
Education 4973*	9
Electives	
Electives	2-3

B.S. Agricultural Science and Leadership, Teacher Cert. (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
ASCI 1319	3	AGEC 2317	3
Creative Arts	3	AGSC 2300	3
MATH 1314, 1324, 1342	3	CHEM 1305/1105, 1311/1111	4
GS 1181	1	TOTAL	16
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
POLS 2305	3	POLS 2306	3
AGSC 2302	3	AGSC 3302	3
BIOL 1308/1108 or 1309/1109	4	ASCI 3320	3
RWM 2322	3	EPSY 3314	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
AGSC 2310	3	AGSC 3313	3
AGSC 3331	3	AGSC 4310	3
RWM 3331	3	ASCI 3443 or 4344	3-4
FSCI 1329 or 3300	3	EPSY 3303	3
Elective	2-3	ED 4321	3
TOTAL	14-15	TOTAL	15-16

Fourth Year

Fall		Spring	
ASCI 4342, 4343	3	ED 4973	9
AGSC 4304	3	ED 4323	3
RWM 4333	3	TOTAL	12
RDG 4320	3		
ED 4322	3		
TOTAL	15		

*Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

Bachelor of Science (B.S.)
Agriculture Science and Communications

(120 semester hours)
(Pending THECB aproval)

The agriculture industry faces complex challenges that require both scientific expertise and effective communication skills. A degree in Agriculture Science and Communications will prepare graduates to bridge the gap between scientific research and public understanding.

Academic Major	Hours
Agriculture	
Agricultural Science 2300, 2302, 3331	9
Animal Science 1319, 2341	6
Animal Science 3443, 3449	4
Animal Science 3320	3
Animal Science 4342 or 4343 or 4345	6
Food Science 1329 or 3300	3
Range and Wildlife Management 2321 or 2322	3
Communication and Mass Media	
Communication 1337	3
Communication 2303, 2330	6
Communication 3336, 3337, 3352	9
Communication 4335, 4337	6

Major Support Courses

Agricultural Economics 2317	3
Biology 1306/1106,1307/1107, 1308/1108 or 1309/1109, Chemistry 1305/1105 or 1311/1111, or Geology 1303/1103, or 1304/1104	8
General Studies 1181	1

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 20

B.S. Agriculture Science and Communications (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302	3
HIST 1301	3	HIST 1302	3
ASCI 1319	3	AGEC 2317	3
Creative Arts	3	AGSC 2300	3
MATH 1314, 1324, 1342	3	BIO, CHEM, or GEOL	4
GS 1181	1	TOTAL	16
TOTAL	16		

Second Year

Fall		Spring	
Language, Philosophy, and Culture	3	COMM 1315	3
POLS 2305	3	COMM 1337	3
AGSC 2302	3	COMM 2303	3
RWM 2321 or 2322	3	POLS 2306	3
BIO, CHEM, or GEOL	4	ASCI 2341	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
AGSC 3331	3	ASCI 3320	3
FSCI 1329 or 3300	3	ASCI 3443 or 3449	4
COMM 2330	3	COMM 3337	3
COMM 3336	3	COMM 3352	3
Elective	3	Elective	2
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ASCI 4342, 4343, 4345	3	ASCI 4342, 4343, 4345	3
COMM 4335	3	COMM 4337	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	TOTAL	12
TOTAL	15		

Bachelor of Science (B.S.)
Agribusiness

(120 semester hours)

This degree is designed to meet the needs of individual students desiring a program of study with a strong emphasis in animal science and business. The degree will provide students the knowledge and experience to pursue careers in the continually changing and growing agribusiness industry.

Academic Major	Hours
Agricultural Economics 3330, 3331, 4317, 4335	12
Agricultural Economics 4305, 4306, or 4351 (choose two)	6
Agricultural Economics 4342 or Management 2331	3
Animal Science 1319	3
Animal Science 3320, 4181	4
Animal Science 3443, 3449, 4344 (choose two)	7-8
Animal Science 4342, 4343, 4345 (choose one)	3

Major Support Courses

Agricultural Economics 2317	3
Animal Science 1309 or Business Computer Information Systems 1305	3
Finance 3361	3
Food Science 1329	3
General Studies 1181	1
Mathematics 1314, 1324, 1342	3
Range and Wildlife Management 3331	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor *(Choose one)*

Banking

Accounting 2301, 2302	6
Finance 3361	3
Finance 4324	3
Finance 4371	3
Marketing 3323	3

Business Administration

Accounting 2301, 2302	6
Business 3301	3
Economics 2301	3
Management 3301	3
Marketing 3321	3

Electives

Electives	11-12

B.S. Agribusiness (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ASCI 1319	3	AGEC 3330	3
ASCI 1309, BCIS 1305	3	ECON 2301	3
AGEC 2317	3	POLS 2305	3
MATH 1314, 1324, 1342	3	Creative Arts	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
AGEC 3331	3	AGEC 4342, MGMT 2331	3
RWM 3331	3	FSCI 1329	3
ACCT 2301	3	COMM 1315	3
Language, Philosophy, and Culture	3	ACCT 2302	3
Life and Physical Sciences	3	Life and Physical Sciences	3
Elective	1	Elective	1
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
ASCI 3320	3	ASCI 3443, 3449, 4344	3-4
AGEC 4335	3	AGEC 4317	3
FINC 3361	3	MGMT 3301, FINC 4324	3
HIST 1301	3	HIST 1302	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15-16

Fourth Year

Fall		Spring	
AGEC 4305, 4306, 4351	3	AGEC 4305, 4306, 4351	3
ASCI 3443, 3449, 4344	3-4	ASCI 4342, 4343, 4345	3
ASCI 4181	1	BUSI 3301, FINC 43371	3
MKTG 3321, 3323	3	POLS 2306	3
Elective	3-4	TOTAL	12
TOTAL	13-14		

Bachelor of Science (B.S.)
Master of Business Administration (M.B.A.)
Integrated Agribusiness/Business Administration

(150 semester hours)

Academic Major **Hours**

Accounting 6301 3
Agricultural Economics 3330, 3331, 4317, 4335 12
Agricultural Economics 4305, 4306, or 4351 (choose two) 6
Agricultural Economics 4342 or Management 2331 3
Animal Science 1319 3
Animal Science 3320, 4181 4
Animal Science 3443, 3449, 4344 (choose two) 7-8
Animal Science 4342, 4343, 4345 3
Business 6302 3
Economics 6311 3
Finance 6301 3
Management 6301, 6303, 6311, 6312, 6313 15
Marketing 6301 3

Major Support Courses

Agricultural Economics 2317 3
Animal Science 1309 or
Business Computer Information Systems 1305 3
Finance 3361 3
Food Science 1329 3
General Studies 1181 1
Mathematics 1314, 1324, 1342 3
Range and Wildlife Management 3331 3

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor *(choose one)*

Banking

Accounting 2301, 2302 6
Finance 3361 3
Finance 4324 3
Finance 4371 3
Marketing 3323 3

Business Administration

Accounting 2301, 2302 6
Business 3301 3
Economics 2301 3
Management 3301 3
Marketing 3323 3

Electives

Electives 11-12

Students interested in the Integrated B.S. in Agribusiness/M.B.A. in Business Administration will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. A unique feature of the five-year program is that students will begin taking graduate course work in their senior year. All candidates for this program are required to take the GMAT and be admitted to the Graduate Program before taking any graduate credit hours. The student must maintain a cumulative 3.00 in all undergraduate courses and a cumulative 3.00 in all graduate courses. Another unique feature of this program will be the awarding of the B.S. in Agribusiness and M.B.A in Business Administration degrees simultaneously at the completion of the program. Therefore, a student will not be awarded the B.S. in Agribusiness after completing 120 semester credit hours at the undergraduate level until the completion of the 30 semester credit hours at the graduate level in the M.B.A. in Business Administration. Should a student decide not to finish the M.B.A. portion of the program, then this student would be required to complete all of the course requirements to finish the B.S. in Agribusiness as a separate degree.

Bachelor of Science (B.S.)
Food Animal Science and Marketing

Interdisciplinary Studies
(120 semester hours)

This degree is designed to meet the needs of individual students desiring a program of study in all aspects of Food Animal Science and Marketing.

Interdisciplinary Major	Hours
Agricultural Economics 3330	3
Agricultural Economics 4342 or Management 2331	3
Animal Science 1319, 2341, 3332, 3443, 3449, 4181, 4344	21
Food Science 1329, 3446, 4300, 4344, 4345, 4447	20
Food Science 4391 or Agriculture 4091	3
Marketing 3321, 3322, 3323	9
Agriculture Department electives (advanced)	6

Major Support Courses

Agricultural Economics 2317	3
Animal Science 1309 or Business Computer Information Systems 1305	3
Animal Science 4342, 4343, 4345, or Marketing 3326 (choose two)	6
Biology 1308/1108	4
Chemistry 1305/1105 or 1311/1111	4
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 4

B.S. Food Animal Science and Marketing (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ASCI 1319	3	HIST 1301	3
CHEM 1305/1105, 1311/1111	4	ASCI 1309, BCIS 1305	3
MATH 1314, 1324, 1342	3	FSCI 1329	3
GS 1181	1	BIOL 1308/1108	4
TOTAL	14	TOTAL	16

Second Year

Fall		Spring	
ASCI 2341	3	COMM 1315	3
ASCI 3332	3	AGEC 3330	3
ASCI 3443	4	HIST 1302	3
AGEC 2317	3	ASCI 3449	4
Creative Arts	3	FSCI 4344	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
Language, Philosophy, and Culture	3	FSCI 3446	4
POLS 2305	3	ASCI 4342, 4343	3
FSCI 4345	3	POLS 2306	3
MKTG 3321	3	MKTG 3322	3
Elective	4	Agriculture Department elective (advanced)	3
TOTAL	16	TOTAL	16

Fourth Year

Fall		Spring	
FSCI 4300	3	FSCI 4391, AG 4091	3
ASCI 4344	3	MKTG 3323	3
ASCI 4345, MKTG 3326	3	FSCI 4447	4
ASCI 4181	1	AGEC 4342	3
Agriculture Department elective (advanced)	3	TOTAL	13
TOTAL	13		

Bachelor of Science (B.S.)
Natural Resource Management

Interdisciplinary Studies
(120 semester hours)

This degree is designed to meet the needs of individual students desiring a program of study in all aspects of Natural Resource Management including Range Management, Wildlife Management, and Agronomy.

Interdisciplinary Major — Hours

Animal Science 1319 3
Animal Science 3443, 4181 5
Biology 1307/1107, and 1411 or 1413 8
Biology 4451 4
Biology 3333, 3461, 4301, 4315, 4401, 4402, 4404, 4412 6-8
Geology 1303/1103, 1304/1104 4
Geology 3302, 3371 6
Range and Wildlife Management 2321, 2322 6
Range and Wildlife Management 3331, 3332, 3335, 4331, 4333, 4334, 4336, 4435, 4337 28

Major Support Courses

Agricultural Economics 2317 3
Animal Science 1309 or Business Computer Information Systems 1305 3
Chemistry 1305/1105 or 1311/1111 4
General Studies 1181 1
Mathematics 1314, 1324, 1342 3

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives * 8-9

B.S. Natural Resource Management (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
ASCI 1319	3	HIST 1301, 1302	3
ASCI 1309, BCIS 1305	3	RWM 2321	3
CHEM 1305/1105, 1311/1111	4	AGEC 2317	3
MATH 1314, 1324, 1342	3	Creative Arts	3
GS 1181	1	TOTAL	15
TOTAL	17		

Second Year

Fall		Spring	
COMM 1315	3	RWM 3332	3
BIOL 1307/1107	4	RWM 3335	3
RWM 2322	3	BIOL 1411, 1413	4
RWM 3331	3	HIST 1301, 1302	3
ASCI 3443	4	Language, Philosophy, and Culture	3
TOTAL	17	TOTAL	16

Third Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
GEOL 1303/1103, 1304/1104	4	RWM 4435	4
BIOL (upper level) *	3-4	RWM 4336	3
RWM 4333	3	Elective	2-3
Elective	3	TOTAL	12-13
TOTAL	16-17		

Fourth Year

Fall		Spring	
GEOL 3302	3	GEOL 3371	3
RWM 4331	3	ASCI 4181	1
BIOL 4451	4	BIOL (upper level) *	3-4
RWM 4337	3	RWM 4334	3
TOTAL	13	Elective	3
		TOTAL	13-14

* BIOL 3333, 3461, 4301, 4315, 4401, 4402, 4404, or 4412.

* Students interested in Range Management should select additional Range and Wildlife Management courses for electives.

Students interested in Wildlife Ecology should select additional Biology courses as electives.

Students interested in becoming a game warden should select Criminal Justice courses as electives.

Students should consider acquiring an internship (Agriculture 4091) with a land management agency after completing one half of the required course work.

College of Science and Engineering:
Department of Biology

Department Chair: Nicholas J. Negovetich

Faculty: Abreu, Adkins, Ammerman, Crabill, Dixon, Ebeling, Fohn, Heimann, Jones, Krukonis, Maya-Lastra, Negovetich, Skipper, Strenth, Wilke.
Distinguished Professor Emeritus: Maxwell.
Professor Emeritus: Dowler.

Contact Information: Cavness Science Building, Room 102R
Telephone: 325-942-2189
http://www.angelo.edu/dept/biology/

Bachelor of Science (B.S.)
Biology
(120 semester hours)

Academic Major	Hours
Biology 1306/1106, 1307/1107	8
Biology 1411, 1413, 2323/2123, 2324/2124, 4423	8
Biology 3301, 3403, 4181, 4303, 4451	15
Biology (advanced)	11

Major Support Courses	
Chemistry 1311/1111, 1312/1112 or 2353/2153	8
General Studies 1181	1
Mathematics 1314	3
Mathematics * 1316, 2312, 2413, 2414, 3321	3-4
Science Courses **	8

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives (10 hours must be advanced)	24-25

Minors are optional but recommended.

B.S. Biology (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
BIOL 1306/1106	4	BIOL 1307/1107	4
COMM 1315	3	MATH 1316, 2312, 2413, 2414, 3321	3-4
MATH 1314	3	ENGL 1302 or 2311	3
ENGL 1301	3	Language, Philosophy, and Culture	3
GS 1181	1	Social and Behavioral Sciences	3
TOTAL	14	TOTAL	16-17

Second Year

Fall		Spring	
BIOL Elective	4	BIOL Elective	4
CHEM 1311/1111	4	CHEM 1312/1112 or 2353/2153	4
Science Elective	4	Science Elective	4
HIST 1301	3	HIST 1302	3
TOTAL	15	Elective	2-3
		TOTAL	17-18

Third Year

Fall		Spring	
Biology (advanced)	4	BIOL 3301	3
Biology (advanced)	4	Biology (advanced)	3
POLS 2305	3	POLS 2306	3
Elective (advanced)	3	Creative Arts	3
TOTAL	14	Elective	3
		TOTAL	15

Fourth Year

Fall		Spring	
BIOL 3403	4	BIOL 4181	1
BIOL 4451	4	Elective (advanced)	3
BIOL 4303	3	Elective (advanced)	4
Elective	3	Elective	3
TOTAL	14	Elective	3
		TOTAL	14

*Some graduate programs and health professions schools require one semester of calculus, and all health professions schools require one semester of mathematical statistics (MATH 3321) or biometry (BIOL 4480).

** Science credits must be from Biology, Physics, Geology, Computer Science, Animal Science, or Range and Wildlife Management. Many graduate programs and health professions schools require two semesters of Physics 1301/1101 and 1302/1102.

Integrated Program

Bachelor of Science (B.S.)
Master of Science (M.S.)
Integrated Biology

(150 semester hours)

Students interested in the Integrated B.S./M.S. in Biology will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.S. in Biology and the graduate course requirements are identical to those for the M.S. in Biology. These requirements can be completed in 5 years and the B.S. and M.S. will be awarded simultaneously at the completion of the program.

Application and admission to the integrated B.S./M.S. Program in Biology will occur after 90 hours have been completed (including at least 24 undergraduate hours in Biology with a GPA of 3.00) and will require application to the Graduate College and a meeting with the Graduate Program Advisor. At this time the student will decide between the thesis and non-thesis graduate program.

Should a student decide not to finish the M.S. portion of the program, then this student will be required to complete all of the course requirements for the B.S. in Biology as a separate degree as specified in the Angelo State University Catalog.

Academic Major	Hours
Biology 1306/1106, 1307/1107	8
Biology 1411, 1413, 2323/2123, 2324/2124, 4423	8
Biology 3301, 3403, 4181, 4303, 4451	15
Biology (advanced)	11

Major Support Courses	
Chemistry 1311/1111, 1312/1112 or 2353/2153	8
General Studies 1181	1
Mathematics 1314	3
Mathematics * 1316, 2312, 2413, 2414, 3321	3-4
Science Courses **	8

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives (10 hours must be advanced)	24-25

M.S. Requirements

Option A: Thesis	Hours
Biology 6301, 6302, 6181	8
Biology 6399, 6699	6
Non-biology Electives***	0-6
Biology Electives****	8-16

Option B: Non-Thesis	Hours
Biology 6302, 6181	5
Biology 5480, 6301	3-4
Biology 6391	3
Non-biology Electives***	0-6
Biology Electives****	12-19

*Some graduate programs and health professions schools require one semester of calculus, and all health professions schools require one semester of mathematical statistics (MATH 3321) or biometry (BIOL 4480).

** Science credits must be from Biology, Physics, Geology, Computer Science, Chemistry, Animal Science, or Natural Resource Management. Many graduate programs and health professions schools require two semesters of Physics 1301/1101 and 1302/1102.

*** Non-biology electives must have advisor approval and must be at the graduate level

**** Biology electives are restricted to 5000/6000-level classes. No more than 8 hours of 5000-level classes can be credited to the degree.

Bachelor of Science (B.S.) Biology Major with Life Science Secondary Teacher Certification *

(120 semester hours)

Academic Major **	Hours
Biology 1306/1106, 1307/1107, 1411, 1413	16
Biology 3301, 3403, 4181, 4303, 4451	15
Biology (advanced)	11

Major Support Courses

Chemistry 1311/1111, 2353/2153 ***	8
Chemistry 3331, Physical Science 1315/1115, 1317/1117, Geology 1303/1103, 1304/1104, Physics 1301/1101, 1302/1102	3-4
Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Mathematics 1314	3
Mathematics 1316, 2312, 2413, 2414, 3321	3-4
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4973*	9

Electives

Electives	1-3

Graduation Requirement for the Biology Major and Biology Major with Life-Science Certification

Candidates for the Bachelor of Science in Biology are required to complete a Major Field Test (MFT) in Biology in order to be eligible for graduation. The Testing Center administers the MFT by appointment throughout the year. A student is eligible to take the MFT upon completion of all required biology credits or during the semester immediately prior to graduation (August graduates must take the examination during the spring semester immediately prior to graduation). With written permission from the Chair of the Department of Biology, another national or state examination (i.e. MCAT, DAT, OAT, TExES) may be taken in place of the MFT; however, the student is responsible for examination costs. The exam score has no bearing on GPA, but will be part of the student's record.

*Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

**Must complete all biology courses prior to clinical teaching (student teaching).

***Chemistry requirement may also be satisfied by Chemistry 1311/1111, 1312/1112, 3451, 3452, and 4331. These courses would also satisfy the requirement for a minor.

B.S. Biology, Life Science Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
BIOL 1306/1106	4	BIOL 1307/1107	4
POLS 2305	3	POLS 2306	3
MATH 1314	3	ENGL 1302 or 2311	3
ENGL 1301	3	MATH 1316, 2312, 2413, 2414, 3321	3-4
GS 1181	1	Social and Behavioral Sciences	3
TOTAL	14	TOTAL	16-17

Second Year

Fall		Spring	
BIOL 1411	4	BIOL 1413	4
CHEM 1311/1111	4	CHEM 2353/2153	4
Chemistry, Geology, Physical Science or Physics (see program)	3-4	COMM 1315	3
HIST 1301	3	EPSY 3303	3
Elective	1-3	HIST 1302	3
TOTAL	15-18	TOTAL	17

Third Year

Fall		Spring	
Biology (advanced)	4	BIOL 3301	3
Biology (advanced)	3	BIOL 4181	1
Language, Philosophy, and Culture	3	Biology (advanced)	4
Creative Arts	3	ED 4321	3
RDG 4320	3	EPSY 3314	3
TOTAL	16	TOTAL	14

Fourth Year

Fall		Spring	
BIOL 4451	4	ED 4323	3
BIOL 4303	3	ED 4973	9
BIOL 3403	4	TOTAL	12
ED 4322	3		
TOTAL	14		

Courses required to be eligible for certification in 7-12 Life Science

Any student who wishes to be certified in 7-12 Life Science must complete the following courses:

Biology 1306/1106, 1307/1107, 1411, 1413..... 16
Biology 3301, 3403, 4181, 4303, 4451..... 15
Biology advanced..... 11

Biology Minor: A student who chooses a biology minor must complete Biology 1306/1106 and 1307/1107 and an additional 10 hours of courses. The following biology courses are not eligible for inclusion into the Biology minor: Biology 1308/1108, 1309/1109, and 2406. Students must complete 18 SCH in a single area minor with at least six advanced hours. Students with a major in Chemistry with a Biochemistry Emphasis should follow biology minor requirements for that degree.

Pre-Medical and Pre-Dental Students

(Students planning to apply to medical or dental school)

A student interested in applying for admission to medical (including podiatry, optometry, chiropractic, occupational therapy, or physician's assistant programs) or dental school may major in any undergraduate discipline. Health professional school admission committees do not prefer a particular undergraduate major field or degree, so the student should select a major and degree plan consistent with career interests should medical or dental school plans not materialize. Selecting such an academic major, rather than a major in "Pre-Medicine" or "Pre-Dentistry", will provide the student with all course requirements for health professions school and with an alternative career choice as well.

Many health professions students major in Biology, but majors in all fields are given equal consideration for admission to medical and dental schools. For example, a student wishing to apply to either medical or dental school, may prepare for an alternative career in biology or pursue graduate work in biology by following the biology major/chemistry minor degree plan. Or if the alternative career is teaching at the public school level, then the student should follow any teacher certification degree. However, the student must contact the Chairperson of the Health Professions Advisory Committee as soon as possible to discuss major field selection, and the student must work closely with this advisor to develop an academic program which will satisfy the requirements of both the major field and the professional schools to which the student wants to apply. Information concerning majors and admission requirements of health professions schools is available from this advisor, and regular student conferences with this advisor are essential.

A student may qualify for the Bachelor of Science degree from Angelo State University by satisfactorily completing all of the specified course work for the biology major/chemistry minor degree plan and at least one full year at an accredited American medical, dental, optometry, or podiatry school. That is, the only Angelo State courses for which the one year of health professions would substitute are general elective hours. Before considering this option, the student should consult with both the health professions advisor and with the Dean of Science and Engineering. Final permission to pursue this option must be obtained from the Dean of Science and Engineering.

Pre-Occupational Therapy Students

(Students planning to apply for admission to Occupational Therapy school)

Students interested in applying for admission to occupational therapy school can complete all required preadmission course work as well as participate in suggested professional experiences while attending Angelo State University. Students attending ASU with the intent to fulfill required academic prerequisites for admission may do so without declaring a specific academic major; however, because admission to professional training programs is highly competitive students are urged to select an academic major for an alternative career and work toward fulfillment of the degree requirements in conjunction with meeting the specific requirements of the Occupational Therapy schools. Many allied health professions students major in Biology or Biochemistry, but majors in all fields are given equal consideration for admission to Occupational Therapy schools. Students interested in these careers must meet with the pre-occupational therapy advisor in the Biology Department to receive information pertinent to current program requirements and advising for course selection during the enrollment period prior to each semester. Students must work closely with this advisor to develop an academic program which will satisfy both the requirements of the professional program to which they are seeking admission and those of the chosen academic major. Regular conferences with the advisor are essential.

Pre-Physical Therapy

Physical Therapy is a graduate course of study. All undergraduate advising is done by the department of the student's undergraduate degree. The Physical Therapy faculty cannot advise students on undergraduate matters. The faculty of the Physical Therapy department is available for periodic (one per year is sufficient) counseling during a student's undergraduate studies to keep one abreast of physical therapy prerequisites and admissions policies. Once admitted to the physical therapy course of study, each student will be assigned a permanent faculty advisor for his/her graduate course of study.

College of Science and Engineering:
Department of Chemistry and Biochemistry

Department Chair: Kyle A. Beran

Faculty: Beran, Carr, Dharmarajan, King, J. Maxwell, Osborne, Ramasamy, Smith, Zehnder.
Distinguished Professor Emeritus: Drake.

Contact Information: Cavness Science Building, Room 102B
Telephone: 325-942-2181
http://www.angelo.edu/dept/chemistry/

Bachelor of Science (B.S.)
Chemistry
(120 semester hours)

It is recommended that elective courses focus on the following fields of study: biology, computer science, mathematics, or physics.

Academic Major	Hours
Chemistry 1311/1111, 1312/1112	8
Chemistry 3301, 3421, 3451, 3452, 3461, 3462, 4191, 4301, 4331, 4332, 4421	37

Major Support Courses	
Biology 1306/1106	4
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Mathematics 2413 *, 2414	8
Physics 2325/2125, 2326/2126	8

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives	24

B.S. Chemistry (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
CHEM 1311/1111	4	CHEM 1312/1112	4
BIOL 1306/1106	4	MATH 2413	4
GS 1181	1	ENGL 1301	3
Social and Behavioral Sciences	3	Elective	4
Elective	3	TOTAL	15
TOTAL	15		

Second Year

Fall		Spring	
CHEM 3421	4	CHEM 3452	4
CHEM 3451	4	PHYS 2326/2126	4
PHYS 2325/2125	4	ENGL 1302 or 2311	3
MATH 2414	4	Elective	4
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
CHEM 3461	4	CHEM 3462	4
CHEM 4191	1	CHEM 4332	3
CHEM 4331	3	HIST 1302	3
HIST 1301	3	Elective	3
Sophomore Lit (from list)	3	Elective	3
TOTAL	14	TOTAL	16

Fourth Year

Fall		Spring	
CHEM 3301	3	CHEM 4301	3
POLS 2305	3	CHEM 4421	4
Creative Arts	3	POLS 2306	3
Elective	4	COMM 1315	3
TOTAL	13	Elective	3
		TOTAL	16

*Students may be required to take Mathematics 2312 before enrollment in Mathematics 2413. If so, this will reduce the number of elective hours.

Bachelor of Science (B.S.)
Chemistry
(120 semester hours)

Academic Major	Hours
Specialization area with Biochemistry Emphasis	
Chemistry 1311/1111, 1312/1112	8
Chemistry 3301, 3421, 3451, 3452, 3461, 3462, 4191, 4233, 4301, 4331, 4332, 4421	39
Biology (Biochemistry Emphasis) Minor	
Biology 1306/1106, 1307/1107, 3301, 3403	15
Biology (advanced)	3
Major Support Courses	
English 2321, 2322, 2323, 2326, 2329, 2331, 2341	3
General Studies 1181	1
Mathematics 2413 *, 2414	8
Physics 2325/2125, 2326/2126	8
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Electives	
Electives	8

B.S. Chemistry, Biochemistry Emphasis (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
CHEM 1311/1111	4	CHEM 1312/1112	4
BIOL 1306/1106	4	MATH 2413	4
GS 1181	1	BIOL 1307/1107	4
Social and Behavioral Sciences	3	ENGL 1301	3
Elective	3	Elective	2
TOTAL	15	TOTAL	17

Second Year

Fall		Spring	
CHEM 3421	4	CHEM 3452	4
CHEM 3451	4	PHYS 2326/2126	4
PHYS 2325/2125	4	BIOL 3301	3
MATH 2414	4	ENGL 1302 or 2311	3
TOTAL	16	TOTAL	14

Third Year

Fall		Spring	
CHEM 4191	1	CHEM 4233	2
CHEM 4331	3	CHEM 4332	3
BIOL 3403	4	CHEM 4421	4
HIST 1301	3	HIST 1302	3
Creative Arts	3	Sophomore Lit (from list)	3
TOTAL	14	TOTAL	15

Fourth Year

Fall		Spring	
CHEM 3461	4	CHEM 3462	4
CHEM 3301	3	CHEM 4301	3
BIOL (advanced)	3	POLS 2306	3
POLS 2305	3	COMM 1315	3
TOTAL	13	Elective	3
		TOTAL	16

Graduation Requirement for the Chemistry Major

Candidates for the Bachelor of Science in Chemistry are required to complete a Major Field Test (MFT) in Chemistry in order to be eligible for graduation. The Testing Center administers the MFT by appointment throughout the year. A student is eligible to take the MFT upon completion of all required chemistry credits or during the semester immediately prior to graduation. The exam score will be part of the student's record. For testing policies, fees and/or scheduling an exam, visit the Testing Center website.

Pre-Medical and Pre-Dental Students
(Students planning to apply to medical or dental school)

A student interested in applying for admission to medical or dental school may major in any undergraduate discipline. Health professional school admission committees do not have a preference about an undergraduate major field or degree, so the student should select a major and degree plan consistent with career interests should medical or dental school degree plans not materialize. Selecting such a major, rather than a major in "Pre-Medicine" or "Pre-Dentistry", will provide the student with all course requirements for health professions school with an optional or alternative career choice as well.

Many health professions students major in Chemistry but majors in all fields are given equal consideration for admission to medical and dental schools. Students may pursue career options of medical technology in nursing by following the nursing degree program. However, the student must contact the Chairperson of the Health Professions Advisory Committee as soon as possible to discuss major field selection, and the student must work closely with this advisor to develop an academic program which will satisfy the requirements of both the major field and the professional schools to which the student wants to apply. Information concerning majors and admission requirements of health professions schools is available from this advisor, and regular student conferences with this advisor are essential.

Pre-Pharmacy

Angelo State University offers courses which satisfy requirements for the first two years of most five- or six-year professional pharmacy programs as outlined by the various schools of pharmacy. However, the requirements of the different schools of pharmacy vary so widely that it is imperative that requirements of the school to which the student will seek admission be followed closely. To that purpose, the student should seek counsel from the Pre-Pharmacy Advisor in the Department of Chemistry and Biochemistry before enrollment.

*Students may be required to take Mathematics 2312 before enrollment in Mathematics 2413. If so, this will reduce the number of elective hours.

College of Science and Engineering:
Department of Computer Science

Department Chair: Erdoğan Doğdu

Faculty: Choupani, Doğdu, Hossain, Krishnan, Motl.

Contact Information: Mathematics-Computer Science Building, Room 205; Telephone: 325-942-2101, Fax: 325-942-2213
http://www.angelo.edu/dept/computer_science/

Bachelor of Science (B.S.) Computer Science

(120 semester hours)

Academic Major	Hours
Computer Science 1336, 1337, 2336, 3304, 3311, 3312, 3352, 4302, 4306, 4318, 4399	33
Computer Science 3313, 3371, 3372, 4301, 4307, 4312, 4371	12

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, 2323/2123, 2324/2124, Geology 1301/1101, 1303/1103, 1304/1104, Health Science Professions 2301/2101, 2302/2102, Chemistry, Physical Science, or Physics	11
English 2311	3
General Studies 1181	1
Mathematics 1314, 1316, 2413	3-4
Mathematics 2305, 2312	6
Physics 3344	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	20-21

Graduation Requirement for the Computer Science Major

Candidates for the Bachelor of Science in Computer Science are required to complete a Major Field Test (MFT) in computer science in order to be eligible for graduation. The Testing Center administers the MFT each semester. A student is eligible to take the MFT upon completion of all required computer science credits or during the semester immediately prior to graduation. The exam score has no bearing on GPA, but will be part of the student's record.

B.S. Computer Science (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
CS 1336	3	CS 1337	3
Science + Lab	4	Science + Lab	4
ENGL 1301	3	ENGL 2311	3
MATH 1314, 1316, 2413	3-4	MATH 2312	3
GS 1181	1	Elective	3
TOTAL	14-15	TOTAL	16

Second Year

Fall		Spring	
CS 2336	3	CS 3304	3
Science	3	CS 3352	3
HIST 1301	3	HIST 1302	3
MATH 2305	3	Creative Arts	3
COMM 1315	3	Language, Philosophy, and Culture	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
CS 3311	3	CS 3312	3
CS 4318	3	CS 4302	3
POLS 2305	3	PHYS 3344	3
Computer Science (advanced)	3	POLS 2306	3
Elective	3	Computer Science (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
CS 4306	3	CS 4399	3
Computer Science (advanced)	3	Computer Science (advanced)	3
Elective	3	Social and Behavioral Sciences	3
Elective	3	Elective	3
Elective	3	Elective	2-3
TOTAL	15	TOTAL	14-15

Bachelor of Science (B.S.) Artificial Intelligence

(120 semester hours)
(Pending THECB approval)

Academic Major	Hours
Computer Science 1336, 1337, 2336, 3311, 3352	15
Computer Science 4307, 4318, 4399	9

Artificial Intelligence Electives

Computer Science 4319, 4321, 4322, 4325, 4327, 4330, 4333, 4335, 4338, 4339, 4341, 4382	21

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, 2323/2123, 2324/2124, Geology 1301/1101, 1303/1103, 1304/1104, Chemistry, Physical Science, or Physics, Health Science Professions 2301/2101, 2302/2102	11
Physics 3344	3
General Studies 1181	1
English 2311	3
Mathematics 1314, 1316, 2413	3-4
Mathematics 2312	3
Mathematics 2305	3
Mathematics 2350	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	17-18

Graduation Requirement for the Artificial Intelligence Major

Candidates for the Bachelor of Science in Artificial Intelligence are required to complete a Major Field Test (MFT) in computer science in order to be eligible for graduation. The Testing Center administers the MFT each semester. A student is eligible to take the MFT upon completion of all required computer science credits or during the semester immediately prior to graduation. The exam score has no bearing on GPA, but will be part of the student's record.

B.S. Artificial Intelligence (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
CS 1336	3	CS 1337	3
Science + Lab	4	Science + Lab	4
ENGL 1301	3	ENGL 2311	3
MATH 1314, 1316, 2413	3-4	MATH 2312	3
GS 1181	1	Elective	3
TOTAL	14-15	TOTAL	16

Second Year

Fall		Spring	
CS 2336	3	CS 3352	3
Science	3	MATH 2350	3
HIST 1301	3	HIST 1302	3
MATH 2305	3	POLS 2305	3
Elective	3	Language, Philosophy, and Culture	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
CS 3311	3	AI Elective (advanced)	3
CS 4318	3	AI Elective (advanced)	3
COMM 1315	3	PHYS 3344	3
POLS 2306	3	Creative Arts	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
CS 4307	3	CS 4399	3
AI Elective (advanced)	3	AI Elective (advanced)	3
AI Elective (advanced)	3	AI Elective (advanced)	3
AI Elective (advanced)	3	Social and Behavioral Sciences	3
Elective	3	Elective	2-3
TOTAL	15	TOTAL	14-15

Bachelor of Science (B.S.) Cybersecurity

(120 semester hours)

Academic Major **Hours**

Computer Science 1336, 1337, 2336, 3310, 3311, 3352, 4302, 4314, 4320, 4390, 4399 33

Cyber Electives: *

Computer Science 3304, 3312, 3313, 4071, 4303, 4307, 4310, 4340, 4350, 4360, 4370, 4375, 4380, 4389, 4392, Border Security 3307, 3309, 4303 15

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, 2323/2123, 2324/2124, Geology 1301/1101, 1303/1103, 1304/1104, Health Science Professions 2301/2101, 2302/2102 Chemistry, Physical Science, or Physics 11

English 2311 3

General Studies 1181 1

Mathematics 1314, 1316, 2413 3-4

Mathematics 2305, 2312 6

Physics 3344 3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 17-18

Graduation Requirement for the Cybersecurity Major

Candidates for the Bachelor of Science in Cybersecurity are required to complete a Major Field Test (MFT) in computer science in order to be eligible for graduation. The Testing Center administers the MFT each semester. A student is eligible to take the MFT upon completion of all required computer science credits or during the semester immediately prior to graduation. The exam score has no bearing on GPA, but will be part of the student's record.

Undergraduate Certificates Available in Computer Science

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any coursework for certificates must be taken in residence.

This certificate is open to any student who completes the required courses:

Certificate - Computer Game Development (12 SCH required)

CS 3371 Computer Game Development I 3
CS 3372 Handheld Game Development 3
CS 4318 Artificial Intelligence 3
CS 4371 Computer Game Development II 3

* No more than 3 hours of the specified Border Security courses are allowed to count towards the 15 hours of Cyber Electives; however, additional Border Security courses may be taken to satisfy the required 17-18 hours of electives.

B.S. Cybersecurity (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
CS 1336	3	CS 1337	3
Science + Lab	4	Science + Lab	4
ENGL 1301	3	ENGL 2311	3
MATH 1314, 1316, 2413	3-4	MATH 2312	3
GS 1181	1	Elective	3
TOTAL	14-15	TOTAL	16

Second Year

Fall		Spring	
CS 2336	3	CS 3352	3
CS 3310	3	CS 4314	3
Science	3	COMM 1315	3
HIST 1301	3	HIST 1302	3
MATH 2305	3	Creative Arts	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
CS 3311	3	CS 4302	3
CS 4320	3	PHYS 3344	3
Cyber Elective (advanced)	3	POLS 2306	3
Language, Philosophy, and Culture	3	Cyber Elective (advanced)	3
POLS 2305	3	Cyber Elective (advanced)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
CS 4390	3	CS 4399	3
Cyber Elective (advanced)	3	Cyber Elective (advanced)	3
Elective	3	Social and Behavioral Sciences	3
Elective	3	Elective	3
Elective	3	Elective	2-3
TOTAL	15	TOTAL	14-15

Certificate - Cybersecurity Technologies (12 SCH required)

CS 3310 Principles of Linux 3
CS 4314 Computer Networks 3
CS 4320 Introduction to Computer and Network Security 3

(Choose 1 of the following courses)

BOR 3307 Introduction to Cybersecurity 3
BOR 3309 Information Security and Protection 3
BOR 4303 Digital Footprints 3
CS 4340 Offensive Security Techniques 3

Certificate – Data Science (12 SCH required)

CS 1314 Introduction to Programming and Problem Solving 3
CS 4318 Artificial Intelligence 3
CS 4319 Machine Learning 3
CS 4330 Introduction to Data Science 3

Certificate - Web and Mobile Development (12 SCH required)

CS 3312 Web Programming 3
CS 3372 Handheld Game Development 3
CS 4312 Internet Technologies 3

(Choose 1 of the following courses)

CS 1314 Introduction to Programming and Problem Solving 3
CS 1351 Java Programming 3

College of Science and Engineering:
David L. Hirschfeld Department of Engineering

Department Chair: TBD

Faculty: Apronti, Battistini, García-Ruiz, Hamidi, Haque, Kitch, Kum, Piñón-Villarreal.

Contact Information: Vincent Building, Room 268
Telephone: 325-942-2483, Fax: 325-942-2484
https://www.angelo.edu/dept/engineering/

The David L. Hirschfeld Department of Engineering offers a program grounded in mathematics and basic sciences, which applies engineering fundamentals to the solutions to today's complex problems. These engineering fundamentals are supported by the strong humanities, arts, and social sciences programs of the University. This broad education leads to graduates who are practice-ready engineers with the broader skills to become leaders in their communities.

Vision

This diverse family of students, staff, and faculty is professionally and culturally engaged with our regional community. We will be recognized as one of the premier undergraduate engineering programs in Texas, cultivating practice-ready engineers with the broader skills to be future leaders.

Mission

- Employ effective learning-centered teaching that incorporates the changing paradigm of engineering education.
- Maintain a theoretically-grounded, practice-focused curriculum, which integrates global issues and sustainable concepts in engineering design.
- Engage our regional community to enhance science, technology, engineering, and mathematics (STEM) opportunities.
- Provide faculty and students opportunities for interdisciplinary scholarly work.
- Support and celebrate students' unique interests and creativity.

Program Educational Objectives

The undergraduate engineering programs at Angelo State University strives to prepare practice-ready engineers who:

- Respond to the needs of society by integrating effective communication, ethical responsibility, social awareness, and analytical reasoning in engineering design.
- Demonstrate superior engineering competency by creating safe, equitable, sustainable, and economical solutions to complex problems.
- Act as agents who broaden the diversity of the profession through effective teamwork, negotiation, mentorship, and leadership.
- Pursue professional registration and improve their professional competencies through life-long reflective learning.

Student Outcomes

Skills our graduates have upon graduation:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics;
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors;
3. an ability to communicate effectively with a range of audiences;
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts;
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions;
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The department offers a bachelor of science in civil engineering (B.S.C.E.) and a bachelor of science in mechanical engineering (B.S.M.E.). The B.S.C.E. program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Civil and Similarly Named Engineering Programs Criteria. The B.S.M.E. program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Mechanical and Similarly Named Engineering Programs Criteria. All students wishing to pursue a B.S.C.E. or B.S.M.E. degree begin in the Engineering Fundamentals program which provides the foundation for upper-division engineering courses. Students advance from the Engineering Fundamentals program to the Civil Engineering or Mechanical Engineering program by completing the fundamentals courses, meeting the specified GPA requirements, and passing the B.S.C.E./B.S.M.E. advancement exam.

To be admitted to the Engineering Fundamentals program, students must meet ASU's admissions standards as outlined in this Catalog and be eligible to enroll in Precalculus (MATH 2312) by either having credit for College Algebra (MATH 1314) or earned a satisfactory score on the mathematics placement exam. Students who meet ASU's admissions standards but do not meet the mathematics requirements to enter the Engineering Fundamentals program may be admitted to the Pre-Engineering program. The Pre-Engineering program is designed to help students develop the skills needed for the Engineering Fundamentals program.

Civil Engineering

Bachelor of Science in Civil Engineering (B.S.C.E.)
Civil Engineering

(127 semester hours)

Academic Major **Hours**

Engineering Principles:
Engineering 1201, 1304, 2301, 2302, 2318, 2332, 3305, 3331, 3404, 4201 29
Engineering 1307, 1308 3
Required Introductory Civil Engineering Discipline Courses:
Civil Engineering 3311, 3341, 3351, 3352, 3361 15
Engineering/Math/Science Elective:
Civil Engineering 3332, 3353, 3362, Mathematics 4311, 4335, 4361, Physics 3340, 3344, 3361, 4300 3
Programming Elective:
Engineering 2304, Computer Science 1314, 1336 3
Design Electives:
Civil Engineering 4311, 4341, 4351, 4362, 4363, 4366, Engineering 4364 6
Technical Elective
Civil Engineering 4352, Engineering 4367, or any of the courses listed above as design electives 3
Capstone Design:
Civil Engineering 4380 3

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, Geology 1303/1103, or (with department permission) other core science class outside of chemistry and physics 4
Chemistry 1311/1111 4
General Studies 1181 1
Mathematics 2413, 2414, 3324, 3415 15
Physics 2325/2125, 2326/2126 8

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

B.S.C.E. Civil Engineering (127 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGR 1201	2	ENGR 1304	3
ENGL 1301	3	ENGL 1302 or 2311	3
GS 1181	1	MATH 2414	4
MATH 2413	4	PHYS 2325/2125	4
CHEM 1311/1111	4	HIST 1301	3
TOTAL	14	TOTAL	17

Second Year

Fall		Spring	
ENGR 1307 or 1308	3	ENGR 2302	3
ENGR 2301	3	ENGR 2318	3
ENGR 2304, CS 1314 or 1336	3	ENGR 2332	3
MATH 3415	4	ENGR 3305	3
PHYS 2326/2126	4	MATH 3324	3
TOTAL	17	HIST 1302	3
		TOTAL	18

Third Year

Fall		Spring	
CENG 3341	3	CENG 3311	3
CENG 3361	3	CENG 3352	3
ENGR 3331	3	COMM 1315	3
ENGR 3404	4	POLS 2305	3
BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109, or GEOL 1303/1103 *	4	Creative Arts	3
TOTAL	17	TOTAL	15

Fourth Year

Fall		Spring	
CENG 3351	3	CENG 4380	3
CENG/MATH/Science Elective (adv)	3	ENGR 4201	2
Design Elective (advanced)	3	Technical Elective (advanced)	3
Language, Philosophy, and Culture	3	Design Elective (advanced)	3
POLS 2306	3	Social and Behavioral Sciences	3
TOTAL	15	TOTAL	14

* Or other core science course outside of chemistry and physics with departmental approval.

Civil Engineering Fundamentals

I. Overall GPA of at least 2.50.
II. Completion of the sequence below with a GPA of at least 2.50:
- Engineering 1201 - Introduction to Engineering
- Engineering 1304 - Engineering Graphics
- Engineering 1307 - Plane Surveying or Engineering 1308 - Introduction to Geomatics
- Engineering 2301* - Engineering Mechanics - Statics
- Engineering 2302* - Engineering Mechanics - Dynamics
- Mathematics 2413* - Calculus I
- Mathematics 2414* - Calculus II
- Physics 2325/2125* - Fundamentals of Physics I
- Physics 2326/2126* - Fundamentals of Physics II

III. Successful completion of the advancement exam.

* A grade of "C" or better is required for these courses.

Mechanical Engineering

Bachelor of Science in Mechanical Engineering (B.S.M.E.)
Mechanical Engineering

(127 semester hours)

Academic Major — Hours

Engineering Principles:
Engineering 1201, 1304, 2301, 2302, 2305, 2318, 2332, 3305, 3331, 3404, 4201 32
Required Introductory Mechanical Engineering Discipline Courses:
Mechanical Engineering 2311, 3351, 3411, 3441 14
Introductory Mechanical Engineering Elective:
Mechanical Engineering 3352, 3353 3
Math/Science Elective:
Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, Geology 1303/1103, Mathematics 3307, 3321, 4311, 4335 3
Programming Elective:
Engineering 2304, Computer Science 1314, 1336 3
Design Electives:
Mechanical Engineering 4311, 4331, 4341, 4351 or Engineering 4364 6
Technical Elective
Mechanical Engineering 4352, 4361, 4367, or Engineering 4367, or any of the courses listed above as design electives 3
Capstone Design:
Mechanical Engineering 4279, 4380 5

Major Support Courses

Chemistry 1311/1111 4
General Studies 1181 1
Mathematics 2413, 2414, 3324, 3415 15
Physics 2325/2125, 2326/2126 8

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Mechanical Engineering Fundamentals

I. Overall GPA of at least 2.50.
II. Completion of the sequence below with a GPA of at least 2.50:
- Engineering 1201 - Introduction to Engineering
- Engineering 1304 - Engineering Graphics
- Engineering 2301* - Engineering Mechanics - Statics
- Engineering 2302* - Engineering Mechanics - Dynamics
- Engineering 2305 - Electrical Circuits
- Mathematics 2413* - Calculus I
- Mathematics 2414* - Calculus II
- Physics 2325/2125* - Fundamentals of Physics I
- Physics 2326/2126* - Fundamentals of Physics II

III. Successful completion of the advancement exam.

B.S.M.E. Mechanical Engineering (127 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGR 1201	2	ENGR 1304	3
ENGL 1301	3	COMM 1315	3
MATH 2413	4	ENGL 1302 or 2311	3
CHEM 1311/1111	4	MATH 2414	4
GS 1181	1	PHYS 2325/2125	4
TOTAL	14	TOTAL	17

Second Year

Fall		Spring	
ENGR 2301	3	ENGR 2302	3
ENGR 2304, CS 1314 or 1336	3	ENGR 2305	3
MATH 3415	4	ENGR 2318	3
PHYS 2326/2126	4	ENGR 2332	3
Creative Arts	3	MATH 3324	3
TOTAL	17	TOTAL	15

Third Year

Fall		Spring	
ENGR 3305	3	MENG 3351	3
ENGR 3331	3	MENG 3411	4
ENGR 3404	4	MENG elective	3
MENG 2311	3	POLS 2305	3
MENG 3441	4	HIST 1301	3
TOTAL	17	TOTAL	16

Fourth Year

Fall		Spring	
MENG 4279	2	ENGR 4201	2
MENG Design elective	3	MENG 4380	3
MENG Design elective	3	MENG Technical elective	3
POLS 2306	3	HIST 1302	3
Mathematics/Science elective	3	Language, Philosophy, and Culture	3
TOTAL	14	Social and Behavioral Sciences	3
		TOTAL	17

* A grade of "C" or better is required for these courses.

College of Science and Engineering:
Department of Mathematics

Department Chair: Karl J. Havlak

Faculty: Abernathy, D. Bailey, Barrientos, Carriger, Fuchs, Hall, Havlak, Hoover, Huckaby, Jaynes, Koca, Montemayor, Pfeil, Siefker, T. Smith, Swets, Taylor, Whitaker.
Distinguished Professor Emeritus: J. Bailey.

Contact Information: Mathematics-Computer Science Building, Rm 220
Telephone: 325-942-2111, Fax: 325-942-2503
http://www.angelo.edu/dept/mathematics/

A prospective mathematics major should enter the University with a minimum of two full years of high school algebra, one full year of high school geometry, and one full year of precalculus.

Bachelor of Arts (B.A.) Mathematics

(120 semester hours)

Academic Major	Hours
Mathematics 1316, 2305, 2312, 2413, 2414, 3300, 3301, 3415	27
Mathematics 4301, 4331, 4351	3
Mathematics 3305, 3307, 3335, 4301, 4311, 4321, 4331, 4335, 4351, 4355, 4361	12
Mathematics 4181 (twice)	2

Major Support Courses	
General Studies 1181	1
Computer Science 1314, 1315, 1336, 1351	3
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 2311, 2312 in a single modern language	6

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives (9 hours must be advanced)	27

B.A. Mathematics (120 hours)
Sample Four-Year Curriculum

First Year

Fall		Spring	
MATH 1316	3	ENGL 1302 or 2311	3
MATH 2312	3	MATH 2305	3
ENGL 1301	3	MATH 2413	4
COMM 1315	3	HIST 1302	3
HIST 1301	3	Elective	3
GS 1181	1	TOTAL	16
TOTAL	16		

Second Year

Fall		Spring	
MATH 2414	4	MATH 3300	3
CS 1314, 1315,1336, 1351	3	MATH 3415	4
Creative Arts	3	Humanities	3
Social and Behavioral Sciences	3	Language, Philosophy, and Culture	3
POLS 2305	3	POLS 2306	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
MATH 3301	3	MATH 4301, 4331, 4351	3
Modern Language 2311	3	Mathematics (advanced)	3
Elective	9	Modern Language 2312	3
TOTAL	15	Elective	3
		Elective (advanced)	3
		TOTAL	15

Fourth Year

Fall		Spring	
Mathematics (advanced)	3	Mathematics (advanced)	3
MATH 4181	1	Mathematics (advanced)	3
Elective	3	MATH 4181	1
Elective (advanced)	3	Elective (advanced)	3
Life and Physical Sciences	3	Life and Physical Sciences	3
TOTAL	13	TOTAL	13

Bachelor of Arts (B.A.) Mathematics Major with Secondary Teacher Certification *

(120 semester hours)

Academic Major	Hours
Mathematics 1316, 2305, 2312, 2413, 2414	17
Mathematics 3300, 3301, 3307, 3310, 3415, 4321, 4322	22
Mathematics 4301, 4331, or 4351	3
Mathematics 4171, 4181	2

Major Support Courses

Communication 1315	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Humanities: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306	3
Modern Language 2311, 2312 in a single modern language	6
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4973*	9

Electives

Electives	3

Minimum course requirements for Secondary Certification in Mathematics. Mathematics 1316, 2305, 2312, 2413, 3301, 3307 or 3321, 3310, 4321, 4322.

B.A. Mathematics, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
MATH 1316	3	ENGL 1302 or 2311	3
MATH 2312	3	MATH 2305	3
ENGL 1301	3	MATH 2413	4
Social and Behavioral Sciences	3	COMM 1315	3
HIST 1301	3	HIST 1302	3
GS 1181	1	TOTAL	16
TOTAL	16		

Second Year

Fall		Spring	
MATH 2414	4	MATH 3300	3
MATH 3301	3	MATH 3415	4
Life and Physical Sciences	3	Life and Physical Sciences	3
POLS 2305	3	POLS 2306	3
TOTAL	13	Elective	3
		TOTAL	16

Third Year

Fall		Spring	
MATH 3307	3	MATH 3310	3
MATH 4171	1	MATH 4181	1
MATH 4321	3	MATH 4301, 4331, 4351	3
Modern Language 2311	3	Modern Language 2312	3
EPSY 3303	3	ED 4321	3
Humanities	3	EPSY 3314	3
TOTAL	16	TOTAL	16

Fourth Year

Fall		Spring	
MATH 4322	3	ED 4973	9
ED 4322	3	ED 4323	3
RDG 4320	3	TOTAL	12
Creative Arts	3		
Language, Philosophy, and Culture	3		
TOTAL	15		

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

Bachelor of Science (B.S.)
Mathematics Major

(120 semester hours)

Academic Major — Hours

Mathematics 1316, 2305, 2312, 2413, 2414, 3300, 3301, 3415 27
Mathematics 4301, 4331, 4351 3
Mathematics 3305, 3307, 3335, 4301, 4311, 4321, 4331, 4335, 4351, 4355, 4361 12
Mathematics 4181 (twice) 2

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, Geology 1301/1101, 1303/1103, 1304/1104, Health Science Professions 2301/2101, 2302/2102, Physics 2325/2125, 2326/2126, Chemistry 1311/1111, 1312/1112, (must include two sections of lab and at least two disciplines) 14
Computer Science 1314, 1315, 1336, 1351 3
English 3351 3
General Studies 1181 1

Core Curriculum

See page 182 for a listing of core curriculum 42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives (6 hours must be advanced) 25

B.S. Mathematics (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
MATH 1316	3	MATH 2305	3
MATH 2312	3	MATH 2413	4
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
COMM 1315	3	Creative Arts	3
GS 1181	1	TOTAL	16
TOTAL	16		

Second Year

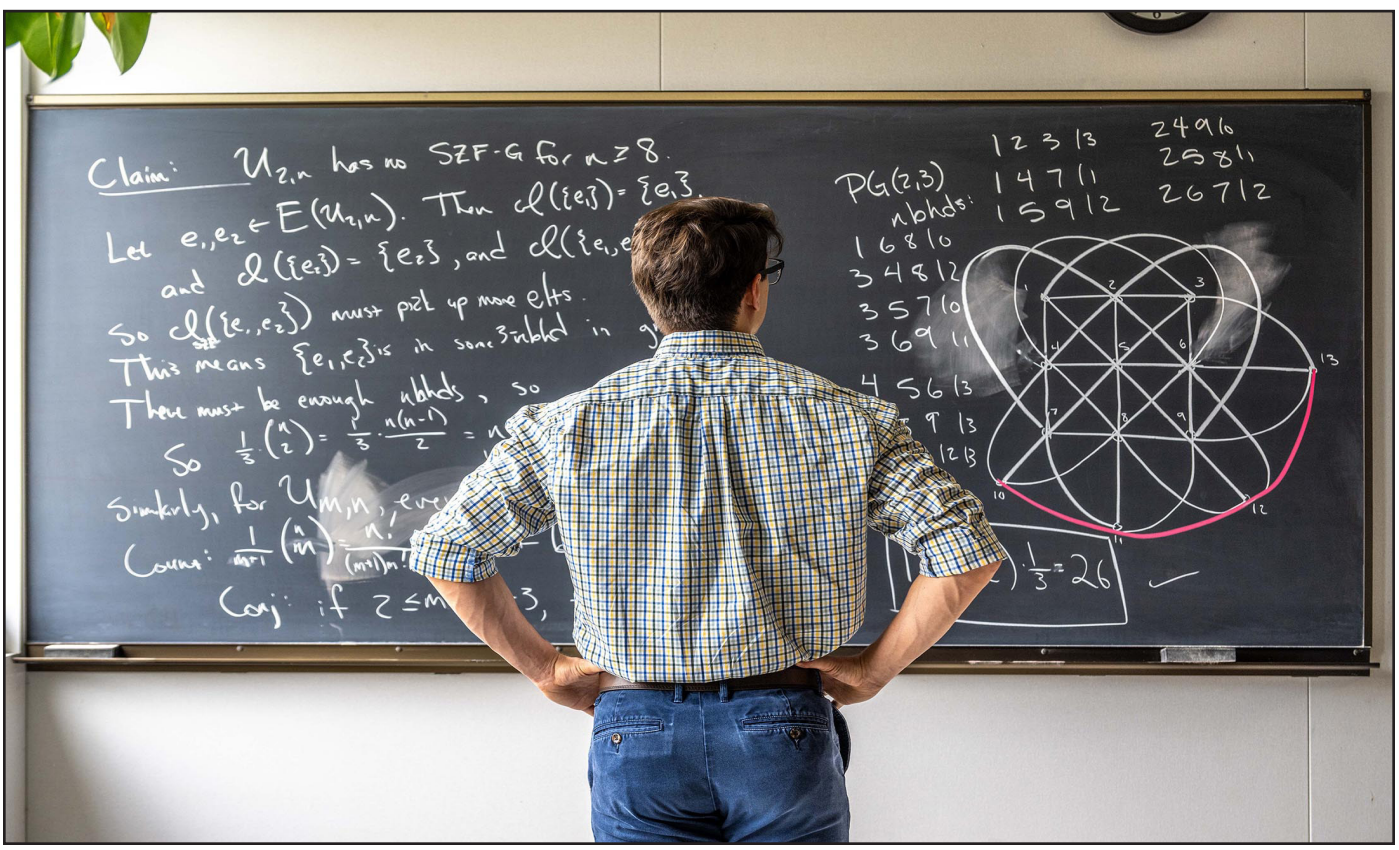
Fall		Spring	
MATH 2414	4	MATH 3300	3
POLS 2305	3	MATH 3415	4
CS 1314, 1315, 1336, 1351	3	Life and Physical Sciences + Lab	4
Language, Philosophy, and Culture	3	POLS 2306	3
Science (from list)	3	TOTAL	14
TOTAL	16		

Third Year

Fall		Spring	
MATH 3301	3	MATH 4301, 4331, 4351	3
Mathematics (advanced)	3	Mathematics (advanced)	3
Life and Physical Sciences + Lab	4	Science (from list)	3
Social and Behavioral Science	3	Elective	6
Elective	3	TOTAL	15
TOTAL	16		

Fourth Year

Fall		Spring	
Mathematics (advanced)	3	Mathematics (advanced)	3
MATH 4181	1	MATH 4181	1
ENGL 3351	3	Elective	7
Elective (advanced)	3	Elective (advanced)	3
Elective	3	TOTAL	14
TOTAL	13		



Bachelor of Science (B.S.) Mathematics Major with Secondary Teacher Certification *

(120 semester hours)

Academic Major	Hours
Mathematics 1316, 2305, 2312, 2413, 2414	17
Mathematics 3300, 3301, 3307, 3310, 3415, 4321, 4322	22
Mathematics 4171, 4181	2
Mathematics 4301, 4331, or 4351	3

Major Support Courses

Biology 1306/1106, 1307/1107, 1308/1108, 1309/1109, Geology 1301/1101, 1303/1103, 1304/1104, Health Science Professions 2301/2101, 2302/2102, Physics 2325/2125, 2326/2126, Chemistry 1311/1111, 1312/1112, (must include two sections of lab and at least two disciplines)	14
Communication 1315	3
Computer Science 1314, 1315, 1336, 1351	3
English 1301, 1302 or 2311	6
General Studies 1181	1
History 1301, 1302	6
Political Science 2305, 2306	6

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Minor (Professional Education)

Education 4321*, 4322*, 4323*	9
Educational Psychology 3303, 3314	6
Reading 4320*	3

Education

Education 4973*	9

Electives

Electives	1

Minimum course requirements for Secondary Certification in Mathematics. Mathematics 1316, 2305, 2312, 2413, 3301, 3307 or 3321, 3310, 4321, 4322.

B.S. Mathematics, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
MATH 1316	3	MATH 2305	3
MATH 2312	3	MATH 2413	4
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	COMM 1315	3
GS 1181	1	HIST 1302	3
Creative Arts	3	TOTAL	16
TOTAL	16		

Second Year

Fall		Spring	
MATH 2414	4	MATH 3300	3
MATH 3301	3	MATH 3415	4
POLS 2305	3	POLS 2306	3
Science (from list)	3	Science (from list)	3
Language, Philosophy, and Culture	3	Social and Behavioral Sciences	3
TOTAL	16	TOTAL	16

Third Year

Fall		Spring	
MATH 3307	3	MATH 3310	3
MATH 4171	1	MATH 4301, 4331, 4351	3
MATH 4181	1	ED 4321	3
MATH 4321	3	EPSY 3314	3
CS 1314, 1315, 1336, 1351	3	Life and Physical Sciences + Lab	4
EPSY 3303	3	TOTAL	16
TOTAL	14		

Fourth Year

Fall		Spring	
MATH 4322	3	ED 4973	9
ED 4322	3	ED 4323	3
RDG 4320	3	TOTAL	12
Life and Physical Sciences + Lab	4		
Elective	1		
TOTAL	14		

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

Bachelor of Interdisciplinary Studies (B.I.S.) Interdisciplinary Studies Mathematics with Secondary Teacher Certification *

(120 semester hours)

Major **Hours**

Mathematics
- Mathematics 1316, 2305, 2312, 2413 13
- Mathematics 3301, 3310, 3321, 4171, 4181, 4321, 4322 17

Specialization Area 18-24

Major Support Courses

Communication 1315 3
English 1301, 1302 or 2311 6
General Studies 1181 1
History 1301, 1302 6
Political Science 2305, 2306 6

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Education

Education 4321*, 4322*, 4323* 9
Education 4973* 9
Educational Psychology 3303, 3314 6
Reading 4320* 3

Electives

Electives (electives vary with choice of specialization area)..0-8

Specialization Areas

Specialization area in Chemistry

Chemistry 1311/1111, 1312/1112 8
Chemistry 3421, 3451, 3452 12

Specialization area in Computer Science

Computer Science 1336, 1337, 2336 9
Computer Science 3304 3
Computer Science 1315, 1351, and any advanced Computer Science (at least 3 advanced hours) 6

Specialization area in English

English 2321, 2322, 2323, 2326, 2329, 2331, 2341 6
English 3317, 3318, 3319 3
English 3301, 3309, 3311, 3312, 3313, 3315 3
English 4321, 4322 6

Specialization area in History

History 1301, 1302 6
History 2311, 2312 6
History 3301, 4370 6
History (advanced) 3

Specialization area in Kinesiology

Kinesiology 1301, 1304, 2356 9
Kinesiology 3333, 3352, 4343, 4356 9

Specialization area in Life Science **

Biology 1306/1106, 1307/1107 8
Biology 1411, 1413, 2323/2123, 2324/2124 8
Biology 3301, 3403, 4303, 4451, any approved advanced 3 or 4 hour Biology 6-8

Specialization area in Physics **

Mathematics 2414 4
Physics 1303/1103 or 1304/1104 4
Physics 2325/2125 and 2326/2126 8
Physics 3361 3
Physics 3344 3

Specialization area in Spanish

Spanish 1301, 1302, 2311, 2312 12
Spanish 3301, 3302 6

Customized Specialization area

Minimum of 18 hours with at least 6 advanced hours (must be approved by departmental academic advisor).

B.I.S. Mathematics, Secondary Teacher Certification (120 hours)

Sample Four-Year Curriculum

(This plan incorporates an 18 hour specialization area.)

First Year

Fall		Spring	
MATH 2312	3	MATH 1316	3
COMM 1315	3	MATH 2305	3
ENGL 1301	3	ENGL 1302 or 2311	3
HIST 1301	3	HIST 1302	3
Creative Arts	3	Social and Behavioral Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
MATH 2413	4	MATH 3301	3
POLS 2305	3	POLS 2306	3
Specialization Area	3	Specialization Area	3
Language, Philosophy, and Culture	3	Life and Physical Sciences	3
Elective/Specialization Area	3	Elective/Specialization Area	3
TOTAL	16	TOTAL	15

Third Year

Fall		Spring	
MATH 3321	3	MATH 3310	3
MATH 4321	3	MATH 4181	1
EPSY 3303	3	ED 4321	3
Specialization Area	3	EPSY 3314	3
Life and Physical Sciences	3	Specialization Area	3
TOTAL	15	Specialization Area (advanced)	3
		TOTAL	16

Fourth Year

Fall		Spring	
MATH 4322	3	ED 4973	9
MATH 4171	1	ED 4323	3
ED 4322	3	TOTAL	12
RDG 4320	3		
Specialization Area (advanced)	3		
Elective/Specialization Area	2		
TOTAL	15		

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320. For more information see page 158 or visit the College of Education website.

** Students that choose the Mathematics and Life Science Education or the Mathematics and Physics Education combinations in the Interdisciplinary Major may exceed 120 hours.

Undergraduate Certificates Available in Mathematics

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of all course work for certificates must be taken in residence.

Certificate - Abstract Mathematics
(12 SCH required. Choose 4 of the following courses.)

MATH 3300 Introduction to Abstract Mathematics 3
MATH 4091 Research (with approval) 3
MATH 4301 Abstract Algebra..... 3
MATH 4331 Analysis..... 3
MATH 4351 Topology..... 3
MATH 4355 Topics in Abstract Mathematics..... 3
MATH 4361 Complex Variables 3

Certificate - Applied Mathematics
(12 SCH required. Choose 4 of the following courses.)

MATH 3301 Linear Algebra 3
MATH 3335 Differential Equations 3
MATH 4091 Research (with approval) 3
MATH 4311 Numerical Analysis..... 3
MATH 4335 Partial Differential Equations..... 3
MATH 4361 Complex Variables 3

Certificate - Applied Statistics
(12 SCH required.)

(Choose 2 of the following courses.)

MATH 1342 Elementary Statistics..... 3
MATH 3307 Probability and Statistics..... 3
MATH 3321 Statistics..... 3
MATH 4091 Research (with approval) 3

(Choose 2 of the following courses.)

MGMT 2331 Applied Business Statistics..... 3
MGMT 3332 Data Analytics..... 3
MGMT 3361 Project Management..... 3

Developmental Program in Mathematics

Texas Success Initiative (TSI) Requirements. A student who fails to meet the minimum passing standard on the mathematics section of the TSIA must complete an appropriate developmental option determined by the Department of Mathematics. TSI requirements may be satisfied by one of the options specified under Developmental Education page 161.

Non-course-based Option. Certain students as determined by the Department of Mathematics may be eligible to participate in non-course-based activities to complete TSI requirements. Contact the department for information about this option.

Course-based Option. Specially designated sections of freshman mathematics courses ("T-sections," whose section number begins with a "T") are designed to provide additional support for students who are not TSI complete. Students who are required to participate in developmental activities must enroll in these sections, which are identified by section numbers T10, T20, etc.

The "T-sections" meet for six hours weekly, however, "T-sections" only count three hours toward a student's bill, course load, and GPA. A passing grade in mathematics "T-section" will both complete the student's TSI requirements in mathematics and also earn the student credit for the appropriate college-level mathematics course. Students should choose the appropriate course in conjunction with their academic advisor to align with their degree programs.

130C Developmental Mathematics (3-0). An introductory course designed to remediate identified deficiencies and provide a review of fundamental operations in mathematics based on the student's mastery of the College and Career Readiness Standards. Topics may include elementary algebra and functions; intermediate algebra and functions; geometry and measurement; and data analysis, statistics, and probability. Software will be used to customize the course to fit individual students' needs.

College of Science and Engineering:
Department of Physics and Geosciences

Department Chair: Andrew B. Wallace

Geoscience Faculty: Garza, Heinlein, Koeman-Shields, Lehto, Shields.
Geology Professor Emeritus: Satterfield.

Physics Faculty: Allen, Bixler, Carrell, Holcomb, Holik, Wallace, Williams.
Physics Distinguished Professors Emeritus: Dawson, Loyd, Sonntag.
Physics Professor Emeritus: Parker.

Contact Information: Vincent Building, Room 114
Telephone: 325-942-2242
https://www.angelo.edu/departments/physics-geosciences/contact.php

Bachelor of Science (B.S.) Geoscience

(120 semester hours)

Academic Major	Hours
Geology 1303/1103, 1304/1104	8
Geology 3102, 3371, 3400, 3402, 3411, 3600	22
Geology 3302 or 3308	3
Geology 3303 or 3304	3
Geology 3310 or 4300	3
Geology 4091, 4303, or 4304	3

Major Support Courses	
Chemistry 1311/1111, 1312/1112	8
Computer Science 1314, 1336	3
English 3351	3
General Studies 1181	1
Management 3361	3
Mathematics 2413 *, 2414, 3415 or 3321	11-12
Physics 2325/2125, 2326/2126	8

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives	10-11

B.S. Geoscience (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
COMM 1315	3	GEOL 1304/1104	4
GEOL 1303/1103	4	HIST 1301	3
GS 1181	1	Elective	3
Elective	3	TOTAL	13
TOTAL	14		

Second Year

Fall		Spring	
GEOL 3400, 3402	4	GEOL 3303, 3304	3
CHEM 1311/1111	4	GEOL 3400, 3402	4
HIST 1302	3	CHEM 1312/1112	4
MATH 2413	4	MATH 2414	4
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
GEOL 3302, 3308	3	GEOL 3411	4
MATH 3415, 3321	3-4	GEOL 3102	1
POLS 2305	3	POLS 2306	3
PHYS 2325/2125	4	PHYS 2326/2126	4
TOTAL	13-14	Language, Philosophy, and Culture	3
		TOTAL	15

Fourth Year

Fall		Spring	
GEOL 4303, 4304	3	GEOL 3371	3
GEOL 3310, 4300	3	Management 3361	3
CS 1314, 1336	3	Creative Arts	3
ENGL 3351	3	Social and Behavioral Sciences	3
Elective	3	Elective	1-2
TOTAL	15	TOTAL	13-14

Fourth Year Summer

GEOL 3600	6
TOTAL	6

* The student is expected to have completed two years of high school algebra, one year of high school geometry, and a precalculus course. If not, the student will be advised whether Mathematics 1314, 1316 and/or 2312 should be completed before enrollment in Mathematics 2413.

Bachelor of Science (B.S.)
Physics

(120 semester hours)

The American Association of Physics Teachers recommends students planning to do physics graduate work take Physics 3301, 3341, and 4363 along with Mathematics 3301 and 3335. Those students who contemplate graduate studies in other disciplines will want to choose appropriate minors. Students who plan to work in industry or do graduate work in engineering should take Physics 3301, 3331, and 3332 along with Mathematics 3307 and 3335.

Academic Major	Hours
Physics 2325/2125, 2326/2126	8
Physics 3301, 3310, 3361	9
Physics 3251, 3252	4
*Physics 3331 or 3341	3
*Physics 3332 or 4363	3
*Physics (advanced)	12

Major Support Courses	
Biology, Geology, or Health Science Professions	8
Chemistry 1311/1111	4
Computer Science 1314	3
English 3351	3
General Studies 1181	1
Mathematics 2413 **, 2414, 3415	12
Mathematics 3301, 3307, or 3335	3
Physics 1191, 3170, 4071, 4091, or 4191	1

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives	16

B.S. Physics (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 1302 or 2311	3
BIOL, GEOL, HSP + Lab	4	BIOL, GEOL, HSP + Lab	4
GS 1181	1	MATH 2413**	4
CS 1314	3	PHYS 2325/2125	4
Elective	3	TOTAL	15
TOTAL	14		

Second Year

Fall		Spring	
Language, Philosophy, Culture	3	MATH 3415	4
MATH 2414	4	CHEM 1311/1111	4
PHYS 2326/2126	4	Physics (advanced) *	3
PHYS 1191, 3170, 4071, 4091, 4191	1	Creative Arts	3
Elective	3	Elective	3
TOTAL	15	TOTAL	17

Third Year

Fall		Spring	
MATH 3301, 3307, or 3335	3	PHYS 3251	2
PHYS 3301	3	Physics (advanced) *	3
PHYS 3361	3	Physics (advanced) *	3
HIST 1301	3	HIST 1302	3
Physics (advanced) *	3	Elective	3
TOTAL	15	TOTAL	14

Fourth Year

Fall		Spring	
ENGL 3351	3	POLS 2306	3
COMM 1315	3	PHYS 3252	2
POLS 2305	3	Physics (advanced) *	3
PHYS 3310	3	Social and Behavioral Sciences	3
Physics (advanced) *	3	Elective	4
TOTAL	15	TOTAL	15

* Physics (advanced) as specified on the degree program.

* Physics (advanced) as specified on the degree program.

** The student is expected to have completed two years of high school algebra, one year of high school geometry, and a precalculus course. If not, the student will be advised whether Mathematics 1314, 1316 and/or 2312 should be completed before enrollment in Mathematics 2413. The student must complete Mathematics 2413 and 2414 prior to the end of the second year of study and must complete Mathematics 3415 and Mathematics 3301, 3307, or 3335 prior to the end of the third year of study.

Norris-Vincent College of Business

Dean: Dr. Andrew A. Tiger
Office: Rassman 262
Telephone: 325-942-2337, **Fax:** 325-942-2285
E-Mail: college.business@angelo.edu

The Norris-Vincent College of Business is comprised of three academic departments—the Department of Accounting, Economics and Finance, the Department of Aerospace Studies, and the Department of Management and Marketing—as well as the ASU Small Business Development Center (SBDC). The Department of Accounting, Economics and Finance and the Department of Management and Marketing offer an extensive array of business degree programs at both the undergraduate and master's levels. All business degree programs are accredited by AACSB (the Association to Advance Collegiate Schools of Business). The Department of Aerospace Studies houses Detachment 847 of the Air Force Reserve Officer Training Corps (ROTC), providing superb leadership training and a path to a commission as a second lieutenant in the US Air Force upon graduation. The ASU SBDC fosters the success and growth of small businesses in their 10 county service area surrounding San Angelo.

Mission Statement

The Norris-Vincent College of Business develops values-focused professional leaders in business and aviation, creates and delivers business knowledge that solves problems, and inspires innovation so that we have a significant impact in our community and beyond.

To accomplish our mission, we seek to recruit and retain faculty members who have a passion for excellence and innovation in the classroom. Our business faculty maintain currency in their teaching disciplines through scholarly research that leads to peer-reviewed intellectual contributions, or through active engagement in the practice of business in the local and regional community.

Major Field Test/MFT for M.B.A.

All students pursuing the B.B.A. degree must complete the undergraduate Major Field Test (MFT) as a graduation requirement, which is typically administered within Management 4303. All students pursuing an M.B.A. or one of the integrated B.B.A./M.B.A. programs must complete the MFT for M.B.A. as a graduation requirement, which is typically administered within Management 6313.

Departments and Programs

Students in the Norris-Vincent College of Business may pursue studies in the following departments:

Department of Accounting, Economics and Finance

Programs of Study in Accounting
- B.B.A. Accounting
- B.B.A./M.P.Ac Integrated Professional Accountancy *
- M.P.Ac. Professional Accountancy

Programs of Study in Economics
- B.B.A. Economics

Programs of Study in Finance
- B.B.A. Finance
- B.B.A./M.B.A. Integrated Finance/Business Administration *

Department of Management and Marketing

Programs of Study
- B.B.A. International Business
- B.B.A./M.B.A. Integrated International Business/Business Administration *
- B.B.A. Management
- B.B.A./M.B.A. Integrated Management/Business Administration *
- B.B.A. Management Information Systems
- B.B.A./M.B.A. Integrated Management Information Systems/ Business Administration *
- B.B.A. Marketing
- B.B.A./M.B.A. Integrated Marketing/Business Administration *
- B.C.A. Commercial Aviation with Specialization Areas
  - Air Traffic Operations
  - Aviation Administration
  - Flight Operations - Fixed Wing
  - Flight Operations - Helicopter

Norris-Vincent College of Business

- M.B.A. Business Administration
- M.B.A. Business Administration with Specialization Area Healthcare Management
- M.S. Business Data Science and Analytics
- M.S. Hospital and Health Care Facilities Administration

Department of Aerospace Studies

For a complete list of minors see page 187.

* Recipients receive both an undergraduate and graduate degree simultaneously.

Norris-Vincent College of Business:
Department of Accounting, Economics and Finance

Department Chair: Jeremy P. St. John

Faculty: Calk, Escalante, Golden, B. Huang, Husein, Kara, Kumar, Mangano, March, Ognowski, Pier, Shonhiwa, Whitmer.

Contact Information: Rassman Building, Room 258
Telephone: 325-942-2046, Fax: 325-942-2285
http://www.angelo.edu/dept/aef/

Bachelor of Business Administration (B.B.A.) Accounting

(120 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302, 3305	9
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321	3
Finance 3361	3
Management 2331, 3301, 3305, 4303	12
Marketing 3321	3

Accounting Major Requirements

Accounting 3311, 3312, 3313, 3331, 3361, 4303	18
Business Computer Information Systems 4366	3
Business 3347	3

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	11

B.B.A. Accounting (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
HIST 1301	3	HIST 1302	3
MATH 1314, 1324, 1342	3	BCIS 1305	3
BUSI 1301	3	ACCT 2301	3
COMM 1315	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
ACCT 2302	3	ACCT 3311	3
ECON 2301	3	BUSI 3301	3
Creative Arts	3	MGMT 2331	3
Language, Philosophy, Culture	3	Life and Physical Sciences	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ACCT 3312	3	ACCT 3305	3
ECON 2302	3	ACCT 3313	3
FINC 3361	3	ACCT 3361	3
MGMT 3301	3	MGMT 3305	3
MKTG 3321	3	COMM 3352	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
ACCT 3331	3	MGMT 4303	3
ACCT 4303	3	Elective	3
BUSI 3347	3	Elective	3
BCIS 4366	3	Elective	3
B.B.A. Core International Option	3	Elective	2
TOTAL	15	TOTAL	14

Bachelor of Business Administration (B.B.A.) Master of Professional Accountancy (M.P.Ac.) Integrated Professional Accountancy

(150 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302, 3305	9
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321	3
Finance 3361	3
Management 2331, 3301, 3305, 4303	12
Marketing 3321	3

Accounting Major Requirements	
Accounting 3311, 3312, 3313, 3331, 3361, 4303	18
Business Computer Information Systems 4366	3
Business 3347	3

Major Support Courses	
Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives (undergraduate)	11

M.P.Ac Requirements	
Accounting 6303, 6309, 6317, 6325, 6332, 6361, 6363	21
Management 6303	3
Graduate Electives from Accounting, Business, Economics, Finance, Management, or Marketing	6

Students interested in the Integrated B.B.A./M.P.Ac. in Professional Accountancy will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.B.A. in Accounting, and the graduate course requirements are identical to those for the M.P.Ac. Therefore, this five-year integrated B.B.A./M.P.Ac. program has a true 4+1 modular structure.

Candidates for this program must meet the current admission requirements for the M.P.Ac. program and be unconditionally admitted before taking any graduate M.P.Ac. courses. The student must achieve a cumulative GPA of 3.00 or better in all undergraduate courses and a cumulative GPA of 3.00 or better in all graduate courses.

A unique feature of the integrated program is that the student will begin taking graduate course work in his/her senior year. Upon successful completion of all 150 semester credit hours of this five-year program, the student will be awarded both the B.B.A. in Accounting and the M.P.Ac. degree at the same time; the student will not receive the B.B.A. in Accounting after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.P.Ac. portion of the integrated program, then this student would simply have to complete any remaining degree requirements for the B.B.A. in Accounting in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all of the undergraduate courses already completed as part of the integrated five-year program would count towards completion of the B.B.A. in Accounting.

Bachelor of Business Administration (B.B.A.) Economics

(120 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307	3
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Economics Major Requirements

Economics 3311, 3312, 3320, 3360, 4309	15
Economics 3000-4000 level Elective	6
Business 3000-4000 level Elective	3

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 11

B.B.A. Economics (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
HIST 1301	3	HIST 1302	3
MATH 1314, 1324, 1342	3	BCIS 1305	3
BUSI 1301	3	ECON 2301	3
COMM 1315	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
ACCT 2301	3	ACCT 2302	3
ECON 2302	3	BUSI 3301	3
Creative Arts	3	MGMT 2331	3
Life and Physical Sciences	3	Language, Philosophy, Culture	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
COMM 3352	3	MGMT 3305	3
MGMT 3301	3	MKTG 3321	3
FINC 3361	3	ECON 3312	3
ECON 3311	3	ECON 3360	3
Business Elective (3000, 4000)	3	Business Elective (3000, 4000)	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
MGMT 3343	3	MGMT 4303	3
ECON 3320	3	ECON 4307	3
ECON 4309	3	Economics Elective (3000, 4000)	3
Elective	3	Elective	3
Elective	3	Elective	2
TOTAL	15	TOTAL	14

Bachelor of Business Administration (B.B.A.) Finance

(120 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Finance 3361, 4367	6
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Finance Major Requirements

Accounting 3311	3
Business 3000-4000 level Elective	3
Business Computer Information Systems 4366	3
Finance 3360, 3365, 4361, 4363, 4364	15

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives 11

Undergraduate Certificate Available in Finance

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any coursework for certificates must be taken in residence.

This certificate is open to any student who completes the required courses:

Certificate - Financial Awareness (12 SCH required)

BUSI 2321 Money Management and Professional Readiness	3
FINC 3301 Real Estate Fundamentals	3
FINC 3362 Personal Finance	3
FINC 3364 General Insurance	3

B.B.A. Finance (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
HIST 1301	3	HIST 1302	3
MATH 1314, 1324, 1342	3	BCIS 1305	3
BUSI 1301	3	ECON 2301	3
COMM 1315	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
ACCT 2301	3	ACCT 2302	3
ECON 2302	3	BUSI 3301	3
Creative Arts	3	MGMT 2331	3
Life and Physical Sciences	3	Language, Philosophy, Culture	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
ACCT 3311	3	BCIS 4366	3
COMM 3352	3	FINC 3360	3
FINC 3361	3	FINC 3365	3
MGMT 3301	3	Business Elective (3000, 4000)	3
MKTG 3321	3	MGMT 3305	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
FINC 4367	3	MGMT 4303	3
FINC 4361	3	FINC 4364	3
FINC 4363	3	Electives	3
MGMT 3343	3	Electives	3
Electives	3	Electives	2
TOTAL	15	TOTAL	14

Undergraduate Certificate Available in Banking

All undergraduate certificate programs require an overall 2.00 grade point average and a grade of at least a "C" in each required class. 25% of any coursework for certificates must be taken in residence.

This certificate is open to any student who completes the required courses:

Certificate - Banking (15 SCH required)

ACCT 3311 Financial Accounting and Reporting I	3
FINC 4324 Credit Analysis and Lending	3
FINC 4361 Financial Institution Administration	3
FINC 4371 Internship	3
MKTG 3323 Sales	3

Prerequisites must be met for all courses selected in this certificate.

Bachelor of Business Administration (B.B.A.)
Master of Business Administration (M.B.A.)
Integrated Finance/Business Administration

(150 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Finance 3361, 4367	6
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Finance Major Requirements

Accounting 3311	3
Business 3000-4000 level Elective	3
Business Computer Information Systems 4366	3
Finance 3360, 3365, 4361, 4363, 4364	15

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	11

M.B.A. Requirements

Accounting 6300	3
Accounting 6301	3
Economics 6311	3
Finance 6301	3
Management 6303, 6311, 6312, 6313	12
Marketing 6301	3
Elective (MBA Director approved)	3

Students interested in the Integrated B.B.A./M.B.A. in Finance will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.B.A. in Finance, and the graduate course requirements are identical to those for the M.B.A. Therefore, this five-year integrated B.B.A./M.B.A. program has a true 4+1 modular structure.

Candidates for this program must meet the current admission requirements for the M.B.A. program and be unconditionally admitted before taking any graduate M.B.A. courses. The student must achieve a cumulative GPA of 3.00 or better in all undergraduate courses and a cumulative GPA of 3.00 or better in all graduate courses.

A unique feature of the integrated program is that the student will begin taking graduate course work in his/her senior year. Upon successful completion of all 150 semester credit hours of this five-year program, the student will be awarded both the B.B.A. in Finance and the M.B.A. degree at the same time; the student will not receive the B.B.A. in Finance after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.B.A. portion of the integrated program, then this student would have to complete any remaining degree requirements for the B.B.A. in Finance in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all of the undergraduate courses already completed as part of the integrated five-year program would count towards completion of the B.B.A. in Finance.

Norris-Vincent College of Business:
Department of Management and Marketing

Department Chair: Rex T. Moody

Faculty: Arzate, Ford, Gould, Hettick, J. Huang, Kamalapur, Karvonen, Moody, Munoz, Randall, Romine, Segoviano, Shi, Shorey, Singh, Tiger, Turner.

Contact Information: Rassman Building, Room 212
Telephone: 325-942-2383
http://www.angelo.edu/dept/management_marketing/

Bachelor of Business Administration (B.B.A.) International Business

(120 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Finance 3361	3
Management 2331, 3301, 3305, 3311, 3343, 4303	18
Marketing 3321	3

International Business Major Requirements	
Business 3000-4000 level elective	6
Cultural Competence 2323	3
Economics 3320, 3360, 4307, Finance 4367, Management 3312, 3313, 3381, 4091, 4331, 4371, 4381	9
Economics 4307 or Finance 4367	3
Management 3332	3
Marketing 4321	3

Major Support Courses	
Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives	8

B.B.A. International Business (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
HIST 1301	3	HIST 1302	3
COMM 1315	3	ECON 2301	3
MATH 1314, 1324, 1342	3	BCIS 1305	3
BUSI 1301	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
ACCT 2301	3	BUSI 3301	3
ECON 2302	3	ACCT 2302	3
Life and Physical Sciences	3	MGMT 2331	3
POLS 2305	3	POLS 2306	3
Creative Arts	3	CUL 2323	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
COMM 3352	3	ECON 4307 or FINC 4367	3
MGMT 3301	3	MGMT 3332	3
MGMT 3311	3	FINC 3361	3
MKTG 3321	3	Business 3000-4000 level elective	3
Elective	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
MGMT 3305	3	MGMT 3343	3
MKTG 4321	3	MGMT 4303	3
Business 3000-4000 level elective	3	Business (advanced) *	3
Business (advanced) *	3	Business (advanced) *	3
Elective	3	Elective	2
TOTAL	15	TOTAL	14

* ECON 3320, 3360, 4307, FINC 4367, MGMT 3312, 3313, 3381, 4091, 4331, 4371, 4381.

Bachelor of Business Administration (B.B.A.)
Master of Business Administration (M.B.A.)
Integrated
International Business/Business Administration

(150 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Finance 3361	3
Management 2331, 3301, 3305, 3311, 3343, 4303	18
Marketing 3321	3

International Business Major Requirements

Business 3000-4000 level elective	6
Cultural Competence 2323	3
Economics 3320, 3360, 4307, Finance 4367, Management 3312, 3313, 3381, 4091, 4331, 4371, 4381	9
Economics 4307 or Finance 4367	3
Management 3332	3
Marketing 4321	3

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	8

M.B.A. Requirements

Accounting 6300	3
Accounting 6301	3
Economics 6311	3
Finance 6301	3
Management 6303, 6311, 6312, 6313	12
Marketing 6301	3
Elective (MBA Director approved)	3

Students interested in the Integrated B.B.A./M.B.A. in International Business will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.B.A. in International Business, and the graduate course requirements are identical to those for the M.B.A. Therefore, this five-year integrated B.B.A./M.B.A. program has a true 4+1 modular structure.

Candidates for this program must meet the current admission requirements for the M.B.A. program and be unconditionally admitted before taking any graduate M.B.A. courses. The student must achieve a cumulative GPA of 3.00 or better in all undergraduate courses and a cumulative GPA of 3.00 or better in all graduate courses.

A unique feature of the integrated program is that the student may begin taking graduate course work in his/her senior year. Upon successful completion of all 150 semester credit hours of this five-year program, the student will be awarded both the B.B.A. in International Business and the M.B.A. degree at the same time; the student will not receive the B.B.A. in International Business after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.B.A. portion of the integrated program, then this student would have to complete any remaining degree requirements for the B.B.A. in International Business in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all of the undergraduate courses already completed as part of the integrated five-year program would count towards completion of the B.B.A. in International Business.

Bachelor of Business Administration (B.B.A.) Management

(120 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321	3
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Management Major Requirements

Management 3303, 3304	3
Management 3332	3
Management 3000-4000 level electives, (except Management 4336, 4343, 4344)	12
Business 3000-4000 level electives	9

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	8

B.B.A. Management (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
HIST 1301	3	HIST 1302	3
MATH 1314, 1324, 1342	3	BCIS 1305	3
BUSI 1301	3	ECON 2301	3
COMM 1315	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
ACCT 2301	3	ACCT 2302	3
ECON 2302	3	BUSI 3301	3
Creative Arts	3	MGMT 2331	3
Language, Philosophy, Culture	3	Life and Physical Sciences	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
FINC 3361	3	MGMT 3303, 3304	3
MGMT 3301	3	Management 3000-4000 level elective	3
MGMT 3305	3	COMM 3352	3
MGMT 3343	3	B.B.A. Core International Option	3
MKTG 3321	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
MGMT 3332	3	MGMT 4303	3
Business 3000-4000 level elective	3	Business 3000-4000 level elective	3
Business 3000-4000 level elective	3	Management 3000-4000 level elective	3
Management 3000-4000 level elective	3	Elective	3
Management 3000-4000 level elective	3	Elective	2
TOTAL	15	TOTAL	14

Bachelor of Business Administration (B.B.A.) Master of Business Administration (M.B.A.) Integrated Management/Business Administration

(150 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321	3
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Management Major Requirements	
Management 3303, 3304	3
Management 3332	3
Management 3000-4000 level electives	12
Business 3000-4000 level electives	9

Major Support Courses	
Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum	
See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	
Electives	8

M.B.A. Requirements	
Accounting 6300	3
Accounting 6301	3
Economics 6311	3
Finance 6301	3
Management 6303, 6311, 6312, 6313	12
Marketing 6301	3
Elective (MBA Director approved)	3

Students interested in the Integrated B.B.A./M.B.A. in Management will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.B.A. in Management, and the graduate course requirements are identical to those for the M.B.A. Therefore, this five-year integrated B.B.A./M.B.A. program has a true 4+1 modular structure.

Candidates for this program must meet the current admission requirements for the M.B.A. program and be unconditionally admitted before taking any graduate M.B.A. courses. The student must achieve a cumulative GPA of 3.00 or better in all undergraduate courses and a cumulative GPA of 3.00 or better in all graduate courses.

A unique feature of the integrated program is that the student may begin taking graduate course work in his/her senior year. Upon successful completion of all 150 semester credit hours of this five-year program, the student will be awarded both the B.B.A. in Management and the M.B.A. degree at the same time; the student will not receive the B.B.A. in Management after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.B.A. portion of the integrated program, then this student would have to complete any remaining degree requirements for the B.B.A. in Management in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all of the undergraduate courses already completed as part of the integrated five-year program would count towards completion of the B.B.A. in Management.

Bachelor of Business Administration (B.B.A.) Management Information Systems

(120 semester hours)

B.B.A. Core Requirements — Hours

Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321	3
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Management Information Systems Major Requirements

Business 3000-4000 level elective	3
Computer Science 1336, 1337, 1351, 3312	6
Management 3332, 3351 or 3352, 3361, 4336, 4343, 4344	18

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	8

B.B.A. Management Information Systems (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
MATH 1314, 1324, 1342	3	CS 1336, 1351	3
BUSI 1301	3	BCIS 1305	3
COMM 1315	3	ECON 2301	3
GS 1181	1	HIST 1302	3
HIST 1301	3	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
Life and Physical Sciences	3	Life and Physical Sciences	3
POLS 2305	3	POLS 2306	3
ACCT 2301	3	ACCT 2302	3
ECON 2302	3	MGMT 2331	3
Creative Arts	3	BUSI 3301	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
MGMT 3343	3	MGMT 3361	3
MGMT 3301	3	MGMT 4336	3
MKTG 3321	3	FINC 3361	3
COMM 3352	3	MGMT 3305	3
Language, Philosophy, Culture	3	CS 1337, 3312	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
MGMT 3351 or 3352	3	MGMT 3332	3
Business 3000-4000 level elective	3	MGMT 4303	3
MGMT 4343	3	MGMT 4344	3
B.B.A. Core International Option	3	Elective	3
Elective	3	Elective	2
TOTAL	15	TOTAL	14

Bachelor of Business Administration (B.B.A.) Master of Business Administration (M.B.A.) Integrated Management Information Systems/ Business Administration

(150 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321	3
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3

Management Information Systems Major Requirements

Business 3000-4000 level elective	3
Computer Science 1314 or 1351, 3312	6
Management 3332, 3351 or 3352, 3361, 4336, 4343, 4344	18

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	8

M.B.A. Requirements

Accounting 6300	3
Accounting 6301	3
Economics 6311	3
Finance 6301	3
Management 6303, 6311, 6312, 6313	12
Marketing 6301	3
Elective (MBA Director approved)	3

Students interested in the Integrated B.B.A./M.B.A. in Management Information Systems will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.B.A. in Management Information Systems, and the graduate course requirements are identical to those for the M.B.A. Therefore, this five-year integrated B.B.A./M.B.A. program has a true 4+1 modular structure.

Candidates for this program must meet the current admission requirements for the M.B.A. program and be unconditionally admitted before taking any graduate M.B.A. courses. The student must achieve a cumulative GPA of 3.00 or better in all undergraduate courses and a cumulative GPA of 3.00 or better in all graduate courses.

A unique feature of the integrated program is that the student may begin taking graduate course work in his/her senior year. Upon successful completion of all 150 semester credit hours of this five-year program, the student will be awarded both the B.B.A. in Management Information Systems and the M.B.A. degree at the same time; the student will not receive the B.B.A. in Management Information Systems after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.B.A. portion of the integrated program, then this student would have to complete any remaining degree requirements for the B.B.A. in Management Information Systems in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all of the undergraduate courses already completed as part of the integrated five-year program would count towards completion of the B.B.A. in Management Information Systems.

Bachelor of Business Administration (B.B.A.) Marketing

(120 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3
Marketing 4321	3

Marketing Major Requirements

Business 3000-4000 level electives	6
Management 3332	3
Marketing 3322, 3323, 4325, and two Marketing 3000-4000 level electives	15
Psychology 2301 or Sociology 1301	3

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum	42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	8

B.B.A. Marketing (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
ENGL 1301	3	ENGL 2311	3
HIST 1301	3	HIST 1302	3
MATH 1314, 1324, 1342	3	BCIS 1305	3
BUSI 1301	3	ECON 2301	3
COMM 1315	3	Life and Physical Sciences	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
POLS 2305	3	POLS 2306	3
ACCT 2301	3	ACCT 2302	3
ECON 2302	3	BUSI 3301	3
Creative Arts	3	MGMT 2331	3
Language, Philosophy, Culture	3	Life and Physical Sciences	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
MGMT 3305	3	MKTG 3322	3
MGMT 3343	3	Marketing 3000-4000 level elective	3
PSY 2301, SOC 1301	3	FINC 3361	3
MGMT 3301	3	COMM 3352	3
MKTG 3321	3	Elective	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
Marketing 3000-4000 level elective	3	MGMT 4303	3
Business 3000-4000 level elective	3	Business 3000-4000 level elective	3
MKTG 3323	3	MKTG 4325	3
MKTG 4321	3	Elective	3
MGMT 3332	3	Elective	2
TOTAL	15	TOTAL	14

Bachelor of Business Administration (B.B.A.)
Master of Business Administration (M.B.A.)
Integrated Marketing/Business Administration

(150 semester hours)

B.B.A. Core Requirements	Hours
Accounting 2301, 2302	6
Business 1301, 3301	6
Business Computer Information Systems 1305	3
Communication 3352	3
Economics 2301, 2302	6
Finance 3361	3
Management 2331, 3301, 3305, 3343, 4303	15
Marketing 3321	3
Marketing 4321	3

Marketing Major Requirements

Business 3000-4000 level electives	6
Management 3332	3
Marketing 3322, 3323, 4325, and two Marketing 3000-4000 level electives	15
Psychology 2301 or Sociology 1301	3

Major Support Courses

Communication 1315	3
English 1301, 2311	6
General Studies 1181	1
Mathematics 1314, 1324, 1342	3

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives

Electives	8

M.B.A. Requirements

Accounting 6300	3
Accounting 6301	3
Economics 6311	3
Finance 6301	3
Management 6303, 6311, 6312, 6313	12
Marketing 6301	3
Elective (MBA Director approved)	3

Students interested in the Integrated B.B.A./M.B.A. in Marketing will be required to complete a minimum of 150 semester credit hours of degree credit. Of this total, 120 semester credit hours will be at the undergraduate level and 30 semester credit hours will be at the graduate level. The undergraduate course requirements are identical to those for the non-integrated B.B.A. in Marketing, and the graduate course requirements are identical to those for the M.B.A. Therefore, this five-year integrated B.B.A./M.B.A. program has a true 4+1 modular structure.

Candidates for this program must meet the current admission requirements for the M.B.A. program and be unconditionally admitted before taking any graduate M.B.A. courses. The student must achieve a cumulative GPA of 3.00 or better in all undergraduate courses and a cumulative GPA of 3.00 or better in all graduate courses.

A unique feature of the integrated program is that the student may begin taking graduate course work in his/her senior year. Upon successful completion of all 150 semester credit hours of this five-year program, the student will be awarded both the B.B.A. in Marketing and the M.B.A. degree at the same time; the student will not receive the B.B.A. in Marketing after completing 120 semester credit hours at the undergraduate level.

Should a student decide not to complete the M.B.A. portion of the integrated program, then this student would have to complete any remaining degree requirements for the B.B.A. in Marketing in order to be awarded that degree. Because of the 4+1 structure of the integrated program, all of the undergraduate courses already completed as part of the integrated five-year program would count towards completion of the B.B.A. in Marketing.

Commercial Aviation

Program Director: Scott Turner; Rassman Building, Room 202; E-mail: aviation@angelo.edu; Telephone: 325-942-2036

Angelo State University currently offers four options for students who desire a career in Aviation: Flight Operations-Fixed Wing and Helicopter, Air Traffic Operations, and Aviation Administration. ASU Commercial Aviation students receive the highest level of education, providing them with the proficiency and skill that will make them optimal candidates in today's aviation marketplace. The aviation industry seeks a wide variety of skilled professionals, including pilots, airport managers, air traffic controllers, and engineers. Employment possibilities for airline and commercial pilots are projected to grow 5% over the next decade, a faster than average growth according to the Bureau of Labor Statistics (BLS). The median annual salary for these highly trained and educated professionals is over $120,000.

The program culminates in a Bachelor of Commercial Aviation degree within four years.

All Commercial Aviation core and track major courses require a grade of "C" or better to progress to the next course. Each flight course is designed to be completed in a semester, but because of outside influences, some may take longer. Students will receive an "I" until the course is complete. Students are required to get a 2nd class medical exam every twelve months. Students are required to maintain a current subscription to the Foreflight application. Instrument and Commercial students are required to maintain a Jeppesen navigation and approach chart subscription through Foreflight. Headset, one-time cost required to start flight training. The training costs are based on successfully completing each lesson on the first attempt. Extra training costs could occur. Books and other reference materials required for training are not included in costs listed.

Air Traffic Operations

Students in the air traffic operations track will develop knowledge and skills that will prepare them to become FAA Certified air traffic professionals. Many of the courses in this track include a laboratory requirement where students will hone their operational knowledge and analytical skills that are needed to safely exercise the privileges and responsibilities of an air traffic control professional.

Aviation Administration

For the non-pilot with a passion for aviation the Aviation Administration track prepares students for supervisory and administrative responsibilities at all levels in the field including positions at airlines, corporations, and military aviation. These students will obtain:

- A thorough and comprehensive understanding of federal aviation regulations.
- A broad understanding of the aviation industry.
- A knowledge of the skills, techniques and procedures used in maintaining airports, airlines, government, non-governmental, and general aviation.

Flight Operations - Fixed Wing

There are two main elements to the Flight Operations-Fixed Wing track: flight training and a university degree. Angelo State's B.C.A. Flight Operations-Fixed Wing program fully integrates these two goals into one four-year degree by combining classroom teaching and flight training. A synchronously designed program delivers a flexible and all-encompassing experience. Students sign up for flight courses, which lead to academic credit hours and pilot certificates or ratings. The flight courses coincide with specific ground training and the courses are approved by 14 CFR Part 141.

Flight Operations - Helicopter

There are two main elements to the Flight Operations track: flight training and a university degree. Angelo State's B.C.A. Flight Operations program fully integrates these two goals into one four-year degree by combining classroom teaching and flight training. A synchronously designed program delivers a flexible and all-encompassing experience. Students sign up for flight courses, which lead to academic credit hours and pilot certificates or ratings.

Bachelor of Commercial Aviation (B.C.A.) Air Traffic Operations

(120 semester hours)

Academic Major	Hours
Business Computer Information Systems 1305	3
Commercial Aviation 1301, 1356	6
Commercial Aviation 3371, 3372, 3373, 3374, 3375, 3380, 3381	21
Air Traffic Operations Track	
Commercial Aviation 1342, 1142, 2343, 2143, 2344, 2144	12
Commercial Aviation 3345, 3145, 3346, 3146, 4347, 4147, 4348, 4148, 4349, 4149	20
Commercial Aviation 2245, 3348, 4345	8
Management 3301	3
Major Support Courses	
Economics 2301	3
English 2311	3
General Studies 1181	1
Geology 1347	3
Mathematics 1314, 1324	6
Physics 1301/1101	4
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Elective Hours	
Electives	3

B.C.A. Commercial Aviation - Air Traffic Operations (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
CAV 1142	1	CAV 2143	1
CAV 1301	3	CAV 2343	3
CAV 1356	3	BCIS 1305	3
CAV 1342	3	COMM 1315	3
GS 1181	1	ENGL 1301	3
MATH 1314 or 1324	3	GEOL 1347	3
TOTAL	14	TOTAL	16

Second Year

Fall		Spring	
CAV 2144	1	CAV 3145	1
CAV 2245	2	CAV 3345	3
CAV 2344	3	ECON 2301	3
ENGL 2311	3	MGMT 3301	3
MATH 1314 or 1324	3	PHYS 1301/1101	4
POLS 2305	3	POLS 2306	3
TOTAL	15	TOTAL	17

Third Year

Fall		Spring	
CAV 3146	1	CAV 3373	3
CAV 3346	3	CAV 3374	3
CAV 3348	3	CAV 4147	1
CAV 3371	3	CAV 4345	3
CAV 3372	3	CAV 4347	3
HIST 1301	3	HIST 1302	3
TOTAL	16	TOTAL	16

Fourth Year

Fall		Spring	
CAV 3375	3	CAV 3381	3
CAV 3380	3	CAV 4149	1
CAV 4148	1	CAV 4349	3
CAV 4348	3	Language, Philosophy, Culture	3
Creative Arts	3	Elective	3
TOTAL	13	TOTAL	13

Bachelor of Commercial Aviation (B.C.A.) Aviation Administration

(120 semester hours)

Academic Major	Hours
Business Computer Information Systems 1305	3
Commercial Aviation 1301, 1356	6
Commercial Aviation 3371, 3372, 3373, 3374, 3375, 3380, 3381	21

Aviation Administration Track	Hours
Accounting 2301, 2302	6
Commercial Aviation 2340, 3357, 4350, 4360,	12
Geology 1347, 3371	6
Management 2331, 3303 or 3304, 3305, 4331	12
Marketing 3321	3

Major Support Courses	Hours
Economics 2301	3
English 2311	3
General Studies 1181	1
Mathematics 1314 or 1324	3
Physics 1301/1101	4

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

Electives	Hours
Electives	10

B.C.A. Commercial Aviation - Aviation Administration (120 hours)

Sample Four-Year Curriculum

First Year

Fall		Spring	
CAV 1301	3	COMM 1315	3
CAV 1356	3	ECON 2301	3
BCIS 1305	3	ENGL 2311	3
ENGL 1301	3	HIST 1301	3
MATH 1314 or 1324	3	GEOL 1347	3
GS 1181	1	TOTAL	15
TOTAL	16		

Second Year

Fall		Spring	
CAV 2340	3	ACCT 2302	3
HIST 1302	3	MGMT 2331	3
Language, Philosophy, Culture	3	MKTG 3321	3
POLS 2305	3	POLS 2306	3
ACCT 2301	3	Creative Arts	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
CAV 3371	3	CAV 3357	3
CAV 3372	3	CAV 3373	3
MGMT 3303 or 3304	3	CAV 3374	3
PHYS 1301/1101	4	MGMT 3305	3
Elective	3	Elective	3
TOTAL	16	TOTAL	15

Fourth Year

Fall		Spring	
CAV 3375	3	CAV 3381	3
CAV 3380	3	CAV 4360	3
CAV 4350	3	GEOL 3371	3
MGMT 4331	3	Elective	3
Elective	3	Elective	1
TOTAL	15	TOTAL	13

Bachelor of Commercial Aviation (B.C.A.) Flight Operations - Fixed Wing

(120 semester hours)

Academic Major	Hours
Business Computer Information Systems 1305	3
Commercial Aviation 1301, 1356	6
Commercial Aviation 3371, 3372, 3373, 3374, 3375, 3380, 3381	21

Flight Operations-Fixed Wing	Hours
Commercial Aviation 1351, 1352, 1550	11
Commercial Aviation 2340, 2350, 2353, 2354, 2355, 2362	18
Commercial Aviation 3163, 3352, 3357	7
Commercial Aviation 4192, 4331, 4332, 4387	10

Major Support Courses	Hours
Economics 2301	3
English 2311	3
General Studies 1181	1
Geology 1347	3
Mathematics 1314, 1324	6
Physics 1301/1101	4

Core Curriculum

See page 182 for a listing of core curriculum 42

Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.

B.C.A. Commercial Aviation - Flight Operations-Fixed Wing (120 hours)

Sample Four-Year Curriculum

First Year *

CAV 1301	3	BCIS 1305	3
CAV 1351	3	ENGL 1301	3
CAV 1352	3	MATH 1314 or 1324	3
CAV 1356	3	GS 1181	1
CAV 1550	5	TOTAL	30
CAV 2340	3		

Second Year

Fall		Spring	
CAV 2350	3	CAV 2354	3
CAV 2353	3	CAV 2362	3
ENGL 2311	3	CAV 3357	3
GEOL 1347	3	COMM 1315	3
MATH 1314 or 1324	3	Language, Philosophy, Culture	3
TOTAL	15	TOTAL	15

Third Year

Fall		Spring	
CAV 2355	3	CAV 3163	3
CAV 3371	3	CAV 3352	3
CAV 3372	3	CAV 3374	3
CAV 3373	3	CAV 4387	3
HIST 1301	3	HIST 1302	3
PHYS 1301/1101	4	TOTAL	15
TOTAL	19		

Fourth Year

Fall		Spring	
CAV 3375	3	CAV 3330	3
CAV 4331	3	CAV 3331	1
CAV 4332	3	CAV 4192	3
POLS 2305	3	POLS 2306	3
ECON 2301	3	Creative Arts	3
TOTAL	15	TOTAL	13

* Exact sequencing of course will depend on student needs.

Bachelor of Commercial Aviation (B.C.A.) Flight Operations - Helicopter

(120 semester hours)

Academic Major	Hours
Business Computer Information Systems 1305	3
Commercial Aviation 1301, 1356	6
Commercial Aviation 3371, 3372, 3373, 3374, 3375, 3380, 3381	21
Flight Operations-Helicopter	
Commercial Aviation 1370, 1371	6
Commercial Aviation 2350, 2373, 2374, 2375, 2376	15
Commercial Aviation 3376, 3377	6
Commercial Aviation 4331, 4372, 4175	7
Major Support Courses	
Economics 2301	3
English 2311	3
General Studies 1181	1
Mathematics 1314, 1324	6
Physics 1301/1101	4
Core Curriculum	
See page 182 for a listing of core curriculum	42
Students should be aware that some majors specify particular courses to meet core-curriculum requirements when options are available.	
Electives	
Electives	12

B.C.A. Commercial Aviation - Flight Operations-Helicopter (120 hours)

Sample Four-Year Curriculum

First Year *

CAV 1301	3	ENGL 1301	3
CAV 1356	3	GEOL 1347	3
CAV 1370	3	MATH 1314 or 1324	3
CAV 1371	3	POLS 2305	3
BCIS 1305	3	TOTAL	30
GS 1181	1		
COMM 1315	3		

Second Year

Fall		Spring	
CAV 2350	3	CAV 2374	3
CAV 2373	3	CAV 3372	3
ENGL 2311	3	ECON 2301	3
MATH 1314 or 1324	3	PHYS 1301/1101	4
POLS 2306	3	Elective	3
TOTAL	15	TOTAL	16

Third Year

Fall		Spring	
CAV 2375	3	CAV 3374	3
CAV 2376	3	CAV 3375	3
CAV 3371	3	CAV 3376	3
CAV 3373	3	CAV 3377	3
HIST 1301	3	HIST 1302	3
TOTAL	15	TOTAL	15

Fourth Year

Fall		Spring	
CAV 3380	3	CAV 3381	3
CAV 4331	3	CAV 4175	1
CAV 4372	3	Language, Philosophy, Culture	3
Creative Arts	3	Elective	3
Elective	3	Elective	3
TOTAL	15	TOTAL	13

* Exact sequencing of course will depend on student needs.

Norris-Vincent College of Business: Department of Aerospace Studies

Department Chair: Lt. Col. Karyn Argueta

Faculty: Argueta, Barrera, Cook, Fonseca.

Contact Information: Rassman Building, Room 227
Telephone: 325-942-2036; Fax: 325-942-2143
http://www.angelo.edu/dept/rotc/

Aerospace Studies
Air Force Reserve Officer Training Corps (AF-ROTC)

The Air Force ROTC program provides professional preparation for students desiring to serve as officers in the United States Air Force. The program offers information on Air Force career opportunities, role of the military in the American society, and training in leadership skills. Courses are normally taken for academic credit as part of a student's electives. Entering freshmen may register for Aerospace Studies courses at the same time and in the same manner as they enroll in their other college courses. Students desiring entry after their freshman year must contact the department for approval prior to their planned entry into the program.

The General Military Course (GMC). (Aerospace Studies Leadership Laboratories 1111, 1113, 2111, 2113, and lectures 1112, 1114, 2112, 2114) is a two-year course taken during the freshman and sophomore years, with one credit hour of academic instruction and four hours of Leadership Laboratory a week which includes mandatory physical fitness training (dates and times announced during the semester). Membership in the GMC does not confer any military status or commitment upon the cadets, but affords them the opportunity to learn about the Air Force and its role in the American society.

The Professional Officer Course (POC). (Aerospace Studies Leadership Laboratories 3111, 3113, 4111, 4113, and lectures 3312, 3314, 4312, 4314) is a two-year course normally taken during the student's junior and senior years. The class entails three credit hours of academic instruction and five hours of Leadership Laboratory a week which includes mandatory physical fitness training (dates and times announced during the semester). Entrance into the POC is limited to qualified students desiring to compete for Air Force commissions and who have had a two-week field training program. Each student selected for the POC is enlisted as a member of the Air Force Reserve and is provided a tax-free subsistence per month. The cadet who completes the POC is, upon graduation, commissioned a second lieutenant in the United States Air Force.

Other Activities. Many other activities, such as intramural sports, banquets, base visitations, drill meets, tours, and community projects are planned throughout the semester. Participation in some of these events will be required.

Special Students Aerospace Studies lecture courses (1112, 1114, 2112, 2114, 3312, 3314, 4312, 4314) are available to students who wish to learn about the Air Force but do not intend to join the Air Force.

Minor in Leadership Studies

Aerospace Studies 3312, 3314, Management 3304, Management 4306 or 4308, and six semester credit hours of approved electives selected in consultation with the program advisor. A total of 18 hours with a 2.00 or better GPA.

Air Force Scholarships for Reserve Officer Training Corps

Four-year Air Force ROTC scholarships are available on a nationwide basis for entering freshmen. Application for these highly competitive scholarships must be accomplished prior to December 1 of the senior year in high school. To apply for the four year Air Force scholarships go to the official U.S. Airforce ROTC website.

These AFROTC scholarships are also available for three years for students in any major program already enrolled in the ROTC program. Students are encouraged to contact the department for additional information.

Ronald W. Bell (USA, Ret.) ROTC Scholarship

This scholarship fund was established by the late Ronald and Mavis Bell to provide financial aid to students who are enrolled in the AFROTC program at Angelo State University. Preference will be given to cadets who meet the following criteria: the student must be United States Veteran; must be in good academic standing with a 2.75 grade point average; cadets must maintain a 15 hour course load; cadets must demonstrate financial need. If no United States Veteran is eligible, a son or daughter of a United States Veteran may qualify. If no other qualifying United States Veteran or their descendant is eligible, then a cadet who was a JROTC cadet may receive the scholarship. If the cadet maintains a 2.75 or better the scholarship will be retained until the cadet graduates.

All of the following scholarships can be applied for by using the Carr Air Force ROTC Scholarship Application plus a current school transcript showing your most recent semesters' work and two recommendations or evaluations. Other information such as a personal resume, pictures or letters can also be included and is highly recommended as these scholarships are based on a whole person concept.

R.F. Durso ROTC Scholarship

This scholarship fund was established by the Nurre family to honor the bequest of the late Rocco F. Durso to provide financial aid to one highly qualified full time Angelo State ROTC student per year. This student must be deserving and have a strong desire to succeed. Preference will be given to students who graduated from Lakeview High School and participated in the Lakeview Junior ROTC program for a minimum of two years.

Mr. and Mrs. Robert G. Carr Air Force ROTC Scholarships

Approximately 60 AFROTC scholarships up to $1,500 per year are awarded annually to Angelo State University AFROTC students. These awards have been provided by the late Mr. and Mrs. Robert G. Carr of San Angelo to help attract highly qualified students into the AFROTC program and promote academic excellence. All students who are interested in enrolling in the ROTC program are invited to apply for a Carr Air Force ROTC Scholarship which carries no military commitment but allows a student the opportunity to participate in the Air Force officer candidate program.

J.C. Chuck and Lois Wright ROTC Scholarship

This scholarship fund was established by the late Mrs. Lois Wright in memory of her husband to provide financial aid to highly qualified students/cadets enrolled in the AFROTC program at Angelo State University. Cadets must be at least sophomores with a 2.75 GPA or higher to qualify. Several scholarships are awarded annually in the amount of $1,000 per year. This scholarship carries no military commitment, although it is typically awarded to cadets who have already expressed an intent to become an Air Force Officer.

Lt. Col. Earle and Jean Maloney Scholarship

This scholarship was established by the Maloney family to honor Lt. Col. Earle and Jean Maloney. Primary preference for this scholarship is an AFROTC nursing cadet. Secondary preference for an AFROTC cadet with a minimum 3.60 GPA aspiring to attend medical school. Further preference would be an AFROTC cadet with a technical degree (sciences, engineering, information technology). If the AFROTC department ceases to exist, the scholarship will be awarded to a student receiving their B.S.N.

Captain Jack Wood Memorial Scholarship

This scholarship fund was established in memory of Marine aviator Captain Jack Wood. Eligible cadets must be at least a sophomore, meet ROTC standards, maintain a minimum GPA of 2.50 and demonstrate a financial need. The amount of this scholarship varies and can pay up to $400 each year.

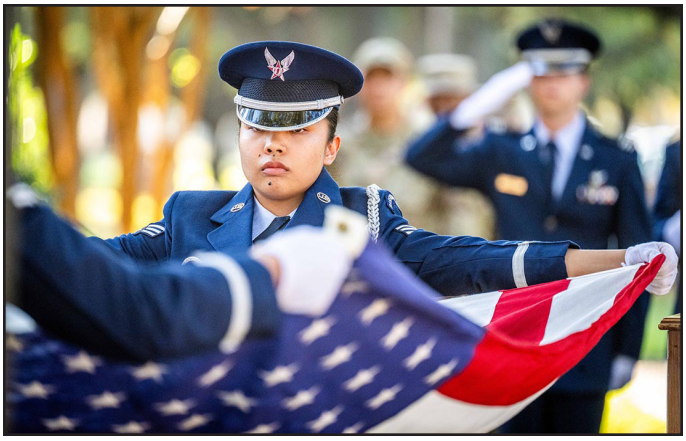
AFROTC Activities

Arnold Air Society (AAS) Robert G. Carr Squadron: a nationwide professional honorary service organization of Air Force ROTC cadets dedicated toward promoting strong AFROTC-University relationships. The AAS participates in a variety of service functions for the University and the community.

i5 Space Edwin Aldrin Chapter; i5 Space is a national student organization that operates with the aim to deliver educational, and professional development resources to students interested in pursuing a career in the Space Force. The Edwin Aldrin Chapter also strives to foster AFROTC-University relationships, and provide service functions for the community.

The Ram Guard is comprised of AFROTC students dedicated to the art of precision drill who participate in honor guard formations on campus and in the community.

Silver Wings Organization is a community service organization comprised of students who are dedicated to supporting, as an auxiliary, the Robert G. Carr Squadron of Angelo State University. Membership is welcomed for all ASU students and is not dependent on any association with Air Force Reserve Officer Training Corps.



Freshman College

Dean: Micheal W. Salisbury
Office: Porter Henderson Library, 302
Telephone: 325-942-2595
E-Mail: freshman_college@angelo.edu

Exploratory Tracks

Arts and Humanities

First Semester Courses - First Year **Reason**

Mathematics 1332 ..... Core Curriculum
English 1301 ..... Core Curriculum
History 1301 ..... Core Curriculum
Political Science 2305 ..... Core Curriculum
Communication 1315 or
Modern Language 1301 ..... Core Curriculum or Major Dependent Course
General Studies 1181 Career Explorations ..... Major Support Course
Total Hours: 16

Second Semester Courses - First Year **Reason**

English 1302 ..... Core Curriculum
History 1302 ..... Core Curriculum
Political Science 2306 ..... Core Curriculum
Creative Arts ..... Core Curriculum
Social and Behavioral Science or
Modern Language 1302 ..... Core Curriculum or Major Dependent Course
Total Hours: 15

Business

First Semester Courses - First Year **Reason**

Mathematics 1324 ..... Core Curriculum, Prerequisite for Economics, B.B.A. Major Support Course
English 1301 ..... Core Curriculum
History 1301 ..... Core Curriculum
Political Science 2305 ..... Core Curriculum
Business 1301 ..... B.B.A. Major Course
General Studies 1181 Career Explorations ..... Core Curriculum
Total Hours: 16

Second Semester Courses - First Year **Reason**

English 2311 ..... Core Curriculum
History 1302 ..... Core Curriculum
Political Science 2306 ..... Core Curriculum
Business Computer Information Systems 1305 ..... Core Curriculum or B.B.A. Major Course
Economics 2301 ..... Core Curriculum or BBA Major Support Course
Total Hours: 15

Education

First Semester Courses - First Year **Reason**

Mathematics 1314, 1324 ..... Core Curriculum
English 1301 ..... Core Curriculum
History 1301 ..... Core Curriculum
Arts 1302 or Music 1306 or Theatre 1310 . Core Curriculum or Major Dependent Course
Political Science 2305 ..... Core Curriculum
General Studies 1181 Career Explorations ..... Core Curriculum
Total Hours: 16

Second Semester Courses - First Year **Reason**

English 1302 ..... Core Curriculum
History 1302 ..... Core Curriculum
Communication 1315 ..... Core Curriculum
Political Science 2306 ..... Core Curriculum
Education 2302 ..... Major Dependent Course
Total Hours: 15

Life Sciences and Health Professions

First Semester Courses - First Year **Reason**

Mathematics 1314 ..... Core Curriculum
English 1301 ..... Core Curriculum
History 1301 ..... Core Curriculum
Biology 1307/1107 or 2323/2123 or
Health Science Professions 2301/2101 ..... Major Dependent Course
General Studies 1181 Career Explorations ..... Core Curriculum
Total Hours: 14

Second Semester Courses - First Year **Reason**

English 1302 ..... Core Curriculum
History 1302 ..... Core Curriculum
Communication 1315 ..... Core Curriculum
Biology 1306/1106 or 2324/2124 or
Health Science Professions 2302/1102 ..... Major Dependent Course
Creative Arts ..... Core Curriculum
Total Hours: 16

Mathematics, Engineering, Physical Sciences and Technology

First Semester Courses - First Year **Reason**

Mathematics 1314 ..... Core Curriculum or Prerequisite Requirement
English 1301 ..... Core Curriculum
History 1301 ..... Core Curriculum
Geology 1303, 1103 or Biology 1308, 1108 ..... Core Curriculum, Major Dependent Course, Major Support Course
General Studies 1181 Career Explorations ..... Core Curriculum
Total Hours: 14

Second Semester Courses - First Year **Reason**

English 1302 ..... Core Curriculum
History 1302 ..... Core Curriculum
Mathematics 1316 ..... Prerequisite Requirement or Major Dependent Course
Mathematics 2312 ..... Prerequisite Requirement, Major Dependent Course, Major Support Course
Chemistry 1311/1111 ..... Core Curriculum Major Dependent Course, Major Support Course
Total Hours: 16

Social and Behavioral Science

First Semester Courses - First Year **Reason**

Mathematics 1332 ..... Core Curriculum
English 1301 ..... Core Curriculum
History 1301 ..... Core Curriculum
Political Science 2305 ..... Core Curriculum
Psychology 2301 or Sociology 1301 ..... Core Curriculum or Major Dependent Course
General Studies 1181 Career Explorations ..... Core Curriculum
Total Hours: 16

Second Semester Courses - First Year **Reason**

English 1302 ..... Core Curriculum
History 1302 ..... Core Curriculum
Political Science 2306 ..... Core Curriculum
Communication 1315 ..... Core Curriculum
Creative Arts ..... Core Curriculum
Total Hours: 15

Center for International Studies

Director: David P. Morales
Office: 2419 West Avenue N
Telephone: 325-942-2083, **Fax:** 325-942-2084

Angelo State University (ASU) is committed to providing our students a globalized education in an effort to prepare them for an ever changing world. The Center for International Studies (CIS) provides international and educational opportunities for students and faculty and emphasizes the importance of international connections and partnerships as a catalyst for change. The CIS encompasses three inter-related services: Study Abroad, International Students and Scholars Services, and the English Language Learners Institute. Additionally, the CIS sponsors the Student Scholars program to provide scholarships for students involved in international research and internships, the Summer Institute for visiting programs from exchange institutions and is the campus Peace Corps advocate office. The CIS is an official U.S. passport acceptance agency providing passport services to ASU and the San Angelo community.

International Students and Scholars Services (ISSS)

Angelo State University welcomes students from countries around the world. Our office serves both prospective and current international students. Listed below are the admissions requirements for international students to attend Angelo State University.

International Student Admissions

Admission requirements information may be found in the Admission to the University section of this Catalog, see page 14 .

Study Abroad

Each year the University offers a variety of summer study abroad programs which are developed and directed by ASU faculty. In recent years, students from Angelo State University have spent their summer sessions in locations such as Australia, Bulgaria, China, Colombia, Costa Rica, France, Germany, Italy, Greece, Mexico, New Zealand, South Korea, Spain, and United Kingdom. Additionally, opportunities for international internship and research experiences are provided to ASU students in certain specialized programs. Students typically earn six hours of credit in the summer programs. Courses vary each year.

Angelo State University has also entered into exchange agreements with institutes and universities from Costa Rica, France, Germany, Italy, Mexico, the Netherlands, South Korea, Taiwan, and the United Kingdom, which enable ASU students to study abroad for a semester or an academic year. These agreements also provide opportunities for international students to study at Angelo State University where they contribute to the learning environment for ASU students through their participation in class and extracurricular activities. In addition, the University provides information and advising for the student who is interested in studying independently at an overseas university. Students who are selected to participate in a study abroad experience are eligible to apply for the International Studies scholarships.

English Language Learners' Institute

If you are interested in improving your English language skills, the intensive English program at Angelo State University (ASU) will provide you with the opportunity to study and practice the language in an outstanding academic environment. The English Language Learners' Institute is located in the Center for International Studies on the campus of ASU in San Angelo, Texas.

ELLI is a non-credit program for non-native English speakers who want to learn English for academic and professional purposes. The classes are designed for people who have an interest in studying at universities and colleges in the United States. Additionally, people who would like a short-term American study experience in order to improve their English are also encouraged to attend. Prospective students take a placement test before starting the program and are assigned to the appropriate level. Students who successfully complete the highest level are given a TOEFL waiver for ASU undergraduate and select graduate programs. For further information contact : ELLI@angelo.edu or visit the Center for International Studies.

Testing Center

Director: Lorri Morris
Office: Vincent Building, Room 291
Telephone: 325-942-2624
Email: testingcenter@angelo.edu
Website: http://www.angelo.edu/services/testing_center/tests/

The mission of the Angelo State University Testing Center is to meet the needs of the ASU community, Goodfellow Airforce Base, and the Greater Concho Valley by providing national and state standardized testing and proctored testing, both paper-based and online. The Testing Center helps support the institutional mission of Angelo State University by promoting the intellectual growth of students and members of the community outside the formal setting of regular course work. The Testing Center subscribes to the National College Testing Association (NCTA) Professional Standards and Guidelines for Post-Secondary Test Centers

The ASU Testing Center is a Student Services department under the Division of Academic Affairs offering the following standardized testing to ASU students and the general public:

• ACT National	• ACT Residual (On-Campus)
• CLEP (College Level Examination Program)	• DSST (DANTES Subject Standardized Tests)
• GRE (Graduate Record Examination)	• Major Field Test and ACAT-History Exit Exams
• SAT (College Board)	• TEAS (Texas Essential Academic Skills) Nursing
• TExES - Texas Educator Certification Testing	• TSI Assessment
• Proctored Examinations	

For testing policies, fees and/or to schedule an exam, visit the Testing Center website.

The Testing Center is located in the Vincent Building, Room 291 (2333 Vanderventer Avenue). Contact the Testing Center at 325-942-2624, or e-mail testingcenter@angelo.edu.

Honors Program

Director: Shirley M. Eoff
Office: Porter Henderson Library, Room A302B
Telephone: 325-942-2722
Website: http://www.angelo.edu/dept/honors/

The Angelo State University Honors Program provides an enriched learning experience that enhances the educational program of academically talented and highly motivated students from all disciplines. At the heart of the program is a learning community of capable and intellectually curious students who seek breadth and depth in their education and commit to becoming well-rounded scholars and students. The program challenges students to delve deeply into their academic studies, to develop their analytical skills, and to actively engage in university and community life. The Honors Program combines coursework, academic and cultural enrichment events, and community engagement activities designed to foster community and to help individual students maximize their intellectual and personal talents and prepare to become engaged citizens and successful practitioners in their chosen career paths.

Goals

The Honors Program at Angelo State University provides member students with opportunities to:

- Partner with like-minded students and faculty in a unique learning community
- Engage in diverse and enriching learning experiences within and beyond the classroom
- Achieve a deeper understanding of course materials through exposure to multidisciplinary perspectives and independent research projects
- Develop enhanced leadership qualities and engage in service-learning activities that foster responsible citizenship
- Participate in cultural and intellectual events that enhance understanding and appreciation for individual and global diversity

Honors Curriculum

The Honors Program curriculum requires a minimum of 18 semester credit hours as specified below to receive High University Honors. Students wishing to achieve Highest University Honors complete the same curriculum plus an additional 3 semester credit hours honors thesis requirement. The curriculum is designed to be a viable option for most majors.

Honors Academic Requirements	Hours
HONR 2302 - Great Works in the Arts	3
HONR 2305 - Honors Seminar in the Humanities	3
HONR 3381 - Honors Senior Seminar	3
Honors contracts in the academic major	6
Honors Research/Creative Activity	3
Optional Honors Thesis	3

Honors Core Curriculum Course

- Honors 2302 - Great Works in the Arts

Applying for Admission

Students must make special application as an entering freshman to be considered for admission to the Honors Program. The recommended standards for admission are a composite SAT score (ERW and mathematics sections only) of 1260 or better or a composite ACT of 27 or better, a competitive class ranking, and a record of engagement in extracurricular and service activities. The selection process considers test scores and records of activity along with responses to application questions and reference letters; therefore, students who do not quite meet the recommended standards may gain admission based on the strength of the overall application, just as students who meet or exceed the stated requirements may not be selected. Admission is competitive and contingent upon the pool of applicants for any given year.

TTUHSC School of Medicine Early Acceptance Program

The joint Angelo State University-Texas Tech University Health Sciences Center School of Medicine Early Acceptance Program offers a select group of Honors Program students the opportunity to apply early (typically during their junior year) to the School of Medicine (SOM) at TTUHSC and waive the Medical College Admission Test (MCAT). Successful applicants to the Early Admission Program are notified of their acceptance by early February and must complete their baccalaureate degree with Honors designation prior to admission to the SOM.
The primary goal of this program is to encourage Honors students to broaden their educational experiences before they enroll in their professional studies. The waiver of the MCAT allows students to include coursework or other experiences in areas such as languages, the humanities, mathematics, and business, thus enabling them to become well-rounded professionals.

General Requirements for Application. Early acceptance is available to Honors Program students within any major who meet the requirements for entry to the School of Medicine and are judged to be ***exceptional*** candidates by the SOM Admissions Committee. Students who are eligible to apply must meet the following requirements:

- Enroll officially in the Honors Program
- Enter Angelo State University as freshmen (transfer students are ineligible)
- Be legal residents of the state of Texas
- Have earned a composite score of at least 1360 (mathematics and ERW only) on the SAT or at least 29 on the ACT upon matriculation at Angelo State (the composite score must be earned in one test administration)
- Submit a formal "checklist" form to the Honors Program during the semester of application to the SOM, certifying completion of specified science coursework, attainment of a GPA of at least 3.7 overall and 3.6 in science courses, and evidence of active engagement in the Honors Program and extracurricular activities

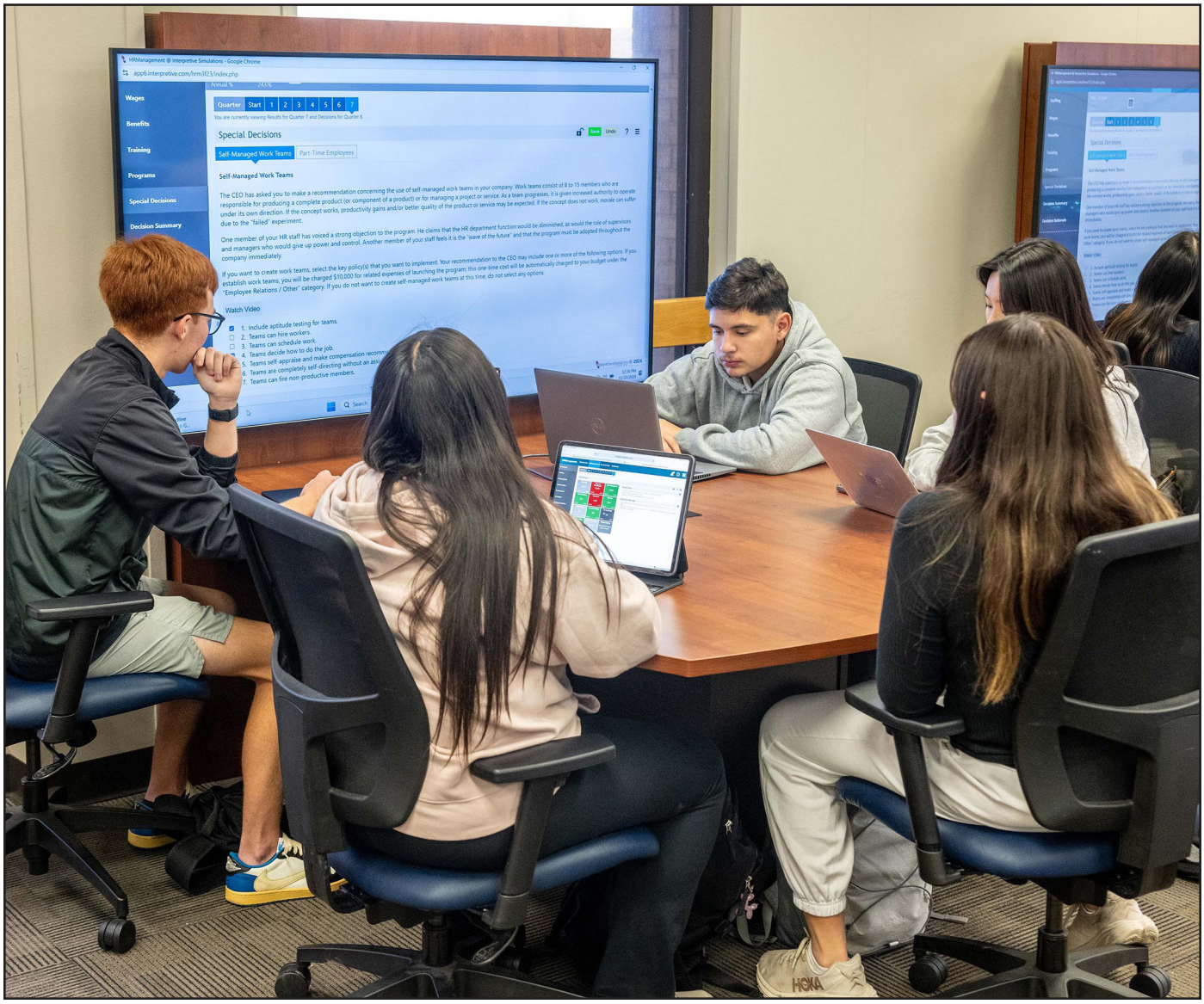
Texas Tech University School of Law Early Decision Program

The Honors Program and the Texas Tech University School of Law cooperate in a plan that allows exceptional applicants who are Honors Program students in good standing and have a minimum of 90 semester credit hours to seek and receive notification of their acceptance to the Law School during their third year at Angelo State, which would be one year before receiving their baccalaureate degree and enrolling at the School of Law.

To be eligible to apply for the Honors Program Early Decision, students must meet the following criteria:

- Have an undergraduate GPA of at least 3.5
- Have a LSAT score above the 50th percentile of all takers
- Have a SAT score of at least 1300 (excluding writing section score) or an ACT score of at least 29 (composite scores must be achieved in one sitting)
- Be enrolled in the Angelo State University Honors Program and be making satisfactory progress toward a baccalaureate degree with Honors designation.

Students must apply during the fall semester of their third year and must take the LSAT by December of that year. Students who receive and accept an early decision offer must commit to enroll at the Texas Tech University School of Law and may not apply to other law schools. The School of Law Admissions Committee applies the same standards and procedures for Early Decision applicants as for those considered under the traditional admission process. Students must complete the Honors Program curriculum and graduate with the Honors designation to secure their admission.



University Studies Program

Numerous areas of study and research do not fit into a single disciplinary sphere, and in recent years the American academic community has given increasing attention to the interrelated nature of knowledge. It has become apparent that many significant topics of contemporary relevance are studied most appropriately through the use of data, theories, and methodologies from various academic disciplines. Program areas such as urban studies, environmental quality, and foreign area studies necessitate the use of insights from a variety of academic fields.

The University Studies Program at Angelo State University consists of courses which utilize an interdisciplinary or multidisciplinary approach. These courses will be designed and taught by members of the University faculty who have special interest in and qualifications for the utilization of the interdisciplinary approach.

With the approval of the appropriate academic dean, interdisciplinary courses may be used to fulfill general education and academic major requirements for baccalaureate degree programs. These courses also may be selected as electives in any of the baccalaureate degree programs offered by the University.

Mascots

Roscoe and Bella

Roscoe is the crown-some might say clown-prince of Angelo State University while Bella is the princess of the Mall. Seen at most athletic events and many community activities, Roscoe and Bella let their actions do their talking, whether it is leading cheers, handing out candy to children or greeting freshmen when they arrive on campus.

Dominic

A purebred Rambouillet ram, Dominic stands as a proud symbol of Angelo State University and the institution's ties to the region and its people.

Student Affairs

Vice President for Student Affairs: Benjamin Lion, Ed.D.
Office: Administration Building, Room 205
Telephone: 325-942-2061
Fax: 325-942-2077

ASU is a learning community dedicated to developing the whole person through scholarship, intellectual growth, and personal development. Student Affairs supports academic learning through a co-curricular program challenging students to prepare for future endeavors as they become productive members of our local, regional, and global communities who lead as Rams.

Helpful information and policies are shared with students in two primary places: The Student Handbook and The Resident Hall Handbook. The Student Handbook communicates critical information about student rights and responsibilities and prepares you to be successful in negotiating university policies and procedures. Part I provides information on the Code of Student Conduct including student disciplinary processes. Part II provides information on specific community policies (including academic integrity), important notices and statements, student clubs and organizations, and the student government association.

Student Life

Our philosophy within the Office of Student Life is "Student Success—that's what it's all about!" and that's why we work hard to develop programming toward enhancing your opportunities as a student to participate fully in the University experience. Student Life exists to connect, engage, and develop our students in a supportive environment through positive leadership and community-building opportunities while serving as a bridge to their future accomplishments. We do this by providing you with information, services, programs, and involvement opportunities that facilitate responsible life choices and promote awareness of yourself and your community. Each of the program areas within the Office of Student Life has a specific mission, but one common goal, which is to provide programs, services, and co-curricular experiences that enhance student success. Student Life offers programs and services related to the following areas:

- Angelettes
- Career and Professional Success
- Center for Student Involvement (CSI)
- Cheerleading
- Community Service
- Greek Life
- Homecoming
- Mascots
- Registered Student Organizations (RSO)
- Student Government Association (SGA)
- University Center Program Council (UCPC)

Student Life has many areas of interest for your participation—areas that are yours to choose, join, and build upon toward your success! Involvement in Student Life is a great way to gain experience in a variety of different fields and to meet new friends in the process. Visit the Life on Campus website.

Office of Student Transitions

Office of Student Transitions at Angelo State University offers students a great way to learn about the many opportunities and resources available at our campus. Attending orientation allows you to become familiar with the campus and meet other incoming ASU students.

New Student Orientation

New Student Orientation is a one-day program that helps you and your family learn more about Angelo State University. During orientation, you will have the chance to:

- Meet other students and make new friends
- Meet with academic advisors and discuss classes and majors
- Complete course registration
- Learn about academic expectations
- Learn about the University's services and resources
- Learn about ASU traditions and how to get involved on campus

Ram Round-Up

Ram Round-Up is a three-day, two-night camp for new incoming students. This camp provides a high energy fun-filled atmosphere to meet your new classmates, learn about ASU spirit and traditions, and further prepare for your first year in college. Activities promote campus involvement, opportunities to connect with other incoming students, learn about campus resources and services, and interact with faculty and staff. Ram Round-Up focuses on ASU traditions, relationships, communication, and success in college. Ram Round-Up is open to first-year and transfer students. Register online at RamReady.

For more information visit our Orientation Programs website.

Rambunctious Week

Rambunctious Week is Angelo State University's opening week program held before classes begin in the fall. This is a charged-up, fun-filled time for all students to learn about ASU spirit and traditions and connect with others. The programming includes free cookout food and activities for enrolled ASU students and their families. You would be surprised how packed the week can be with specialty entertainment and programs. The Office of Student Transitions plans the event with assistance throughout the week from faculty and staff as well as community volunteers. Rambunctious Week culminates on Sunday with more free food, entertainment, and activities at the ASU Lakehouse located on Lake Nasworthy. While there are too many incredible activities to list, be assured that this is a week not to be missed! Visit the Rambunctious website.

Parent and Family Programs

The Parent and Family programs is the parent/family association on campus. Our goal is to connect parents and families with university news, events, and important updates. By doing this, we hope to give parents an active role in supporting their students success in college. The office sends out monthly electronic newsletters. For more information call 325-942-2061. To sign up for the newsletter visit the Parents and Family website.

Office of Title IX Compliance

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff,a nd visitors are free from sex discrimination of any kind. in accordance with Title VII, Tittle IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex. For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy, please visit the Title IX website.

Dining Services

Dining Services are provided on campus by Chartwells, a division of Compass Group. The primary "all you care to eat" dining location is The CAF. In addition, there are a number of name brand venues, including Einstein Bros. Bagels, Chick-fil-A, Subway, and Starbucks. For more information about Chartwells, please contact Stacy Patterson, General Manager of Angelo Dining, at 325-942-2741, or visit the Dine On Campus website.

Residence Halls

Housing in the University residence halls provides a physical environment which is conducive to successful academic and student life. In addition to the excellent living provided at the residence halls, residence hall staffs offer a wide range of programs and activities to supplement the classroom experience as well as personal support.

Student Health Services

Angelo State University has partnered with Shannon Clinic to provide Student Health Services. Student Health Services are available to all students who are currently enrolled in the University and have paid the Medical Services Fee for that semester in which semester credit hours are awarded. The Angelo State Student Clinic located at 2237 South Jackson, provides non-emergency, outpatient care Monday through Sunday throughout the year, 7:00 a.m. to 7:00 p.m., and is closed on some university observed holidays (when campus business offices are closed). However, medical care is also provided at nearby medical clinics and via Shannon On Demand-Virtual Care; for locations and hours, visit the Clinic website. Clinic services include medical care by Board Certified Advanced Practice Registered Nurses (APRN), nursing care, and health education. The Clinic provides many diagnostic services and treatments appropriate on an episodic, outpatient basis. It is not intended to substitute for the health maintenance care provided by the student's primary care provider. However, it can provide invaluable service for the student who can't see their private physician because of time restraints or distance.

Once the Medical Services Fee is paid, there is no charge for examination, diagnosis, or consultation services provided by the Clinic staff. However, there may be charges for injections, labs, and x-rays. Students referred by Clinic staff for health care services to an off-campus health care provider will be responsible for all related costs. The writing of prescriptions is free but actual prescription costs are the student's responsibility.

Currently enrolled students requiring emergency medical services should contact University Police or their Housing/Residential Programs Area Coordinator. Students needing emergency medical services will be responsible for all costs.

All registered domestic undergraduate students enrolled in: seven (7) or more credit hours during the long semester, three (3) or more credit hours during the summer are eligible to purchase the student health insurance plan which supplements the Clinic Services in major surgical, medical, and prescription drug benefits during both the school term and vacation periods.

All registered international students on non-immigrant visas enrolled in one (1) or more credit hours are required to purchase the Student Health Insurance Plan and are automatically enrolled in the Plan. Students must contact the Center for International Studies to fulfill this requirement. All Health Professional Students enrolled in one (1) or more credit hours must be enrolled in the Plan, unless proof of comparable coverage is furnished to the Nursing Department.

Students who do not carry other comprehensive health insurance are strongly urged to enroll in a health care insurance plan, as the Clinic cannot provide hospitalization or comprehensive health care coverage. Insurance information is available on the Health Clinic website.

For more information, please visit the Health Clinic website or call 325-942-2171.

Counseling

ASU Counseling Services provides free and confidential short-term individual, family, group, and couples relationships counseling to current students as part of their medical services fee. Students are encouraged to utilize Counseling Services to overcome personal and academic challenges. Common reasons college students seek therapeutic services include: depression, anxiety, adjustment to college, relationship issue, stress, suicidal thoughts, trauma, and academic struggles. Counseling Services clinicians are licensed professionals in the state of Texas or masters-level practicum students from ASU's Social Work and Counseling programs.

Counseling Services educates the campus community about issues surrounding mental health to promote health and wellness. Counselors collaborate with faculty and staff to provide trainings, outreach, and presentations upon request. Counseling Service staff provide consultation services for all members of the ASU community and parents if there is concern about someone else.

To schedule an appointment, call 325-942-2371 or visit us in the Counseling Services Building between 9:00 am and 4:00 pm Monday through Friday. If you are experiencing a mental health emergency call the 24/7 crisis support line at 325-486-6345. Counseling Services also has a Rams Relaxation Room, Study Room, and Creativity Center that students can use free of charge, 9:00 am to 4:00 pm, Monday through Friday.

For more information please call us at 325-942-2371, visit our website, or email counselingservices@angelo.edu.

Students with Disabilities

Angelo State University is committed to the principle that no qualified individual with a disability, shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments Act of 2008 (ADAAA), and subsequent legislation. All programs, services, and activities on the campus of Angelo State University are accessible to students with disabilities.

The Office of Dean of Students is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student's responsibility to initiate such a request by contacting the Office of Dean of Students, Houston Harte University Center, Office Suite 112, at 325-942-2047 or 325-942-2211 (FAX) or by e-mail at ADA@angelo.edu to begin the process. To the extent practical, the Office of Dean of Students, working in collaboration with the appropriate academic and/or administrative department, will authorize reasonable accommodations to assist qualified individuals with disabilities to have full and equal access to the programs and services of the university, and a full and equal opportunity to meet the academic requirements of their courses and/or their degree requirements, consistent with published academic requirements and the applicable provisions of federal and state legislation. More information on Student Disability Services is provided on our website.

Career and Professional Success

The Career and Professional Success office offers a variety of career-related services and resources to ASU students and alumni. These have been grouped into the following broad categories.

Career Exploration. Many students are undecided about a career direction or even a specific academic major. In addition, some who are satisfied with their academic plans may be uncertain how their academic interests relate specifically to employment opportunities after graduation. This office provides several services to address the needs of these individuals, including: career counseling, the administration and interpretation of career inventories, occupation information, assistance researching fields, and academic planning for employment.

Internships and Jobs. Part-time employment and gaining relevant experience are important components of your total education because they make you more marketable upon graduation. A variety of internships as well as on-campus and off-campus jobs can be accessed through the Career and Professional Success website. But please be aware that studies indicate that grades begin to suffer when students don't limit the number of hours worked to less than 20 hours per week.

Job Search. The office offers assistance with the various components of a successful job search, including resume writing, interviewing skills, networking, dining etiquette, salary negotiation, and more. Many resources can be accessed through the Career and Professional Success website.

For more information or to schedule an appointment, contact Career and Professional Success at 325-942-2255 or come by the office located in the Houston Harte University Center, Room 107. Visit the Career and Professional Success website.

Houston Harte University Center

The facilities, services, and programs of the Houston Harte University Center provide for a wide variety of out-of-class student activities on an individual or organized basis. In addition to recreational and dining facilities, the University Center contains several lounges, offices for the University Center Program Council, offices for student government, the Business Services Offices (where building management, campus reservations, and vending services reside) and the Campus Information Desk. The Office of the Dean of Students is located there along with Student Life, the Center for Student Involvement, the Center for Multicultural and Community Engagement and Success Initiatives, Center for Career and Professsional Success, the Veterans Educational and Transitional Services Center (VETS), Ram Central Station (ASU bookstore), the campus post office, meeting rooms, and a spacious conference center. For more information about the Houston Harte University Center, call 325-942-2021 or email reservations@angelo.edu. To submit an on-campus reservation request, please go to Reservations.

VETS Center

Veterans Educational and Transitional Services (VETS) Center. The VETS Center, located on the north side of Houston Harte University Center, was created to assist military veterans, active duty, guard and reserve service members, and their dependents in their pursuit of higher education. To that end, the university works in cooperation with the U.S. Department of Defense (DoD), U.S. Department of Veterans Affairs (VA) and other off-campus resources (including the Texas Veterans Commission [TVC] Hazlewood Exemption) to help our customers achieve their academic goals. The VETS Center provides assistance on how to apply for DoD, VA, and TVC education benefits. We also provide a computer lab, a recreational lounge area, and a quiet study environment for our learning community.

Tuition Assistance (T/A) Scholarship. Angelo State University offers a T/A scholarship for service members who use their Tuition Assistance while attending the university. The scholarship covers the cost difference between what T/A and any other gift aid (such as grants and scholarships) covers and the actual cost of tuition and fees for those courses authorized on the TA form. This allows service members using T/A to attend the university at no cost to the student.

Points of Contact. Telephone: 325.486.8387; Fax: 325.942.2080; Email: VETS@angelo.edu

Student Government Association (SGA)

Angelo State University's Student Government Association (SGA) is a student organization that makes decisions which have an impact on the ASU campus as a whole. SGA projects and initiatives tackle everything from studies to strategy and planning of the university's master plan. The SGA also gets the real-world experience of working with administration, faculty, and staff on committees that shape our campus from all areas including parking, facilities, housing, food, finance, health services, academic programs, and much more. Approximately 30 students serve on campus committees and give their input about new ASU projects and initiatives.

Senators serve one-year terms with elections in the spring. The SGA meets bimonthly and includes positions for freshmen looking to get involved. The possibilities of student life improvement are endless. The SGA works to ensure the best quality of education and college life that Angelo State University can offer. The SGA office is located in the Center for Student Involvement in the garden level of the Houston Harte University Center. More information on the Student Government Association is provided on our website.

Student Records

Notification of Rights under Federal Family Educational Rights and Privacy Act (FERPA) for Postsecondary Institutions

The Family Educational Rights and Privacy Act of 1974 (20 U.S.C.A. Section 1232g) protects certain rights of students who are enrolled in a post-secondary institution relative to their educational records. The Act grants students:

1. The right to inspect and review their education records within 45 days of the day Angelo State University receives a request for access. Students should submit to the registrar, dean, chair of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask Angelo State University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If Angelo State University decides not to amend the record as requested by the student, Angelo State University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Angelo State University to comply with the requirements of FERPA.

Prior to disclosure of any personally identifiable information other than directory information, except as allowed by the regulations, the University must obtain the written consent of the student and then must maintain a record of the disclosure. The categories included as directory information at Angelo State University which routinely will be made public upon request or published in appropriate University publications are:

> The student's name, local and permanent mailing address, photograph, major and minor fields of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, team photographs, dates of attendance, classification, enrollment status, degree candidate, degrees, awards and honors received, and type of award/honor, previous educational agency or institutions, and hometown.

Students who desire that their directory information not be released must submit a written request to the Registrar's Office. Forms for submitting the written request to withhold directory information are available in the Registrar's Office.

Access to Student Records

The Family Educational Rights and Privacy Act of 1974 provides that students be apprised of the location of their educational records and the administrator responsible for their maintenance. Student records are filed in a variety of offices as listed in the Student Handbook. The administrative officers are responsible for the records under their control and for the appropriate release of information contained in these records. Angelo State University forwards educational records to other educational institutions in which a student seeks or intends to enroll without providing any further notice to the individual regarding the transfer of the records.

Alcohol and Controlled Substance Violations: Parental Notification Policy (FERPA)

The Dean of Students is responsible for determining if and by what means parents or legal guardians will be notified when students under the age of 21 are found to have committed serious or repeated violations of federal, state, or local law, or University policies related to the possession, use, or distribution of alcohol or a controlled substance.

Notification of parents or legal guardians for a violation of federal, state, or local law or institutional policy regarding alcohol or a controlled substance is indicated in any of the following circumstances:

- The violation involved harm or threat of harm to self, other persons, or property.
- The violation involved an arrest in which the student was taken into custody.
- The violation suggests a pattern of alcohol or controlled substance abuse.
- The student who committed the violation required medical intervention or transport as a result of consumption of alcohol or a controlled substance.
- The violation resulted in or could result in the student being disciplined by the University including but not limited to: housing contract probation, housing contract cancellation, disciplinary probation, deferred suspension, suspension, or expulsion.

The University supports students assuming personal responsibility and accountability for their actions as they learn to establish their own independence. The University also recognizes that the process of establishing personal independence requires support and, at times, assistance or intervention from others. In the appropriate circumstances, notification of parents or legal guardians can be a means of support in that transition for students. Consistent with this approach, the Dean of Students or his/her designee—whenever possible—will involve the student in a discussion about the decision to notify his/her parents or legal guardian and will inform the student that notification will take place.

Nothing in these guidelines shall prevent University officials from notifying parents or legal guardians of health or safety emergencies, regardless of the judicial status of the student.

Student Organizations

College is a time of learning: learning about oneself, learning about the ideas of others, learning about career opportunities, learning technical skills, learning to relate with others, learning to make responsible decisions, learning to function effectively in a new environment, learning to ask significant questions, and learning to seek significant answers. All of these are part of the college experience.

Coupled with the need for those skills, however, is the need to develop other skills which may not be taught directly in the classroom, such as budgeting, interpersonal relations, delegation, motivation, hands-on problem-solving techniques, long-rang planning, program evaluation, personal evaluation, etc. The effective development of these other skill areas can be just as important to your eventual career success as the skills you learn in the classroom.

With over 100 student organizations ranging from academic and honors to spiritual life and club sports, ASU Student Organizations has something for everyone. Visit the Student Organizations website.

Athletics

Intercollegiate athletics is an integral part of student life at Angelo State. Intercollegiate teams for men include football, basketball, baseball, outdoor track and field, cross country, and indoor track and field. Intercollegiate teams for women include volleyball, soccer, basketball, softball, outdoor track and field, cross country, indoor track and field, tennis, and golf.

Angelo State is a member of the National Collegiate Athletic Association (NCAA) Division II and the Lone Star Conference. The Lone Star Conference is composed of teams from Texas, Oklahoma, and New Mexico.

Intercollegiate Athletic Offices are located in the Junell Center as are team locker rooms, two weight rooms, and sports medicine facilities. The Norris Baseball Clubhouse is home to the Rams baseball locker room. The football team plays on campus at the LeGrand Stadium at 1st Community Credit Union Field directly south of the Junell Center. Both men's and women's basketball and volleyball compete in the Junell Center Stephens Arena which seats 5,500. The LeGrand Stadium at 1st Community Credit Union Field features a 400 meter, all-weather track and has hosted the NCAA Division II Outdoor Track and Field National Championships five times, most recently in spring 2009. The Rambelle softball team plays at Mayer Softball Field, a 750 seat facility that has hosted several NCAA South Central Regional and Super Regional Championships. The baseball team plays at Foster Field at 1st Community Credit Union Stadium, a 4,200 seat facility located on the ASU campus across from the Junell Center.

University Recreation and Intramurals

University Recreation (UREC) engages the campus community by stimulating growth and development of healthy lifestyles through participation opportunities and educational experiences in the areas of aquatics, fitness, instruction, intramural sports, open recreation, outdoor adventures, wellness, and youth programs. Activities range from popular team and individual/dual sports, fitness classes, outdoor trips and workshops, and educational classes such as lifeguarding, water safety, and first aid/CPR training.

The Ben Kelly Center for Human Performance Building is a 100,000 square foot facility, which includes a 40' climbing tower and bouldering area, weight room of 60 cardio pieces with free weight and pin select strength training equipment, three lane indoor track, 25-meter natatorium, four court gymnasium, multipurpose room, dance studio, locker rooms, and four racquetball courts.

The University maintains a large, attractive lakehouse and recreational facilities at nearby Lake Nasworthy. These facilities provide students with excellent opportunities for social events and for recreational activities such as swimming, boating, kayaking, sand volleyball, picnicking, outdoor basketball, and water skiing. Additional recreation facilities include a five acre, turfed intramural complex, six lighted tennis courts, two sand volleyball courts, and a pavilion. Visit the UREC website for the most up-to-date hours of operation and programming

Student Affairs Regulations and Policies

General Statement Concerning Student Life

Attendance at a tax-supported educational institution of higher learning is optional and voluntary. By such voluntary entrance into the academic community of Angelo State University, students voluntarily assume the obligations of performance and behavior imposed by the University relevant to its lawful missions, processes, and functions. These obligations are in addition to those imposed on all citizens by the civil and criminal law.

When students enter Angelo State University, it is assumed they have serious purpose and a sincere interest in their own social and intellectual development. They are expected to learn to cope with problems with intelligence, reasonableness, and consideration for the rights of others; to obey laws and ordinances of the nation, the State of Texas, and community of which they, as well as their University, are a part; and to conduct themselves peaceably in espousing changes they may consider necessary. As they prize rights and freedoms for themselves, they are expected to respect the rights and freedoms of others.

Students are subject to federal, state, and local laws as well as University regulations and policies. A student is not entitled to greater immunities or privileges before a law than those enjoyed by other citizens generally. Students are subject to such reasonable disciplinary action as the administration of the University may consider appropriate, including suspension, dismissal, and expulsion in appropriate cases, for breach of federal, state, or local laws, or University regulations or policies. This principle extends to conduct off campus that affects a substantial University interest.

University Policies, Rules, and Regulations

University policies, rules, and regulations relating to Angelo State University students are made with the view of protecting the best interests of the individual, the general welfare of the entire student body, and the educational objectives of the University. Specific University policies, rules, and regulations governing student conduct adopted by the Board of Regents and the Administration of Angelo State University are provided in the Code of Student Conduct published in the Student Handbook. It is the responsibility of each student to become informed regarding these policies, rules, and regulations and to abide by them at all times.

Travel Management Policy and Procedures

As per SB 263 of the 77th Texas Legislature, Angelo State University maintains a policy that regulates student travel.

Angelo State University Student/Group Travel Management Policy and Procedures

1. General

These procedures apply to anyone who engages in transporting students on any university business or related travel activities. On a case-by-case basis, the vice president for finance and administration or designated representative may authorize exceptions to these procedures.

The following procedures are minimum standards; departments may mandate additional procedures. These procedures pertain to students who travel more than 25 miles from campus to an activity or event that is organized and sponsored by the institution and that is (a) funded by the institution and the travel occurs using a vehicle owned or leased by the institution, or (b) required by a student organization officially registered at the institution. These procedures also apply to commercial transportation and privately owned vehicles.

State appropriated funds cannot be used to pay for student travel.

2. Board Authorization

The university president is authorized by the Board of Regents of The Texas Tech University System to establish and administer regulations and procedures for the efficient management of the university. The enabling legislation of this policy is SB 263 of the 77th Texas Legislature. (Refer to *Texas Education Code, Chapter 51, Section 51.950*.) Said legislation and the university president represent the controlling authority of this policy and procedures.

3. Travel Requirements and Planning

A. Student Travel Requirements

(1) Student Travel (departmental or organization)

A benefits eligible employee (faculty, staff, or applicable teaching assistant) **must** be accountable for out-of-town trips involving departmental student groups or sponsored student organizations and ensure that all travel documents are completed prior to travel. An accountable employee must accompany the students unless prior approval to travel without accompaniment is granted by the vice president of student affairs on the Student/Group Travel Form.

(2) Students Traveling to Present Research Papers

Students traveling to professional conferences to present their research are not required to have an employee accompany them. The steps outlined in 3.B. below are applicable, and a benefits eligible employee (faculty member or academic administrator) must be accountable for the student's travel.

B. The accountable employee must complete the following steps:

(1) Submit a Pre-Approval under the name of the employee accountable for the trip, including the name(s) of the student(s). (For Cash Advance Requests, see section 4.)

a. Any University paid expenses (airfare, hotel, rental car) should be indicated on the Pre-Approval.

(2) Complete Student/Group Travel Form.

(3) Complete the "Student/Group Travel List."

(4) Have each trip participant complete a "Student Activity Release Form" and/or "Student Activity Release Form Private Vehicle" and return it to the department administrator who is responsible for retaining the releases. For official sports clubs, athletics and other team travel, blanket releases may be completed and submitted at the beginning of each year.

(5) Have each trip participant sign and date the "Travel Allowance Form" if students are provided the allowed city rate for meals. Attach the Travel Allowance Form to the expense report. Meal receipts are not required if this form is used.

(6) Send a duplicate copy of the Student/Group Travel Form and Student/Group Travel List to the University Police Department ten (10) days prior to the trip.

C. Departments authorizing students to use a privately owned vehicle to travel more than 25 miles from the campus to an event that is sponsored or organized by the institution and is funded

by the institution, must comply with the following:

(1) Students shall not be compelled to use their personal vehicle.

(2) Students shall not be directed to transport other students or employees.

(3) Students must complete the Student Driver Acknowledgement Statement.

(4) Departments will maintain the statements with the applicable student travel forms.

4. Student Travel Advances

A. Travel Advances

(1) Cash advances will be given only to the employee accountable for the student travel and expenses. An approved Expense Report requesting an advance must be received by the Travel Office at least five (5) working days prior to the trip.

B. After the trip, the accountable employee must submit an Expense Report within fifteen (15) days after the trip and attach all required documentation. Only the expenses for the employee accountable for the trip can be included with the students' expenses on the expense report; however, employees can include their travel on the student expense report if the student travel is for the following:

(1) Coaches or directors for band, choir, or athletics.

(2) Faculty or other full-time employees accompanying student group travel for academic conferences, competitions, or presentations of papers.

Any other employees who accompany the students must complete an individual Pre-Approval and Expense Report with accompanying documents.

The only time faculty or staff meals are reimbursable for non-overnight travel is when a faculty or staff member travels as part of a student group

C. Any unused funds should be returned to the Student Accounts Office with the Expense Report. If the Expense Report exceeds the amount of the advance, a reimbursement check will be issued to the accountable employee for the difference.

D. The accountable employee who fails to submit the Expense Report and unused funds within the allotted time for two trips will be denied any future advances. Exceptions to this policy will be handled on an individual basis. The employee must contact the Travel Office and explain the need for an extension.

In addition to following these procedures, employees and students are required to comply with all operating policies for university travel.

5. Reserving Vehicles through State-Contracted Rental Companies

A. Reservations for rental vehicles must be made by an accountable employee in the department. Students and temporary/casual employees cannot reserve rental vehicles.

B. Employees can use a state corporate travel card, a personal credit card, or request to use direct billing through Enterprise. The rental company cannot accept purchase orders to reserve vehicles.

C. Personal Accident Insurance (PAI) must be purchased through the rental company for students traveling in rental vehicles.

6. Driver Eligibility and Vehicle Safety Requirements

For information on driver eligibility and vehicle safety requirements, please refer to Operating Policy 36.03. In the event of a vehicle accident or breakdown, the employee or sponsor accompanying the students should contact his/her department and provide an update on the travel itinerary.

7. Commercial Transportation

Students traveling by commercial transportation must comply with all federal laws regulating travel and the rules of the specific carrier, including laws and rules regarding carry-on baggage and baggage weight restrictions.

8. Trip Insurance

Angelo State University does not provide trip accident insurance for individuals not employed by the university. Contact the Office of Environmental Health, Safety and Risk Management regarding optional trip insurance which is available at a reasonable cost.

Source Note: Angelo State University Operating Policy 70.09. . Approved September 3, 2019.

College of Education:

Teacher Certification

Professor and Dean, College of Education:
Scarlet M. Clouse
Office: Carr Education-Fine Arts Building, Room 285
Telephone: 325-942-2209, **Fax:** 325-942-2039

Director of Educational Support Services: Wendy Sklenarik
Field Experience Advisor: Janie Soupiset
Certification Advisor: Amanda Gibson

Undergraduate Academic Advisor: Jill Daniel
Graduate Programs Advisor: Caitie Dyer
Academic Advisor: Klarissa Morales

Teacher Certification Procedures

Candidates desiring Early Childhood to Grade 6, Grades 4 to 8, Grades 7 to 12, or all-level teacher certification are required to complete the following procedures toward teacher certification: (1) admission to and completion of the Teacher Education Program, (2) approval to take and passing the appropriate TExES tests, and (3) recommendation for certification. The State Board of Educator Certification will also require candidates to submit fingerprints for a national background check in order to issue a certificate.

Post-Baccalaureate Certification

Students seeking teacher certification who hold a baccalaureate degree should consult with the Certification Advisor in the Educator Preparation Information Center in Carr-EFA 287 or call 325-942-2209. Candidates will receive a customized plan to meet state certification requirements.

Procedures for Admission to the Teacher Education Program

Candidates apply for admission to the Teacher Education (TEP) when they have completed at least 60 semester credit hours. Instructions for applying to the TEP are available on the College of Education website. The Texas Education Agency requires a Technology Fee for all candidates, the fee must be paid before acceptance into the TEP.

At the time of application to the Teacher Education Program, all applicants must demonstrate that they have:

- Completed TEP interview in EPI Center
- Completed 60 SCH with a minimum cumulative grade point average of 2.75 at the time of application to the Teacher Education Program.
- Completed at least 12 SCH in the major/teaching field (or 15 SCH if mathematics or science major) coursework with no grade lower than a "C" and a GPA of a minimum 2.75.
- Completed the coursework to demonstrate proficiency in reading, writing, mathematics, and communication. To demonstrate proficiency, the candidate must complete the following with a grade of "C" or better:
    - Reading - History 1301 and 1302, and Political Science 2305 and 2306.
    - Writing - English 1301 and 1302 (or English 2311 if Secondary or All-level Certification).
    - Mathematics - Mathematics 1314 or equivalent.
    - Oral Communication - Communication 1315.
- Have met the requirements of the Texas Success Initiative (TSI). The TSI skill requirements are normally met at the time of admission to the university or through required coursework. For more information about the TSI, visit the Angelo State University TSI website.
- Angelo State University's candidates demonstrate acceptable teacher behavior. Candidates will be evaluated on these behaviors through the assessment of teacher dispositions. At the point of admission to the Teacher Education Program, students are required to review and accept the unit's dispositions. To view the dispositions visit the College of Education website.

Procedures for Admission to the Residency or Student/Clinical Teaching Program

Candidates applying for the Yearlong Teacher Residency or Student/Clinical Teaching Program:

Must attend an application meeting prior to residency or student/clinical teaching. Dates and times will be announced and posted in Blackboard. Also, an email will be sent to those in the TEP. For more information, please contact the EPI Center.

- Submit an application for yearlong teacher residency or student/clinical teaching. Application forms will be emailed to those attending the application meetings.
- A degree plan or post-baccalaureate certification plan must be on file in the College of Education office prior to applying to yearlong teacher residency or student/clinical teaching.

At the time of application, all applicants must have completed:

- All of the criteria for admission to the Teacher Education Program,
- A minimum of 95 SCH with a cumulative grade point average of 2.75, and
- All applicable requirements listed below.

All applicants must possess sound physical health, sound mental health, and acceptable moral character. The Admission, Retention, and Dismissal Committee may require the candidate to undergo physical and/or psychiatric evaluation.

Residency and Student/Clinical Teaching Eligibility Requirements

Note: Candidates should consult their degree plans for reference to required courses. Any deficiencies or requirement listed below must be corrected:

- By the end of the second summer term for fall residency or student/clinical teaching, or
- By the end of the fall semester for spring student/clinical teaching.

Certification: Grades 7 to 12 and All-Level

Candidates pursuing grades 7 to 12 or all-level certification in an area where the semester hour requirement for the major is:

- If the degree major has 30-42 semester hours must have grade point averages in the major of 2.75 (cumulative) with no grade lower than a "C" in all required courses completed and must have completed a minimum 24 semester hours (including 9 advanced hours) in order to be eligible to student/clinical teach.
- If the degree major has more than 42 semester hours must have grade point averages in the major of 2.75 (cumulative) with no grade lower than a "C" in all required courses completed and must have completed a minimum of 48 semester hours (including 18 advanced) in order to be eligible to student/clinical teach.
- Candidates must have completed all required advanced Pedagogy and Professional Responsibilities courses (Education 4321, Education 4322, Educational Psychology 3303 and Reading 4320) with grade point averages of 2.75 (cumulative) with no grade lower than a "C" in order to be eligible to student/clinical teach.

Candidates seeking additional certification areas must meet the same requirements as listed above.

Certification: Early Childhood Education to Grade 6 and Grades 4 to 8

Candidates pursuing Early Childhood Education to Grade 6 and Grades 4 to 8 certification must complete the following to be eligible for year-long teacher residency or to student/clinical teach.

- Except for courses used as electives, a grade of "C" or better is required on all course work.
- Candidates pursuing Early Childhood to Grade 6 certification must complete all courses in the interdisciplinary major in order to be eligible for residency or student/clinical teach with a cumulative GPA of at least 2.75 with no grade lower than a "C". Candidates entering into residency will complete Methods courses their first semester of residency. Candidates entering student/clinical teaching are required to complete Methods courses as a block prior to student/clinical teaching with a GPA of at least 2.75 with no grade lower than a "C".
- Candidates pursuing 4-8 certification must complete all courses in the interdisciplinary major with a cumulative GPA of at least 2.75 with no grade lower than a "C" in order to be eligible for residency or student/clinical teach. Candidates entering into residency will complete Methods courses their first semester of residency. Candidates entering student/clinical teaching are required to complete Methods courses as a block prior to student/clinical teaching.

The Admission, Retention, and Dismissal Committee of the Teacher Education Council must approve all applications for student/clinical teaching. Candidates who wish to appeal any of the admission requirements must petition the Chair.

TExES Eligibility And Registration Procedures

All candidates must pass a minimum of two certification examinations—one in the content area and one in pedagogy and professional responsibilities. In order for candidates at Angelo State University to be approved to take the Texas Examinations of Educator Standards (TExES) they must have completed the certification program requirements for each examination.

TExES Approval Procedure

- The College of Education Certification Advisor must receive approval from the candidate's major department before he or she will be allowed to register for a content area examination.
- Candidates must have met the requirements and been admitted to the Teacher Education Program.
- Candidates will be approved to take the Pedagogy and Professional Responsibilities examination during the student/clinical teaching semester.

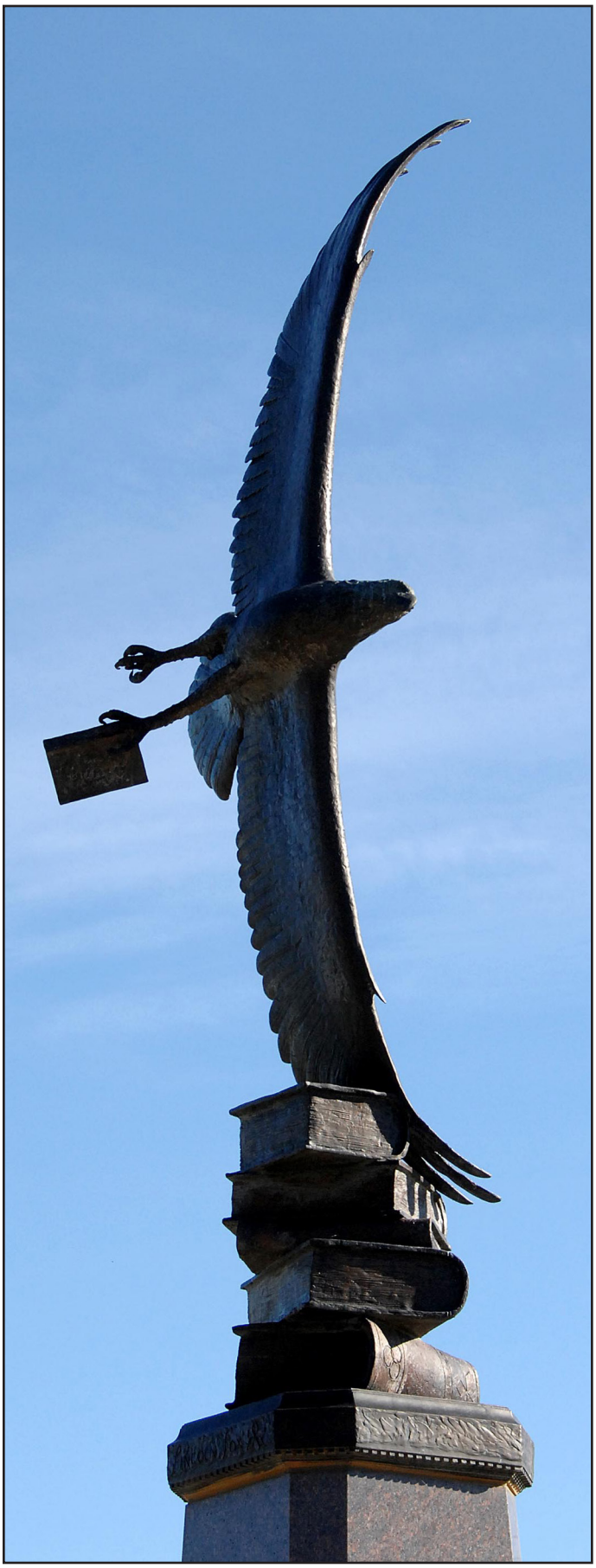
TExES Registration Procedure

Registration for the TExES examination is online. Instructions for the online registration process are located on the College of Education website. Candidates needing special testing arrangements should notify the Certification Advisor for registration assistance.

Recommendation For Initial Certification

In order for Angelo State University to recommend a candidate for Texas teacher certification, the candidate must have earned a 2.75 overall grade point average, must have completed all required courses in the teacher certification areas with a grade point average of 2.75 and with no grade lower than a "C". In addition, the candidate must have earned a 2.75 grade point average in all advanced Education and Reading courses. All other university requirements must be completed and the candidate must possess a degree. All required state certification tests must be passed. The candidate must also continue to demonstrate sound physical health, sound mental health, and acceptable moral character.

It is the candidate's responsibility to inform the College of Education that all certification requirements have been completed, and to ensure that all appropriate forms and fees have been submitted. Individuals must apply for certifications online at the State Board for Educator Certification's website.



Teacher Certification Content Areas

Elementary Certifications - Early Childhood - Grade 6

- EC-6 Generalist
- Early Childhood to Grade 6 Generalist and Special Education EC-12, Teacher Certification

Middle School Certifications - Grades 4 - 8

- 4-8 English Language Arts and Reading *
- 4-8 Generalist
- 4-8 Mathematics *
- 4-8 Mathematics-Science *
- 4-8 Science *
- 4-8 Social Studies *

Secondary Certifications

- 6-12 Agriculture, Food and Natural Resources
- 7-12 Chemistry *
- 8-12 Computer Science *
- 7-12 English Language Arts and Reading
- 7-12 History
- 7-12 Journalism (Mass Media)
- 7-12 Life Science (Biology)
- 7-12 Mathematics
- 7-12 Mathematics-Physics *
- 6-12 Physical Science *
- 7-12 Social Studies
- 7-12 Speech (Communication)

All-Level Teacher Certifications - Grades EC-12

- Art *
- EC-12 Technology Applications *
- French *
- German *
- Music
- Physical Education *
- Spanish
- Theatre

* These certification areas are no longer offered in a degree format. Students interested in obtaining certification in these areas may do so in a post-baccalaureate program. You may contact the Educator Preparation Information Center (325-942-2209) for information and assistance.

Undergraduate Academic Regulations

Notice: The regulations are based upon present conditions and are subject to change without notice.

Student Responsibility

Each student is responsible for knowing the academic regulations in the University Catalog. Unfamiliarity with these regulations does not constitute a valid reason for failure to fulfill them. Eligibility to register at each registration period must be determined by the student. A student has the responsibility to register only in courses for which he or she is eligible. If a student registers in a course for which he or she is ineligible, the student may be administratively dropped without receiving any credit for work done.

General Information

The Academic Year. The college year consists of a long session and a summer session. The long session is divided into the fall semester and the spring semester, each approximately fifteen weeks long, including registration, holidays, and final examinations. The summer session is divided into two terms.

Semester Credit Hour. The semester credit hour (SCH) is the basic unit of credit. As a rule, one semester credit hour of academic credit is given for each lecture class hour per week for a fifteen week semester. In laboratory or studio situations, one semester credit hour normally is given for two to five contact hours per week for a fifteen week semester. During eight-week terms and summer sessions, the student earns semester credit hours for class contact hours which are essentially equivalent in number to those provided in the long semesters. Where semester hour is used in this Catalog, it is synonymous with semester credit hour (SCH).

Classification of an Undergraduate Student

A student is classified according to the number of semester hours successfully completed:

00-29	Freshman
30-59	Sophomore
60-89	Junior
90 or more	Senior

On the basis of semester credit hour load, a student is classified as part-time or full-time during the academic year. A full-time student is one who is enrolled for at least twelve semester credit hours during a semester. A part-time student is one who is enrolled for fewer than twelve semester credit hours during a semester. A full-time student during the Summer I term is one who is enrolled for six or more semester credit hours for that term. A full-time student during the Summer II term is one who is enrolled for six or more semester credit hours for that term. The part-time student is subject to the same academic regulations as the full-time student.

Student Participation in Testing and/or Evaluation and Assessment

The State of Texas mandates various testing programs for students attending public universities; and the Southern Association of Colleges and Schools Commission on Colleges, the collegiate accrediting body for post-secondary degree-granting institutions in Texas, requires that accredited institutions establish adequate procedures for evaluating the effectiveness of their instructional programs and the achievement of their educational goals. In carrying out these responsibilities, Angelo State University will require such testing of its students or conduct such other programs of evaluation as required by law or deemed necessary or appropriate at the sole discretion of the faculty and administration. Such tests or programs of evaluation will be initiated, implemented, or administered at any time without prior notice to or the approval of any student who is enrolled or who is planning to enroll in Angelo State University.

Many departments require that students complete a comprehensive examination of learning outcomes within their major prior to graduation. The results of this examination will become part of each student's record.

Texas Success Initiative (TSI)

Purpose. The Texas Success Initiative (TSI) was established by the State Legislature to assess the readiness of entering college students to enroll in college-level academic course work and to assist students who are not yet ready to enroll in that course work by providing advising and educational support necessary for college success. See ASU's TSI website for additional information.

Testing Requirements. Each undergraduate student, unless otherwise exempt, who enters a public institution of higher education will be tested for reading, writing, and mathematics skills prior to enrolling in any college-level academic course work. To satisfy this requirement, the student will be required to take the state-approved Texas Success Initiative Assessment (TSIA). High school students who are not exempt should take the TSIA as soon as they become eligible, preferably before they graduate from high school. A student who transfers to Angelo State University from a private or out-of-state institution must meet TSI requirements prior to enrolling in any college-level academic course work by 1) passing all sections of a TSIA; or 2) having earned a grade of "D" or better in an appropriate college-level course approved by Angelo State University.

Angelo State University will administer the TSIA on designated dates. Students who need to take the TSIA in order to become eligible to enroll in college-level academic courses must make arrangements for testing through ASU's Testing Center. Visit the Testing Center website.

A student who is not exempt and has not been tested for reading, writing, and mathematics skills prior to enrolling at Angelo State University may enroll in course work only under exceptional circumstances. The Coordinator of Developmental English in the Department of English and Modern Languages and the Coordinator of Developmental Mathematics in the Department of Mathematics will determine a TSI assessment waiver on a case-by-case basis.

TSI Exemptions. Exemption from TSI requirements will be granted to any student who:

I. Has achieved the minimum score on the tests specified below:

A. ACT - administered prior to February 15, 2023: a composite score of 23 with a minimum score of 19 on the English test shall be exempt for both the reading and writing sections of the TSI Assessment, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment;

ACT - administered on or after February 15, 2023: a combined score of 40 on the English and Reading (E+R) tests shall be exempt for both reading and writing or ELAR sections of the TSI Assessment. A score of 22 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. There is no composite score.

B. SAT - administered on or after March 5, 2016: A minimum score of 480 on the Evidence-Based Reading and Writing test shall be exempt for both TSI reading and writing. A minimum score of 530 on the Mathematics test shall be exempt for TSI math;

C. STAAR EOC - a minimum score of Level 2 on the English III STAAR EOC will exempt the student from the reading and writing sections of the TSIA, and/or a minimum score of Level 2 on the Algebra II STAAR EOC will exempt the student from the mathematics section of the TSIA.

For exemption purposes, test scores may be no more than five years old.

II. Has completed the coursework specified below:

A. Degree - an associate or baccalaureate degree awarded from an institution of higher education will exempt the student from the TSIA,

B. Transfer - satisfactory completion of college-level coursework as determined by Angelo State University from an accredited institution of higher education will exempt the student from the appropriate section of the TSIA,

C. Completion - satisfactory completion of readiness standards at any Texas institution of higher education will exempt the student from the appropriate section of the TSIA.

III. Has earned a military exemption:

A. Active Duty - active duty service as a member of the armed forces of the United States or the Texas National Guard will exempt the student from the TSIA,

B. Reserves - current service as a member of a reserve component of the armed forces of the United States combined with service for at least the three years preceding enrollment will exempt the student from the TSIA,

C. Prior Service - an honorable discharge, retirement, or release from active duty as a member of the armed forces of the United States, the Texas National Guard, or a reserve component of the armed forces of the United States occurring on or after August 1, 1990, will exempt the student from the TSIA.

Other students, including certain non-degree-seeking students, may be exempt from the TSIA. A student's exempt status will be determined by the appropriate Developmental Coordinator. Deferrals for students with extraordinary circumstances may also be granted by the appropriate Developmental Coordinator.

Passing Standards. The minimum passing standards for the three skill areas on the TSIA have been set by the Texas Higher Education Coordinating Board as follows: Mathematics—350; reading—351; Writing—essay score of 5, or an essay score of 4 with a multiple choice section score of 340. TSIA2 Mathematics—950 or a Diagnostic score of 6; TSIA2 ELAR—945 and essay score of 5, or Diagnostics score of 5 and essay score of 5. TSI scores are valid for five years from the date of testing.

Developmental Education. A student who is not exempt and scores less than the minimum passing standard in any skill area must successfully complete a pre-scribed developmental activity for that area to become TSI complete. Non-exempt students who do not meet the minimum standards will be placed in the appropriate developmental activity as determined by a holistic consideration of their back-ground and abilities by the appropriate Developmental Coordinator.

An Angelo State University student may satisfy TSI requirements in four ways:

- pass the TSIA in the appropriate skill area,
- pass the appropriate T-section of a college-level course,
- successfully complete non-course-based developmental activities as prescribed by the appropriate department,
- secure one of the TSI exemptions listed above.

Refer to the department sections of English and Modern Languages page 62 and/or Mathematics page 121 for a more detailed description of developmental programs for the various skill areas.

Learning Disabilities. Angelo State University considers all federal laws pertaining to individuals with disabilities when assessing and advising students who fail to meet the minimum passing standards of the TSIA.

Performance on the TSIA shall not be used as a condition for admission to Angelo State University or to any degree program the university offers.

All testing fees and costs for developmental activities are the responsibility of the student.

Name Change

Only a valid social security card will substantiate a legal name change for a student. A name change form and social security card must be submitted to the Office of the Registrar prior to the student's next registration. Registration under a name different from that used in the student's last enrollment cannot be accomplished without the above certification, which becomes a part of the student's permanent file. All grade reports and transcripts are issued under the student's legal name as recorded in the Office of the Registrar.

Numbering of Courses

The four-digit numbering system is based upon the following criteria: The level of the course is identified by the first number as follows: freshman, 1; sophomore, 2; junior, 3; senior, 4; and graduate, 5 and 6, with doctoral using 7. The semester credit hour value is identified by the second digit. The University and/or departmental codes are identified by the last two digits.

For an Angelo State University academic course which is equivalent to an academic course offered at a Texas state two-year college, the common course number assigned to the two-year colleges will be listed also. The Angelo State course number will be listed first followed by a slash, then the common course number. For example: Mathematics 1314 would be listed as 1314/1314.

In the portion of this Catalog dealing with curriculum and courses, descriptive titles of courses may be followed by two numbers in parentheses. The first number gives the number of lecture hours each week; the second gives the number of laboratory hours each week. For example, (3-2) indicates three hours of lecture and two hours of laboratory each week. Where three numbers appear, the last number refers to clinical supervision as in Nursing 3206 (1-0-3).

Maximum Course Loads

One Long Semester. A normal full course load for undergraduate students in a long semester is fifteen to eighteen semester credit hours. An undergraduate student with good academic standing (2.00 or better) may enroll for a maximum of eighteen semester credit hours. Students with a grade point average of 3.00 or better may be approved for a maximum of twenty semester credit hours by the appropriate college dean. Approval for course loads larger than the stated maximums may be given by the appropriate college dean only in exceptional situations and when the student has a grade point average of 3.50 or higher.

Summer Session. A student may enroll for six to seven semester credit hours for each summer term. The total load for the entire summer session shall not exceed fourteen semester credit hours, except that fifteen semester credit hours may be allowed for the graduating senior. Approval for course loads larger than the stated maximums for the summer session may be given by the appropriate college dean in exceptional circumstances only when the student has a grade point average of 3.50 or higher.

The stated maximum course loads for students enrolled at Angelo State apply to all courses in which the student is enrolled concurrently, whether in residence or elsewhere.

Penalty for Excessive Course Load. Any student who registers for more semester credit hours than is allowed by this policy during any semester or summer term shall be required to drop the excess course load at such time as the student course loads are audited by the University.

Excess Undergraduate Credit Hours Rule

Texas Education Code, Section 54.014 and 61.0595 (45-Hour Rule)

Purpose

This subchapter provides financial incentives for institutions to facilitate the progress of undergraduate students through their academic programs and incentives for students to complete their degree programs expeditiously.

Authority

Section 54.014 specifies the tuition that may be charged to students with excess hours. Section 61.0595 specifies the fundability of undergraduate credit hours.

Affected Students

- The limitation on funding of excess undergraduate credit hours applies only to hours generated by students who initially enroll as undergraduates in an institution of higher education in the 1999 fall semester or in a subsequent term. If a student has been enrolled as an undergraduate student in any public or private institution of higher education during any term prior to the 1999 fall semester, the student's credit hours are exempt.
- Hours generated by non-resident students paying tuition at the rate provided for Texas residents are subject to the same limitations as hours generated by resident students.

Limitation on Formula Funding

Funding of excess undergraduate credit hours is limited as follows:

I. Universities and health-related institutions may not submit for formula funding hours attempted by an undergraduate student who has previously attempted 45 or more semester credit hours or its quarter-hour equivalent beyond the minimum number of hours required for completion of the degree program in which the student is enrolled.

II. An undergraduate student at a four-year institution who is not enrolled in a degree program is considered to be enrolled in a degree program requiring a minimum of 120 semester credit hours.

III. Students who enroll on a temporary basis in a university or health-related institution and are also enrolled in a private or independent institution of higher education or an out-of-state institution of higher education are considered to be enrolled in a degree program requiring a minimum of 120 semester credit hours.

IV For the purposes of the undergraduate limit, an undergraduate student who has entered into a master's or professional degree program without first completing an undergraduate degree is considered no longer to be an undergraduate student after having completed the equivalent of a bachelor's degree or all of the course work normally taken during the first four years of undergraduate course work in the student's degree program.

V. For the purposes of the undergraduate limit, students are treated for funding purposes as having whatever major they had on the official census day of the term in question. If a student changes majors during a term, that act does not retroactively change his/her eligibility under the limit.

VI. The following types of credit hours are exempt and do not count toward the limit:

A. hours earned by the student before receiving a baccalaureate degree that has been previously awarded to the student;

B. hours earned through examination or similar method without registering for a course;

C. hours from remedial and developmental courses, technical courses, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree at the institution;

D. hours earned by the student at a private institution or an out-of-state institution; and

E. any hours not eligible for formula funding.

Tuition Charged to Affected Students

An institution of higher education may charge a higher tuition rate, not to exceed the rate charged to nonresident undergraduate students, to an undergraduate student whose hours can no longer be submitted for formula funding because of the funding limit defined in section 13.114 of this title (relating to Limitation on Formula Funding).

For further information, contact the Registrar's Office.

Senior-graduate Students

A senior-graduate is an Angelo State University undergraduate student currently pursuing an undergraduate degree and wishing to enroll in graduate coursework. An undergraduate student who has an overall 3.00 or better grade point average, has completed at least 100 semester credit hours of academic work toward a baccalaureate degree and submits an application for admission and a letter of intent may, with the approval of the Dean of the College of Graduate Studies and Research, be granted senior-graduate status. A senior-graduate status will allow a student to register for a maximum of six semester credit hours of graduate-level work during the Fall or Spring semesters provided the maximum semester enrollment does not exceed 18 hours. A student may also enroll for three semester credit hours of graduate level work in a Summer term provided the maximum enrollment does not exceed seven semester credit hours. The total number of graduate semester credit hours taken as a senior-graduate may not exceed 15. No course used on the degree plan toward a baccalaureate degree may be used also on a graduate degree plan. Senior-graduate students are eligible for integrated baccalaureate-master's degree scheduling if their major departments offer such plans. To continue graduate studies, the individual must re-apply for admission and submit all documents required by the program.

Credit by Examination

Undergraduate students seeking their first baccalaureate degree may earn credit by examination at Angelo State University in a variety of fields. Selected College Level Examination Program (CLEP) General Examinations and Subject Examinations as well as local examinations are administered regularly in the University Credit by Examination Program.

Students who submit ACT or SAT scores to the University for admission purposes are eligible for credit in selected courses if 1) their test scores are high enough to qualify for credit, 2) they enroll at Angelo State University, 3) they satisfactorily complete a fall or spring semester and pass the applicable section of a Texas Success Initiative Assessment test (TSIA).

Credit by examination may also be earned through the Defense Activity for Non-Traditional Education Support (DANTES) Subject Standardized Tests (DSST exams). Score reports submitted for DSST exams that have not been approved will be sent to the dean for evaluation by the appropriate departments.

All examinations in the Credit by Examination Program are available throughout the year with the exception of the ACT, SAT, and some local examinations which have separate established schedules. CLEP examinations are given by appointment.

Advanced registration is required for CLEP examinations. Candidates must register through the Testing Center at least four weeks prior to the administration date.

Fees are charged for all examinations to cover costs of administration, test materials, scoring, and program development. Information on local examination fees, CLEP examination fees, and registration fees may be found online at the Testing Center website.

An individual who does not plan to register at Angelo State University and wishes to have scores forwarded to another institution must take a CLEP examination which is scored by the Educational Testing Service. ETS forwards the score to the designated institution. Since each college or university determines how it will use the CLEP examinations to award credit, individuals are urged to investigate the policies of the institution to which they plan to submit their scores. Information concerning the tests the institution recognizes, the required scores, essay requirements, and other conditions affecting the awarding of credit should be obtained from the institution prior to registering for any CLEP examination.

Students may also earn credit for specified Angelo State University courses by successful completion of Advanced Placement Examinations administered by the College Board in participating high schools. A score of 3 or higher is required to receive credit. The same policy guidelines apply to these examinations as they do to other tests in the credit by examination program.

The credit by examination program at Angelo State University is subject to the following policy guidelines.

- A student may take examinations for credit and have scores submitted to the Office of the Registrar at Angelo State University. However, credit by examination will not be entered on the permanent record until the student has successfully completed a semester or summer term of academic work at Angelo State University. Information about scores required for credit on specific examinations may be obtained from the Office of the Registrar.
- To receive credit by examination, a student must pass the appropriate examination with a score that qualifies for credit. If a student receives credit by examination for a course and that credit is entered on the student's permanent record, the student cannot at a later date decide that the credit is no longer desired and have the course removed from the student's transcript. However, a student may repeat a course for which credit by examination was earned by enrolling in a regularly scheduled class and earning a grade for the course which would replace the credit earned by examination.
- Prior to registering for a CLEP examination or local examination, Angelo State University students must obtain the approval of the dean of the college in which they are majoring. Once students have registered for the CLEP exam, they will

have two months (60 days) in which to take the exam. Normally, students are permitted to receive credit by examination for courses except when they have completed advanced level work in a particular field and are seeking additional lower-division credit in the same field.

- A student is not allowed to earn credit by examination for any course in which the student has a grade of "A", "B", "C", "D", "F", "I", "P", "CR", "NC", or "AU". Credit by examination may not be earned for a course which is prerequisite to another course in the same discipline for which the student has already earned credit. When such lower-division courses are required in a student's degree plan, the student is encouraged to seek a modification in the degree plan, substituting an advanced-level course for the lower-division course.

Credit earned by examination may not be used to reduce the residence requirements in any degree program.

None of the examinations in the University's Credit by Examination Program may be taken more than one time in a six-month period.

Source Note: Angelo State University Operating Policy 10.08. . Approved October 14, 2021.

ACT and SAT. Students scoring 29-31 on the English section of the ACT will receive credit for English 1301; 32 or above will receive credit for English 1301 and English 1302. Students scoring 28 or above on the Mathematics section will receive three semester credit hours in Mathematics 1314. Students scoring 29 or above on the Science Reasoning section will receive three semester credit hours in Physical Science (core equivalent, non-advanced credit).

Students scoring 34-36 on the SAT Reading Test will receive credit for English 1301; 37 or above on the SAT Reading Test will receive credit for English 1301 and 1302. Those scoring 650 or above on the Mathematics section of the SAT will receive three semester credit hours in Mathematics 1314.

Students who earn core equivalent, non-advanced credit in physical science on the basis of ACT scores cannot use this credit for fulfilling major, minor, or certification requirements. Any student eligible to receive credit based on ACT or SAT scores must have these scores on file in the Office of Admissions prior to the last day of the first semester enrolled. It is the student's responsibility to provide ACT or SAT scores to the Office of Admissions. **Test scores cannot be older than five years.** The credit will be awarded to the student in the first semester of enrollment. Credit will not be awarded after the student's first semester at Angelo State University.

Credit by examination may be earned for the following courses. Credit by examination also may be earned for other University courses with the permission of the Provost and Vice President for Academic Affairs.

Angelo State University

Course and Number	Examination	Hours
Accounting 2301	CLEP Financial Accounting	3
Art NENA	DSST Art of the Western World	3
Biology NENA	DSST Environmental Science	3
Biology 1308/1108, 1309/1109	CLEP Biology	8
Business 1301	DSST Introduction to Business	3
Business 3301	CLEP Introductory Business Law	3
Chemistry 1305/1105, 1311/1111, 1312/1112	CLEP Chemistry	4-8
Criminal Justice NENA *	DSST Introduction to Law Enforcement	3
Criminal Justice 1301	DSST Criminal Justice	3
Economics 2301	CLEP Principles of Macroeconomics	3
Economics 2302	CLEP Principles of Microeconomics	3
Economics 3360	DSST Money and Banking	3
English 1301	ACT English section or SAT verbal section	3
English 1301, 1302	ACT English section or SAT verbal section or CLEP College Composition	6
English 1302	DSST Principles of Advanced English Composition	3
English 2311	DSST Technical Writing	3
English 2321 + SLIT	CLEP English Literature	6
English 2326 + SLIT	CLEP American Literature	6
Finance 3361	DSST Principles of Finance	3
Finance 3362	DSST Personal Finance	3
French 1301, 1302, 2311	CLEP College French Language	6-9
Geography NENA *	DSST Introduction to Geography	3
Geology 1303	DSST Introduction to Geology	3
German 1301, 1302, 2311	CLEP College German Language	6-9
History NENA *	DSST A History of the Vietnam War	3
History 1301	CLEP History of the United States I	3
History 1302	CLEP History of the United States II	3
History 2311	CLEP Western Civilization I	3
History 2312	CLEP Western Civilization II	3
History 3342	DSST The Civil War and Reconstruction	3

(continued on next page)

* Core-equivalent/non-equivalent, non-advanced criminal justice, geography, history, management, or physical science credit earned by passing one of these examinations will not be used for fulfilling major, minor, or certification requirements.

(continued from previous page)

Angelo State University

Course and Number	Examination	Hours
Management NENA *	DSST Ethics in America	3
	DSST Human Resource Management.	3
	DSST Organizational Behavior	3
	DSST Principles of Supervision	3
Management 3301	CLEP Principles of Management	3
Management 3343	CLEP Information Systems	3
	DSST Management Information Systems	3
Management 4302	DSST Business Ethics and Society	3
Marketing 3321	CLEP Principles of Marketing	3
Mathematics NENA	DSST Business Mathematics	3
	DSST Fundamentals of College Algebra	3
	DSST Mathematics for Liberal Arts	3
Mathematics 1314	ACT Mathematics Usage section or SAT Quantitative section or CLEP College Algebra	3
Mathematics 1332	CLEP College Mathematics	3
Mathematics 1342	DSST Principles of Statistics	3
Mathematics 2312	CLEP Precalculus	3
Mathematics 2413	CLEP Calculus	4
Physical Science CENA and Biology CENA *	ACT Natural Sciences section or CLEP Natural Sciences (General Examination)	6
Physics 1303	DSST Astronomy	3
Political Science 2305 **	CLEP American Government	3
Psychology NENA	DSST Fundamentals of Counseling	3
Psychology 2301	CLEP Introductory Psychology	3
Psychology 2304	CLEP Human Growth and Development	3
	DSST Lifespan Developmental Psychology	3
Psychology 4319	DSST Substance Abuse	3
Sociology 1301	CLEP Introductory Sociology	3
Spanish 1301, 1302, 2311	CLEP College Spanish Language	6-9
Spanish 1301, 1302, 2311, 2312	CLEP College Spanish with Writing	6

CLEP General Examinations. CLEP General Examination scores may be submitted for consideration for credit by individuals who have fewer than 30 semester credit hours, and in the examination areas in which they have not earned semester credit hours.

First-year students at Angelo State University who desire to take a CLEP General Examination for credit should determine with the dean of the college in which they are majoring that they are eligible for the credit sought prior to registering for the examination. Eligibility will be determined according to the courses for which the student has earned credit during the first year.

* Core-equivalent/non-equivalent, non-advanced criminal justice, geography, history, management, or physical science credit earned by passing one of these examinations will not be used for fulfilling major, minor, or certification requirements.

** The student who successfully completes the examination in political science must also successfully complete one of the following courses in order to graduate: Political Science 2306, 3303, 4301, 4302.

International Baccalaureate Program

Angelo State University recognizes the International Baccalaureate (IB) Program. Students may receive credit if one of the following options apply:

Option 1: Angelo State University will award at least 24 semester hours of course specific credit in subject appropriate areas on all International Baccalaureate exam scores of 4 or above as long as the incoming freshman has earned an IB Diploma. The student must supply an official transcript indicating that the IB Diploma has been earned before any credit may be awarded. The credits are transferred, but not the grade. Credit earned in this manner may not be used to reduce the residence requirements in any degree program. Course credit will not be awarded on any IB exams where the score is a 3 or less. This may mean that the student will not receive 24 hours of college credit, even if he/she has an IB Diploma.

Option 2: If a student does not earn an IB Diploma, credit may be granted according to the following table. An official IB examination transcript must be sent to Angelo State University to receive credit. Credit earned in this manner may not be used to reduce the residence requirements in any degree program.

Discipline	Hours	Course(s)	Exam
Biology	4	BIOL 1306/1106	5/6/7 HL; 6/7 SL
Business and Management	3	BUSI 1301	5/6/7 HL
Chemistry	4 8	CHEM 1311/1111 CHEM 1311/1111, 1312/1112	6 HL 7 HL
Economics	6	ECON 2301, ECON 2302	4-7 HL; 5-7 SL
English	6	ENGL 1301, ENGL 1302	6/7 HL
Geography	3	GEOG NENA	5/6/7 HL
History	6	HIST 2311, HIST 2312	5/6/7 HL
Mathematics	4 8	MATH 2413 MATH 2413, MATH 2414	5 HL 6/7 HL
Modern Languages	12	FREN 1301, 1302, 2311, 2312 GER 1301,1302, 2311, 2312 RUSS 1301, 1302, 2311, 2312 SPAN 1301, 1302, 2311, 2312	5/6/7 HL
Philosophy	3	PHIL 1301	5/6/7 HL
Physics	8	PHYS 1301/1101, PHYS 1302/1102	6/7 HL
Psychology	3	PSY 2301	5/6/7 HL

HL = Higher Level Exam
SL = Standard Level Exam

College Board Advanced Placement Tests

Students may earn credit for the following Angelo State University courses by successful completion of Advanced Placement examinations administered by the College Board in participating high schools. A score of 3 or higher is required to receive credit. The same policy guidelines apply to these examinations as to other tests in the credit by examination program.

Angelo State University Course and Number	Examination	Hours
Arts 1303, 1304 *	Art History	3-6
Arts 1311	2-D Art and Design	3
Arts 1312	3-D Art and Design	3
Arts 1316	Drawing	3
Biology 1308/1108, 1309/1109	Biology	8
Biology NENA **	Environmental Science	3
Chemistry 1311/1111, 1312/1112	Chemistry	4-8
Computer Science 1315	Computer Science Principles	3
Computer Science 1351	Computer Science	3
Economics 2301	Macroeconomics	3
Economics 2302	Microeconomics	3
English 1301, 1302	Language and Composition	6
English 1301, 2329	Literature and Composition	6
French 1301, 1302, 2311, 2312	French Language and Culture	12
Geography NENA **	Human Geography	3
German 1301, 1302, 2311, 2312	German Language and Culture	12
History 1301, 1302	United States History	6
History 2312	European History	3
History 2322	World History Modern	3
Mathematics 1342	Statistics	3
Mathematics 2412	Precalculus	4
Mathematics 2413	Calculus AB	4
Mathematics 2413, 2414	Calculus BC	8
Music 1211	AP Music Theory	2
Physics 1301/1101	Physics 1	4
Physics 1302/1102	Physics 2	4
Physics 2325/2125	Physics C - Mechanics	4
Physics 2326/2126	Physics C - Electricity & Magnetism	4
Political Science 2305	U.S. Government and Politics	3
Psychology 2301	Psychology	3
Spanish 1301, 1302, 2311, 2312	Spanish Language and Culture	12
Spanish NENA **	Spanish Literature and Culture	3

* Courses for which credit will be earned are determined by the Department of Visual and Performing Arts.

** Non-equivalent, non-advanced credit earned by passing this examination will be used as elective credit.

Texas International Education Consortium, Inc.

Angelo State University is a member of the Texas International Education Consortium, Inc. (TIEC) which coordinates international education in Texas for institutions of higher education. TIEC engages in separate and joint pursuit of international education exchange and aids institutions of higher education in Texas in building better international education programs for students, faculty, visitors, and participants of other nations.

Credit for Correspondence and Extension

Correspondence and extension courses are available for undergraduate students who are unable to enroll in residence courses. A student may transfer to the University from an accredited institution a total of thirty semester credit hours of undergraduate extension and correspondence work, of which no more than eighteen may be earned through correspondence.

An undergraduate student who is enrolled at Angelo State University and wishes to enroll concurrently at another institution for correspondence work must obtain approval from the appropriate academic dean if that credit is to apply toward an Angelo State University degree. In some cases, academic departments may designate courses in their degree programs which cannot be taken by correspondence because of lack of equivalency. Academic deans may not grant approval to take these designated courses by correspondence.

Students are discouraged from taking correspondence courses in the registration period in which they plan to graduate. If a student plans to use a correspondence course toward graduation or certification requirements, the student should plan ahead so that all work, including examinations, will be completed and official transcripts are received by Angelo State University at least three weeks prior to graduation. No correspondence course will be approved after the beginning of the semester in which the student plans to graduate.

Students may not repeat by correspondence any course in which a “D” or “F” has been earned at Angelo State University.

Maximum course load limits apply to all courses attempted by the student who is enrolled at Angelo State, whether those courses are attempted at Angelo State or elsewhere.

Students must complete any approved correspondence courses within twelve months of the date of approval by the appropriate academic dean.

Experiential Learning

Angelo State University does not award credit for non-academic experiences nor allow the use of experiential training toward a degree.

Enrollment Without Credit

A person who is approved for admission and who wishes to audit a course for no grade must obtain the permission of the chair of the department in which the course is offered, register for the course, and pay the appropriate tuition and fees.

The terms and conditions under which a student may participate in various aspects of the class shall be determined by and is subject to the approval of the faculty member conducting the class.

The student who audits a course does not enjoy the privilege of submitting papers or of receiving grades or credit for the course. However, the name of the student who audits a class does appear on the class roll with an Audit (AU) notation, and the audited course also is listed on the student's permanent record with an Audit designation.

Any student auditing a class who is disruptive or otherwise distracts from the learning environment of the class may be dropped from the course.

With the approval of the chair of the appropriate academic department, a senior citizen who is 65 years of age or older may be allowed to audit certain courses offered by the University without payment of tuition or fees if space is available.

Information and paperwork may be obtained through the Registrar's Office.

System of Grading

At the end of each semester and summer term, final grades are available to all students via the RamPort Web system.

The following grades are used with the grade point value per semester credit hour.

Grade Marks	Quality Grade Meaning	Grade Points
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
I	Incomplete	not counted
P	Pass	not counted
W	Withdrew	not counted
QW	Withdrew - TEC 51.907	not counted
AU	Audit	not counted
CR	Credit	not counted
NC	No Credit	not counted
NP	No Progress on Thesis	not counted
PR	Progress on Thesis	not counted

1. The grade "I" is given when the student is unable to complete the course because of illness or personal misfortune. An "I" that is not removed before the end of the next long semester automatically becomes an "F". A graduate student will be allowed one year to remove a grade of "I" before it automatically becomes an "F". To graduate from ASU, a student must complete all "I"'s.
2. The grade "PR" is given only to a student registered in Thesis 6099, 6399 or 6699 who, during the semester, makes satisfactory progress, but does not complete the thesis project.
3. The grade "NP" is given only to a student registered in Thesis 6099, 6399 or 6699 who, during the semester, does not make satisfactory progress on the thesis.
4. To determine the grade point average, the total number of quality hours is divided into the total number of quality points received.
5. Quality hours are defined as hours for which a student registers and receives a grade of either "A", "B", "C", "D", or "F".
6. A course may be repeated without accumulating additional quality hours. For example, a student who receives a grade of "F" or "D" in a course and then repeats the course and receives a grade of "C" will have three quality hours with six quality points awarded. However, a course may not be repeated which is part of a degree that has already been conferred.
7. The grade of "CR" is assigned only for credit earned by examination for a course in which the student does not actually enroll.
8. The grade of "P" is assigned only to courses designated in the Catalog as Pass/Fail courses.
9. The grade of "D" is not given in graduate courses.

A student earns quality (grade) points on the basis of the last grade (except for "AU", "CR"," I", "NC", "NP", "P", "W", or "PR") received in a course at ASU. Additional credit for a repeated course may not be awarded except as provided specifically in the course description.

NOTE: The student should be advised that professional schools and Texas graduate schools may compute the cumulative grade point average by including all courses taken, including those with repeated grades.

Dropping Courses. Courses may be dropped during the registration period and no grade will be assigned. Such courses will not be listed on the student's permanent record. A student withdrawing from a course after the registration period, but prior to the deadline published in the university's calendar will receive a "W" or "QW" grade in the course. Ceasing to attend class does not constitute a formal course drop, and failure to drop a course properly will result in a failing grade in the course.

Source Note: Angelo State University Operating Policy 10.11. . Approved May 31, 2022.

Graduate Program

A grade point average of 3.00 or better on all graduate work completed on this campus is required for graduation. No course with a grade below "C" may be applied toward a master's degree. Graduate students should note that a grade of "I" not removed within one year automatically becomes an "F".

Angelo State University's grade grievance policy is governed by Operating Policy 10.03 and may be found on the Operating Policy and Procedures website.

Grade Grievance

I. Grade Grievances

The assignment of a grade in a course is the responsibility of the faculty member and is based on the professional judgment of the faculty member. Except for issues of computation, discrimination, equal treatment, or reasonable accommodation when a documented student need is present in accordance with the Americans with Disabilities Act of 1990 (ADA) guidelines, the faculty member's grade determination is final.

II. Initiating a Grievance with the Faculty Member

Students having a grievance concerning a grade in a course of study should make every attempt to resolve the issue with the faculty member who has assigned the grade. Faculty members should listen to the concerns of the student, discuss and, if appropriate, negotiate resolution of the grade assigned to the student.

III. Appeal to the Department Chair or High School Principal (Off-Site Dual Credit)

A. Should a student be unable to resolve the grievance with the faculty member (either because no resolution was reached with the faculty member or because the faculty member is on leave or not returning to the university), the student may file a written appeal to the department chair. Off-site dual credit students may file a written appeal to their high school principal.

B. If the faculty member in question is the department chair or high school principal, the student should request that the dean of the college appoint a faculty committee to review the grievance.

C. If the faculty member in question is the dean of the college, the department chair or high school principal will still be the second level of appeal. If the dean is also the department chair, the student may request the provost and vice president for academic affairs to appoint a faculty committee to review the grievance.

D. The student must present a written statement and provide compelling evidence (examinations, papers, etc.) that demonstrate why the grade should be changed. If evidence is not available, the student should explain that in the written statement.

E. This written grievance must be presented no later than 30 days from the beginning of the next semester following the semester or term when the grade was assigned as long as the faculty member assigning the grade is on campus that semester or summer term.

F. If the faculty member assigning the grade is not on campus that following semester or term, but will be teaching on campus within the next three months, the complaint may wait until 30 days into the first semester the faculty member returns to campus.

G. The department chair (or a committee appointed by the department chair or dean) or high school principal will review the grievance and present a written decision to the student and the faculty member within 45 days of the beginning of the semester.

H. Either the faculty member or the student may appeal the decision rendered at this level.

I. The department chair shall forward a written record of all grade grievances inclusive of the outcome, resolution and the resolution date to the provost and vice president for academic affairs to be reviewed annually.

IV. Appeal to the College

A. If the student or the faculty member wishes to pursue the grievance further, the student (or faculty member) must present the written request to the dean of the college in which the course is taught within 30 days of the departmental decision. This procedure is to be followed even if the dean of the college is the faculty member in question.

B. The dean will appoint an ad hoc grievance committee from the college to review the case. If the dean of the college is the faculty member in question, one of the deans from the other colleges of the university will appoint a faculty committee (consisting of tenured faculty) from the college in which the course is taught to serve as the ad hoc committee. One member of the ad hoc committee will be from the department where the disputed grade originated.

C. The committee will be provided the student's written statement and evidence as well as the written report of the department chair and faculty member.

D. The committee may conduct a hearing where the student and the faculty member may present information about the grievance.

E. The committee will issue a written decision on the grievance to the dean of the college with copies to the student and faculty member.

F. The decision of the committee is final, and there is no further appeal through university channels.

G. The college dean shall forward a written record of all grade grievances within the college inclusive of the outcome, resolution and the resolution date to the provost and vice president for academic affairs to be reviewed annually.

Source Note: Angelo State University Operating Policy 10.03. . Approved March 16, 2022.

Academic Honesty

The University expects all students to engage in all academic pursuits in a manner that is beyond reproach. Students will be expected to maintain complete honesty and integrity in their experiences in the classroom. Any student found guilty of any form of dishonesty in academic work is subject to disciplinary action.

Procedures for discipline due to academic dishonesty have been adopted by the Board of Regents and are published under the Section on Student Services and Activities in the University's Student Handbook.

Schedule Changes

Adding Courses. Prior to the beginning of the semester and during the first four days of a Fall or Spring semester (or the first two days of a Summer session), students may add classes using the online self-service registration system. Students who need assistance with this process may come to the Office of the Registrar.

Dropping Courses. Prior to the beginning of the semester and during the first four days of a Fall or Spring semester (or the first two days of a Summer session), students may drop classes using the online self-service registration system. Afterward, the online registration system is disabled and the students must complete and submit a Course Drop Request Form found in the student's RamPort. The student will receive an email that the request is being processed and should monitor their ASU email for possible further communications to include a completed status. Courses dropped during the registration period and prior to the census day of the course will not appear on the student's permanent record, will not receive a grade, and will not be subject to the requirements of the TEC 51.907 policy.

A student dropping a course after the census day of the course, but prior to the deadline published in the University calendar, will receive a non-punitive "W" or "QW" grade in the course (See TEC 51.907 Policy below). Ceasing to attend class does not constitute a formal course drop, and failure to drop a course properly will result in a failing grade in the course. Refer to the current schedule changes, course drop, and withdrawal information on the Registrar's Schedule Changes webpage for a complete description of the process.

TEC 51.907 Course Drop Limit Provisions

Students who enroll as entering freshmen or first-time in college students in undergraduate courses offered through an affected institution of higher education for the first time during the Fall 2007 semester or any subsequent semester are subject to the course drop limit of six course drops including any course a transfer student has dropped at another affected institution.

Institutions Affected

Texas public community colleges, technical institutes/colleges, health science institutions offering undergraduate course work, and universities must comply with the legislation of TEC 51.907.

Students Affected

Students who enroll as entering freshmen or first-time in college students in undergraduate courses offered through an affected institution of higher education for the first time during the Fall 2007 semester or any subsequent semester are subject to the course drop limit restrictions. Transfer students who first enrolled at a Texas public institution during the Fall 2007 semester or subsequent semester are considered first time in college and are affected by the six course drop limit. Students who elect to use the provisions of Academic Fresh Start who have coursework prior to the Fall 2007 semester are grandfathered and are not subject to TEC 51.907. Students who have completed a baccalaureate degree at any recognized public or private institution are not considered affected students whether or not taking additional undergraduate courses.

Course Drop Definition

A course drop, which will be recorded on the transcript, is defined as an affected credit course not completed by an undergraduate student who: is enrolled in the course at the official date of record (see note below), and will receive a non-punitive grade of "W" or "QW".

NOTE: Date of Record varies according to the length of the course. The most common course lengths are listed below. For the date of record for all other course lengths, please contact the Office of the Registrar.

Course Length	Date of Record
3 week course	2nd class day
5 or 6 week course	4th class day
8 week course	6th class day
16 week course	12th class day

Other Factors Regarding Course Drop Limit

Transfer students who are affected by this legislation shall be required to submit all transfer institution transcripts for processing of the transfer course drops which apply to the limit prior to being allowed to utilize any drops at Angelo State University. If the transfer transcript does not indicate any drops toward the limit, Angelo State University will set the drop count for that institution at zero.

If a student was granted a drop at Angelo State University and the Registrar's Office later learns that the drop counter was set incorrectly, the Registrar's Office will update the student's record to correct the counter. If the student has exceeded the six course drop limit, the drop will be removed and the faculty member of the associated course will be contacted to issue the appropriate grade.

Withdrawal Definition

A student is considered to have withdrawn from the institution when the student drops all courses during the semester.

Excluded Courses From Limit

Drops from the following types of courses are excluded from the course drop limit:

- Courses taken by students while enrolled in high school—whether for dual credit, early college credit, or for college credit alone.
- Courses dropped at private or out-of-state institutions.
- Developmental courses, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree.
- Aerospace Studies courses not eligible for formula funding.
- Courses taken as required corequisites such as a lecture class with a required laboratory are counted as one drop whether or not identified as separate courses or as separate sections of a course.
- Courses which meet the definition of complete withdrawal.

Request for Course Drop Exemption Process

Students who feel that a drop should be exempt from the drop limit must complete the Request for Drop Exemption form and provide appropriate documentation to the Registrar's Office by the end of the term of the course in question. Students may request an exemption for any drop which meets good cause definition.

Exception and documentation requirements:

- Severe illness or other debilitating condition: Statement from doctor.
- Care of a sick, injured or needy person: Statement from doctor regarding illness of the person being cared for. Statement from the sick, injured, or needy person regarding the student's role as the care-giver or in case of a child, statement from the student.
- Death of family member or another person who is otherwise considered to have a sufficiently close relationship: Death certificate or obituary from newspaper.
- Active duty service with the Texas National guard or other armed forces by the student, a family member, or a person who has a sufficiently close relationship: Orders from service.
- Change in work schedule that is beyond the control of the student: Letter from employer.
- Other good cause as determined by the institution.

For the purposes of this section, please see the following definitions:

- Family members — spouse, child, grandchild, father, mother, brother, sister, grandmother, grandfather, aunt, uncle, nephew, niece, first cousin, step-parent, step-child, or step-sibling.
- Sufficiently close relationship — this relationship can include a relative with the third degree of consanguinity plus close friends including but not limited to roommates, housemates, classmates, or others identified by the student for approval of the institution on a case-by-case basis.

Once the student has submitted the required documentation, the Registrar's Office will review and determine if the request is granted. The Registrar's Office will notify the student of its decision. If the request is granted, the Registrar's Office will update the student's record.

Student Appeal Process

Students who do not agree with the decision of the Registrar's Office may appeal the decision to the academic dean of their major. Students must provide a written request with copies of documentation for the Dean's review within 30 days of the decision of the Registrar's Office. If the Dean grants the appeal, the Dean's office will notify the Registrar in writing. Upon receipt of written notification, the Registrar's Office will update the student's record. The decision of the Dean is final.

Withdrawal from the University

Students must complete and submit the Student Withdrawal Form in RamPort by the appropriate deadline. All deadlines for withdrawing refer to the close of business, which is 5:00 pm Central Time. Refer to the University calendar to determine the last day (deadline) on which a student may withdraw from the University. See the University Calendar website. The student will receive an email that the request is being processed and should continue to monitor their ASU email for possible further communications to include the completed status. The student who fails to withdraw officially will receive a grade of "F" in all courses in progress. A student who withdraws from the University is exempt from the TEC 51.907 policy.

Separation from the University

All students separated from the University after the official census date for disciplinary reasons will be awarded a grade of "W" for each class in which they are enrolled at the time the disciplinary action is taken.

Academic Regulations Concerning Student Performance

I. Minimum Academic Performance

Certain principles have been utilized in developing the regulations governing eligibility to reregister, suspension by the academic dean, and reinstatement following suspension. These principles include:

A. The university's belief that, as long as its resources permit, each student, once admitted, should be given opportunity to demonstrate the ability to perform acceptable work;
B. The belief that the early assumption of responsibility for one's own actions is part of the educational process;
C. The belief that the university has particular obligations to the able student;
D. The recognition that discouragement and mistakes are more likely to occur during the early stages of one's college career than in later semesters; and
E. The belief that academic suspension is not designed as punishment, but is based on the principle that a student should remain eligible for academic work on campus as long as satisfactory progress is being made, within reasonable time, toward the completion of an academic program. When such progress is unsatisfactory, the student is given time to reconsider goals and career plans outside the academic setting.

II. Minimum Academic Requirements

An overall 2.00 grade point average (C average) on all college-level work and a 2.00 grade point average (C average) for studies at this institution are required for graduation from Angelo State University. All degree programs require an overall 2.00 grade point average in the student's major field and a 2.00 grade point average in the major field in residence. All degree programs leading to teacher certification have requirements beyond the minimum identified above. Official grade point averages are not rounded up. A student who meets minimum academic requirements is in good academic standing and eligible for all extracurricular activities, as governed by the rules of the specific activity. Some academic and extracurricular programs have requirements over and above the respective minimum requirements by major.

III. Student's Academic Responsibility

All students are responsible for knowing their academic status and eligibility to re-enroll in the university. If it is determined that an ineligible student has enrolled, the student will be dropped immediately. For official verification of academic status, a student should consult the academic dean.

IV. Class Attendance

Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is expected, and the university reserves the right to deal at any time with individual cases of non-attendance. An accurate record of attendance for each student must be maintained by the instructor.

The instructor determines the effect of absences on grades consistent with university policy for excused and unexcused absences. When absences jeopardize a student's standing in a class, it is the responsibility of the instructor to report that fact to the students dean. Excessive absences constitute cause for dropping a student from class. The drop may be initiated by the instructor but must be formally executed by the academic dean and follow university procedures and dates for withdrawing from a course.

Department chairpersons, directors, or others responsible for a student representing the university on officially approved trips must notify the student's instructors of the departure and return schedules. The instructor so notified must not penalize the student, although the student is responsible for material missed. Any student absent because of university business must be allowed to make up missed work within 2-4 days of returning from the university sponsored trip or have alternate grades substituted for work due to an excused absence. Students absent because of university business must be given the same privileges as other students; e.g., if other students are given the choice of dropping one of four tests, then students with excused absences must be given the same privilege.

If a dispute arises between an instructor and a student over absences which cannot be resolved, the student should discuss the problem with the instructor. If the issue cannot be satisfactorily resolved, the student may appeal to the instructor's department chair, academic dean, provost and vice president for academic affairs, and ultimately to the president of the university.

V. Additional Regulations

Individual colleges may have regulations in addition to those described in this policy. Students should check with their respective deans for information and requirements for specific colleges.

Source Note: Angelo State University Operating Policy 10.04. . Approved November 17, 2020.

Undergraduate Academic Status

Undergraduate Academic Status at Angelo State University is governed by Operating Policy 10.07 and may be found on the Operating Policy and Procedures website. Academic standing is based solely on institutional GPA. A statement on the transcript legend denotes this policy change.

Good Standing, Probation, and Suspension

Angelo State University has three possible academic status levels for students:

I. Academic Good Standing

All degree programs require an overall 2.00 grade point average in the student's major field and a 2.00 grade point average in the major field in residence. Some degree programs have requirements beyond the minimum identified above. A student who meets minimum academic requirements is in good academic standing and eligible for all extracurricular activities, as governed by the rules of the specific activity. Some academic and extracurricular programs have requirements over and above the respective minimum requirements by major.

II. Academic Probation

A. Policies Governing Academic Probation

Academic probation is an emphatic warning that the quality of the student's work has not met Angelo State University's minimum academic standards and that the quality must improve during the probationary period in order for the student to continue at Angelo State University. A student will be placed on academic probation at the end of the fall or spring semester in which the Angelo State University GPA is less than 2.00. A student will be removed from academic probation at the end of any long semester or summer term if the Angelo State University GPA is 2.00 or higher.

Students placed on academic probation are given two probationary semesters (fall or spring terms) to raise their Angelo State University GPA to 2.00. For example, if a student is placed on academic probation because the Angelo State University GPA has fallen to 1.85, then at the end of the two following probationary semesters the Angelo State University GPA must be 2.00 or higher, or the student will be placed on First Academic Suspension. Students with an Angelo State University GPA of 0.00 after two long semesters will be placed on First Academic Suspension. Grades earned in coursework in which neither hours nor grades are calculated toward the GPA will not affect a student's academic standing.

See section III below for information regarding appeals of a First Academic Suspension.

B. **Readmissions Following Academic Probation**
If a student chooses to leave the university for at least one long term, the student must apply for readmission. Re-enrolling students who have taken courses at another college or university must meet Angelo State University's transfer requirements for readmission. Students who last attended the university while on academic probation must complete their admission application seven (7) business days prior to the semester for which the student is applying. Admitted students will be placed on academic probation.

III. Academic Suspension

A. **Policies Governing First Academic Suspension**
A first academic suspension will be for the first long semester following placement on First Academic Suspension.

B. **Readmission Following a First Academic Suspension**
At the end of one long semester period for a First Academic Suspension, students can apply for readmission to Angelo State University for the subsequent semester. Re-enrolling students who have taken courses at another college or university must meet Angelo State University's transfer requirements for readmission. Readmission applications must be completed seven (7) business days prior to the semester for which the student is applying. Students who re-enter Angelo State University following an academic suspension do so on academic probation. For specific regulations, refer to paragraph on "Academic Probation". If the Angelo State University GPA is less than 2.00 at the end of the second probationary semester, the student will be placed on second academic suspension. See section V below for information regarding appeals of a Second Academic Suspension.

C. **Policies Governing Second Academic Suspension**
Students who fail to meet the minimum academic standards defined above will receive a Second Academic Suspension for a period of one calendar year. If there are extenuating circumstances as defined below, students can appeal following the appeals process outlined below. If the appeal is approved, students may return to Angelo State University on academic probation, subject to special conditions imposed by the dean regarding course load limits, work load limits, counseling, etc.

D. **Readmission Following a Second Academic Suspension**
At the end of the one-year period for a second academic suspension, students may apply for re-admission to Angelo State University. Students whose suspension period has passed and who meet all the requirements for readmission may re-enroll on academic probation. Re-enrolling students who have taken courses at another college or university must meet Angelo State University's transfer requirements for readmission. All re-enrolling students must apply for admission via the Angelo State University's policy.

E. **Third Academic Suspension**
If, at the end of the second probationary semester of a student's second academic suspension, the Angelo State University GPA is less than 2.00 the student will be placed on a third academic suspension. Students may not apply for readmission for a period of two calendar years. Students whose suspension period has passed and who meet all the requirements for readmission may re-enroll on academic probation. Re-enrolling students who have taken courses at another college or university must meet Angelo State University's transfer requirements for readmission. All re-enrolling students must apply for admission via the Angelo State University's policy.

F. **Indefinite Suspension**
If, at the end of the second probationary semester of a student's third academic suspension, the Angelo State University GPA is less than 2.00 the student will be placed on indefinite suspension. Students may not apply for readmission to Angelo State University for a period of 10 calendar years.

IV. Registering at Another Institution During Suspension

Students who have been placed on academic suspension are not prohibited from registering at another institution; however, such academic work will not change the GPA used for calculating probation and suspension, since only those grades earned at Angelo State University are calculated in determining probation-suspension status. Students who enroll at another institution while on suspension from Angelo State University will be considered transfer students if they return and will be required to meet Angelo State's transfer guidelines for re-admission.

V. Exceptions

Exceptions to the suspension policy may only be made in situations involving documented cases of serious illness or personal misfortune or when students are making discernible progress toward completion of a degree program. Students will receive notification by the Angelo State University Registrar that outlines the suspension appeals process. The appeal must be completed in accordance with the time frame established by the Registrar. Prior to filing an appeal, students must clear all existing holds. If the appeal is granted by the Academic Review Committee, the student will return to Academic Probation.

Unless other special conditions are imposed by the dean, students granted reinstatement and re-admitted on academic probation are given two probationary terms (fall or spring terms) to raise their Angelo State University GPA to 2.00. In addition to any special conditions imposed by the dean, students must meet the conditions under "Academic Probation" explained above. At the end of the second probationary semester, if the Angelo State University GPA is less than 2.00, the student will be placed on the appropriate academic suspension.

Cases in which the circumstances are not covered by the above regulations shall be handled at the discretion of the college dean.

Dual Credit Academic Probation

Students are placed on academic probation at the end of any term when a cumulative grade point average of at least 2.00 is not attained in college-level courses. Students are not subject to academic probation until a minimum of six semester hours of ASU dual credit courses have been attempted. Students on academic probation will be allowed to enroll in the next term, but may not register for more than 6 hours of dual credit courses in that term.

Dual credit students who enroll while they are classified as being on academic probation may continue to enroll in succeeding terms providing they achieve at least a 2.00 GPA each term, even though their cumulative GPA is still below 2.00.

Dual Credit Academic Suspension

Dual credit students who enroll in dual credit courses while on academic probation will be suspended from the succeeding long-term if they fail to achieve at least a 2.00 GPA in dual credit courses for that term. Students who are placed on academic suspension at the conclusion of the spring term are not eligible for enrollment in dual credit courses the following fall semester. Students who are placed on academic suspension at the conclusion of the fall term are not eligible for enrollment in dual credit courses during the following spring semester.

Source Note: Angelo State University Operating Policy 10.07. . Approved April 27, 2020.

Grade Point Average

A student's academic progress is measured in terms of the student's overall grade point average, which is based on all course work (including developmental courses) taken in which a computable grade is awarded. The student's overall grade point average is computed by dividing the total number of quality (grade) points earned by the total number of quality hours. For example, a sophomore student who has 35 quality hours and has earned 85 quality points would have a 2.43 overall grade point average: 85 quality points ÷ 35 quality hours = 2.43 GPA. Quality hours are defined as hours for which a student registers and receives a grade of either "A", "B", "C", "D", or "F". See the section entitled "System of Grading" for information on related items.

Dean's List

An undergraduate student will be eligible for the Dean's List during the fall or spring semester upon completion of 12 or more college-level (non-developmental) semester credit hours in residence, with a semester grade point average of 3.25 or greater in college-level courses. This honor will be noted on the student's transcript. Any student making an "F," "NC", or "I" will not be eligible for the Dean's List.

Developmental Education Program

Angelo State University offers developmental education programs in English and mathematics. The developmental curriculum includes both college credit courses paired with developmental activities and non-course-based options. A student required by Texas Success Initiative (TSI) regulations to participate in a developmental education program must enroll in developmental activities until that student is TSI complete. **A student enrolled in developmental activity is also subject to special provisions regarding withdrawals** page 163.

Basic English Skills

A student who fails the writing and/or reading section of the TSIA will be required to complete a developmental course or activity identified by the Department of English and Modern Languages.

Basic Mathematics Skills

A student who fails the mathematics section of the TSIA will be required to complete a developmental course or activity identified by the Department of Mathematics.

Bachelor's Degree Requirements

Students should refer to the appropriate degree plan in the program section of this Catalog for information concerning a specific degree.

All bachelor degrees must meet general degree requirements, including completion of:

- a minimum of 120 semester credit hours;
- a minimum of 36* semester credit hours at the advanced (junior and senior) level;
- a minimum of 25 percent of the semester credit hours required for the degree in residence at Angelo State University;
- a minimum of 30 semester credit hours, with a maximum of 60** semester credit hours, are required in the major;
- a minimum of 25 percent of the advanced hours in the major must be in residence;
- core curriculum requirements;
- TSI requirements; and
- Applicable GPA requirements.
- Only 8 semester credit hours of Physical Activity (PA) may be used to meet degree requirements.

Students seeking teacher certification are expected to complete clinical teaching (student teaching) in residence at Angelo State University.

Source Note: Angelo State University Operating Policy 10.09. . Approved August 5, 2022.

Grade Requirements

- An overall 2.00 grade point average ("C" average) on all college-level work and a 2.00 grade point average ("C" average) for studies at this institution are required for graduation from Angelo State University. All degree programs require an overall 2.00 grade point average in the student's major field and a 2.00 grade point average in the major field in residence.
- All degrees leading to teacher certification require a 2.75 overall grade point average and a 2.75 grade point average with no grade lower than a "C" in the certification content area, interdisciplinary major, and professional education. To meet certification requirements a student must also have a 2.75 grade point average in their major in residence.
- Integrated programs require a minimum 3.00 grade point average and 2.00 grade point average in the undergraduate major.

Minors are optional, but some programs may require a minor. Sufficient elective hours, lower-level and/or advanced, are required to meet total degree and advanced-hour requirements.

* Exceptions to this 36 SCH advanced hour rule are (the B.A.A.S. - 30 SCH, the B.B.S. - 31 SCH, and the B.I.A. - 31 SCH) degrees that have articulation requirements and/or accreditation requirements.

** Exceptions to this 60 SCH maximum in the major are degrees that have agreement requirements and/or accreditation requirements beyond the 60 SCH limit.

Bachelor of Applied Arts and Sciences (B.A.A.S.) Degree

The Bachelor of Applied Arts and Sciences is designed to be a pathway to baccalaureate degree completion for students who have already completed an associate's degree from an accredited institution of higher education or who have completed at least 12 hours of transfer credit. This degree program is also beneficial for students with extensive credits through military training but who have not yet earned a degree.

The Office of Admissions will make an exception to standard policy with regard to non-academic coursework counting toward an associate's degree. Up to 60 credit hours of non-academic coursework from the associate's degree may be accepted and applied toward the B.A.A.S. degree. However, should a student choose to change his or her major from the B.A.A.S. degree, the non-academic transfer credits originally applied and accepted may be revoked.

Academic Major/Specialization

The academic specialization in the Bachelor of Applied Arts and Science degree program requires a minimum of 30 semester credit hours, of which at least 24 must be advanced. At least 25% of these advanced hours must be taken in residence.

NOTE: The B.A.A.S. degree cannot be used in a dual degree.

Bachelor of Arts (B.A.) Degree

Academic Major

The academic major in the Bachelor of Arts degree programs requires no fewer than thirty and no more than sixty semester hours, of which at least eighteen semester hours will be at the advanced level and at least 25% of the advanced hours required in the academic major must be taken in residence.

Bachelor of Arts (B.A.) Degree Specific Requirements

Humanities. One course from the following: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306. This course cannot simultaneously count for the Core Language, Philosophy, and Culture requirement.

Modern Language. The student must earn twelve semester hours of the same language. Most students will begin language study with 1301 unless they earn credit by exam (CLEP, AP). Students who have some previous language experience in Spanish may choose Spanish 1301/1302 to receive 6 semester credit hours in one semester. This course cannot simultaneously count for the Core Language, Philosophy, and Culture requirement.

Bachelor of Border Security (B.B.S.) Degree

Academic Major

Thirty semester hours are required for the major, all 30 semester hours must be advanced. All 30 advanced semester hours must be taken in residence.

Total Hours. A minimum of 120 semester hours.

Bachelor of Business Administration (B.B.A.) Degree

Academic Major

The Bachelor of Business Administration is a broad field degree, comprised of the B.B.A. Core which is common to all B.B.A. majors, and the specific major requirements for each B.B.A. major area. A minor is optional.

Grade Requirements

A minimum 2.00 grade point average for all college work. A minimum 2.00 GPA for all work taken at Angelo State University. A minimum 2.00 GPA is required in all course work taken to satisfy the B.B.A. core. A minimum 2.00 GPA is required in all course work taken to satisfy the specific major requirements beyond the B.B.A. core, not including any free electives. A minimum 2.00 GPA is required in all course work taken in residence to satisfy the B.B.A. core. A minimum 2.00 GPA is required in all course work taken in residence to satisfy the specific major requirements beyond the B.B.A. core, not including any free electives. Integrated programs require a minimum 3.00 GPA overall and 2.00 GPA in both the undergraduate B.B.A. core and specific undergraduate major requirements beyond the B.B.A. core, not counting any undergraduate free electives.

B.B.A. Core Requirements

Accounting. Accounting 2301, 2302.

Business. Business 1301, 3301.

Business Computer Information Systems. Business Computer Information Systems 1305.

Communication. Communication 3352.

Economics. Economics 2301, 2302.

Finance. Finance 3361.

Management. Management 2331, 3301, 3305, 3343, 4303 (Accounting majors must take Accounting 3305 in place of Management 3343.)

Marketing. Marketing 3321.

International Business. A three semester-hour course: Economics 4307, Finance 4367, Management 3311, 3312, Marketing 4321. (Economics majors must take Economics 4307; Finance majors must take either Economics 4307 or Finance 4367; Marketing majors must take Marketing 4321; and International Business majors must take Management 3311.)

Major Field Test

All students pursuing the B.B.A. degree must complete the undergraduate Major Field Test (MFT) as a graduation requirement, which is typically administered within Management 4303.

Residence

Overall a minimum of 25 percent of the credits required for the degree in residence at Angelo State University. At least 24 semester credit hours at the advanced level must be taken in residence as follows: at least 12 semester credit hours at the advanced level required in the B.B.A. core must be taken in residence; at least 12 semester credit hours at the advanced level in the individual major requirements beyond the B.B.A. core (not counting free electives) must be taken in residence.

Bachelor of Commercial Aviation (B.C.A.) Degree

Academic Major

The Bachelor of Commercial Aviation (B.C.A.) degree program has four options: Flight Operations-Fixed Wing, Helicopter, Air Traffic Operations, and Aviation Administration. All options require 120 credit hours for graduation.

As part of the Flight Operations-Fixed Wing option, 250 clock hours of flight instruction and flying time is required. Flight Operations-Fixed Wing graduates will attain pilot certifications up to and including private pilot single engine, private pilot multi-engine, instrument pilot, commercial pilot, certified flight instructor, and instrument instructor.

The Aviation Administration option includes 42 additional hours of specific business and aviation courses. Aviation Administration graduates will prepare to have a career in the operations side of the aviation industry, such as airport managers and fixed-base operators.

Other Requirements

Students entering the Flight Operations option Fixed Wing or Helicopter must satisfy the following requirements prior to starting flight training:

- Must be admitted to Angelo State University
- Must be a Commercial Aviation degree-seeking student
- Must have an Airman Medical Certificate, 1st class recommended
- Find an Aviation Medical Examiner (AME) near you
- Must have a valid driver's license
- Must have taken an ACT or SAT test
- Must have taken the Symbiotics' Cognitive test

Grade Requirements

A minimum 2.00 grade point average for all university-level course work. A minimum 2.00 GPA is required in the major in Commercial Aviation, within all options, and all in-residence course work. A grade of "C" or better is required in all Commercial Aviation (CAV) courses in order to progress to the next course.

Residence

Overall a minimum of 25 percent of the credits required for the degree in residence at Angelo State University.

Bachelor of Fine Arts (B.F.A.) Degree

Academic Major

A total of 60 semester hours in art is required in the studio art major of which 36 hours must be advanced. At least 25% of the advanced hours required in the academic major must be taken in residence.

Bachelor of Fine Arts (B.F.A.) Degree Specific Requirements

Humanities. One course from the following: Cultural Competence 2323, English 2321, 2322, 2323, 2326, 2329, 2331, 2341, History 2311, 2312, 2322, Honors 2305, Philosophy 1301, 2305, 2306.

Departmental Requirements. During their second year, students will be required to take a skills test to assess their basic knowledge of artistic concepts. The skills test will be administered by the art faculty each spring semester. If a student fails to demonstrate adequate skills, a faculty committee will recommend to the student that he/she repeat course work or complete additional course work. Upon completion of the prescribed course work, the student will repeat the skills test. If adequate skills are still not demonstrated, then the faculty committee will recommend to the student that he/she pursue a different curriculum of study.

Graduating seniors will submit for review and evaluation a completed portfolio of their studio work together with an evaluative paper that will clearly explain, define, and analyze their portfolio work. Both the portfolio work and the contents of the explanatory paper will be reviewed by a committee of art faculty and an art juror from outside the University. The quality of a student's portfolio work will be an output measure for the faculty to determine the quality of instruction delivered by the department.

Bachelor of Intelligence and Analysis (B.I.A.) Degree

Academic Major

Thirty semester hours are required for the major, all 30 semester hours must be advanced. All 30 advanced semester hours must be taken in residence.

Total Hours. A minimum of 120 semester hours.

Bachelor of Interdisciplinary Studies (B.I.S.) Degree

Multiple Discipline Academic Major with Mathematics Secondary Certification

The interdisciplinary academic major in the Bachelor of Interdisciplinary Studies (certification) degree program offers certification in the Mathematics 7-12 grade level. This major requires no fewer than 48 semester hours, of which at least 21 semester hours will be at the advanced level. At least 25% of the advanced hours in the academic major must be taken in residence.

For more information about the B.I.S. (certification) degree contact the Department of Mathematics in the College of Science and Engineering.

Teacher Certification

Students seeking teacher certification should refer to the appropriate degree plan elsewhere in this catalog for information. They should also consult with the Department Chair of the major and the Certification Advisor in planning their program in order to make certain they are meeting State requirements. Students pursuing the Bachelor of Interdisciplinary Studies degree can choose the following certification area:

- Grades 7 to 12 Mathematics

Multiple Discipline Academic Major

The academic major in the Bachelor of Interdisciplinary Studies (non-certification) requires 36 hours minimum. Any two single area minors offered at Angelo State University. Multiple-discipline minors are accepted as single area minors. Each minor must have at least eighteen hours with at least six hours in each minor at the advanced level. At least 25% of the advanced hours required in the major must be taken in residence. The multiple-area minor may not be used. For more information about the B.I.S. (non-certification) degree contact, the College of Arts and Humanities.

The B.I.S. degree consists of a multiple discipline academic major, other requirements, and electives totaling at least 120 credit hours. No more than 30 credit hours from any of the business disciplines (accounting, business, business computer information systems, economics, finance, management, and marketing) may be used to fulfill the B.I.S. degree requirements. For the B.I.S. degree, the multiple discipline academic major is comprised of two minors. Any single area minor offered at Angelo State University may be used providing it has no less than eighteen credit hours with at least six of them at the advanced level. At least 25% of the advanced hours in the academic major must be taken in residence. No more than one business minor (Business Administration, Management, Marketing, Accounting, or Finance) may be used to fulfill the multiple discipline academic major, as this would exceed the 30 credit hour limit for business courses mentioned above

NOTE: The B.I.S. degree cannot be used in a dual degree. No more than one business minor may be used as part of the B.I.S. major.

The student who is in a program leading to teacher certification may be require to exceed 120 semester hours in order to meet all degree and certification requirements.

Bachelor of Music (B.M.) Degree

Academic Major with Specialization in Applied Performance - Instrumental or Voice

80 (instrumental track) or 86 (vocal track) semester hours in music are required for the major, of which 40 (instrumental track) or 42 (vocal track) semester hours must be advanced. At least 25% of the advanced hours required in the academic major must be taken in residence.

Academic Major with Specialization in Teacher Certification

62 semester hours in music are required for the major, of which 24-25 semester hours must be advanced. At least 25% of the advanced hours required in the academic major must be taken in residence. The Bachelor of Music degree with a specialization in Teacher Certification allows the student to meet all requirements for all-level teacher certification in music.

Students should consult the Certification Advisor in the EPI Center when planning their programs in order to make certain that they are meeting the requirements of the State Board for Educator Certification.

Total Hours. A minimum of 125 semester hours.

Bachelor of Science (B.S.) Degrees

Single Discipline Academic Major

The academic major in the Bachelor of Science degree programs requires no fewer than 30 and not more than 60 semester hours, of which at least 18 semester hours will be at the advanced level and at least 25% of the advanced hours required in the academic major must be taken in residence.

Interdisciplinary Academic Major

The interdisciplinary academic major in the Bachelor of Science degree programs requires no fewer than 48 semester hours, of which at least 21 semester hours will be at the advanced level and at least 25% of the advanced hours required in the academic major must be taken in residence.

Education Major

The Education major offers certification at either the Early Childhood to Grade 6 or the Middle School (Grades 4 to 8) level. Students should consult with the Department of Teacher Education and the Certification Advisor in planning their program in order to make certain that they are meeting State requirements.

Areas of concentration include the following:

- Early Childhood to Grade 6 Generalist
- Early Childhood to Grade 6 Generalis and Special Education EC-12
- Grades 4 to 8, Generalist

Bachelor of Science (B.S.) Degree Specific Requirements

A minimum of four semesters (comprising a minimum of fourteen hours) of science courses. These courses must come from animal science (ASCI 3320, 3443, 3449, or 4344 only), biology, chemistry, geography (GEOG 1301/1101 only), geology, health science professions (HSP 2301/2101, 2302/2102 only), food science (FSCI 3446 only), physical science, or physics, and must include more than one discipline. The six hours in the core requirements will be included in the four semester, fourteen hour minimum.

All undergraduate Education programs in the Department of Teacher Education also require a grade of "C" or better in all course work with the exception of courses used as electives.

Bachelor of Science in Civil Engineering (B.S.C.E.) Degree

Academic Major

The single discipline academic major in the Bachelor of Science in Civil Engineering degree program requires no fewer than 65 semester hours, of which at least 42 semester hours will be at the advanced level, at least 25% of the advanced hours required in the major must be taken in residence.

Total Hours. A minimum of 127 semester hours.

Bachelor of Science in Health Science Professions (B.S.H.S.P.) Degree

Academic Major

The single discipline academic major in the Bachelor of Health Science Professions degree program requires 45 to 63 semester hours. The Health Science Professions courses required in residence for each specialization are as follows:

Healthcare Administration: (21 hours) HSP 3345, 4320, 4325, 4330, 4335, 4340, 4345, and 4350.

Physical Therapy and Allied Health: (31 hours) HSP 2325, 3345, 3420, 4315, 4320, 4325, 4330, 4335, 4340, 4345, and 4350.

Public Heath: (24 hours) HSP 3345, 4315, 4320, 4325, 4330, 4335, 4340, 4345, and 4350.

Grade Requirements.

A grade of "C" or above in each of the required Health Science Professions (HSP) courses.

Bachelor of Science in Mechanical Engineering (B.S.M.E.) Degree

Academic Major

The single discipline academic major in the Bachelor of Science in Mechanical Engineering degree program requires no fewer than 69 semester hours, of which at least 40 semester hours will be at the advanced level, at least 25% of the advanced hours required in the major must be taken in residence.

Total Hours. A minimum of 127 semester hours.

Bachelor of Science in Nursing (B.S.N.) Degree

Academic Major

A minimum of 58 semester hours of nursing work.

Bachelor of Science in Nursing Degree Specific Requirements (Generic Option)

Statistics. Three semester credit hours of statistics.

Advanced Hours

A minimum of 58 semester hours (junior and senior level courses).

Grade Requirements

A grade of "C" or above in each nursing course and a minimum 2.00 institutional grade point average at the completion of each semester in order to progress to the next nursing course. A minimum 2.00 overall grade point average for all college work and a minimum 2.00 grade point average for all work taken at Angelo State University in order to graduate.

Residence

Overall a minimum of 25% of the credits required for the degree in residence at Angelo State University. At least 24 semester credit hours must be at the advanced level. Included are 20 advanced semester hours in nursing courses in residence.

Bachelor of Security Studies (B.S.S.) Degree

Academic Major

The academic major in the Bachelor of Security Studies degree programs requires 42 semester hours, of which at least 18 semester hours will be at the advanced level, at least 25% of the advanced hours required in the academic major must be taken in residence.

Bachelor of Social Work (B.S.W.) Degree

Academic Major

A minimum of 60 semester hours of social work is required of which 42 semester hours must be advanced. At least 25% of the advanced semester hours in social work must be taken in residence. Courses required in residence include: Social Work 4371, 4372, and 4373.

Grade Requirements

A grade of "C" or above in each required social work course and a minimum of 2.50 grade point average in all social work courses. A minimum 2.00 overall grade point average for all college work and a minimum 2.00 grade point average for all work taken at Angelo State University in order to graduate.

Residence

Overall a minimum of 25% of the credits required for the degree in residence at Angelo State University. Social Work courses required in residence include: 4371, 4372, and 4373.

Additional Requirements and Regulations for Baccalaureate Degrees

The Undergraduate Degree Plan

All students working toward a baccalaureate degree must complete a degree plan prior to the completion of 30 semester credit hours (before becoming a sophomore).

Students without an approved degree plan should follow closely the course of study for their proposed major specified under the designated academic department in this Catalog. Failure to do so may result in a delay in the completion of the degree requirements.

Degree plan forms are available in the appropriate departmental offices. For any degree, the student must confer with and receive approval for the degree plan from the academic department chair in the proposed major department and from the dean of the college. Once a student has completed the degree plan, the student is permitted to change the degree plan only with written approval of the department chair and dean of the college.

Certification requirements not a part of the student's degree program will not be included in the degree plan. Students who want to obtain a certification area beyond what is required in their degree programs should consult the College of Education's Educator Preparation Information Center.

Certification requirements can change prior to the expiration of a degree plan. Students should consult with department chairs and the College of Education's Educator Preparation Information Center to determine the latest certification requirements.

Academic Major

A major is usually a group of courses which constitutes a principal field of study. In most cases, it includes courses from a single academic discipline. In some cases (i.e., interdisciplinary or multidisciplinary majors), it will include courses from two or more disciplines.

A baccalaureate major must contain a minimum of 30 semester credit hours and no more than 60 semester credit hours in any single discipline. Exceptions to this 60 hour maximum in the major are degrees that have agreement requirements and/or accreditation requirement beyond the 60 semester credit hour limit.

All students must declare a major prior to the completion of 30 semester credit hours.

Academic Minor

A minor is usually a group of courses which constitutes a secondary, less intensive field of study. Minors, which are included in some baccalaureate programs, may include courses from one, two, or three academic disciplines outside the major. A baccalaureate minor must contain an approved cluster of at least eighteen semester credit hours, of which a minimum of six must be advanced (i.e. junior- or senior-level courses). Requirements for the various minors are included in the "Academic Regulations" section of the Catalog page 187.

Multiple Major

A student who wishes to earn a degree with a major in multiple programs may do so provided the student meets all requirements for each major; has approval from the dean of each college which would confer the degrees; and each of the majors fall under the same degree category (B.A., B.S., etc.). For example, a student who declares a multiple major could earn a Bachelor of Arts degree with a major in communication, a major in history, and a major in political science; however, a student could not earn a multiple major in communication, history and intelligence and analysis, since the degree in intelligence and analysis would be a B.S.S. degree. See the paragraph concerning "dual degrees" for further information about degrees in different degree categories.

Dual Degrees

Dual degrees are two different types of degrees (eg., a bachelor of arts and a bachelor of science) conferred simultaneously. An example would be a Biology B.S. degree and a Psychology B.A. degree. Dual degree candidates must complete a minimum of 30 hours beyond the requirements of the single degree. Dual majors must complete the requirements of both major fields.

NOTE: The B.A.A.S. degree and the B.I.S. degree cannot be used in a dual degree.

Second Baccalaureate Degree

A student who holds one baccalaureate degree from this University or any college or university that is a member of a regional accrediting association may receive a second baccalaureate degree by completing the following requirements:

- A minimum of thirty new semester hours in residence, including twenty-four new semester hours of advanced work in residence. New semester hours are those taken and completed after the student has received one baccalaureate degree.
- A minimum of twelve new semester hours of advanced work in the major subject field in residence and six new advanced semester hours in the minor subject field in residence (if there is a minor field). For an interdisciplinary major, a minimum of eighteen new semester hours of advanced work in the major fields in residence.
- Completion of all other requirements of the degree sought at Angelo State University, as outlined in the Catalog in effect when the student initiates course work leading to a second baccalaureate degree. Beyond this provision, Catalog selection shall be in accordance with the policy statement "Graduation Under a Particular Catalog." (See page 181 in this Catalog.)

Graduation Requirements

Graduation Under a Particular Catalog

The University reserves the right to modify the curricula or withdraw any courses when it appears wise to do so. The policies and procedures in this Catalog are currently in effect; however, the University reserves the right to make changes or modifications for good cause.

To receive a degree from Angelo State University, a student must fulfill all requirements for the degree as set forth in a particular University Catalog as amended. Several choices are allowed: (1) Graduation may be under the requirements of the current University Catalog. (2) Graduation may be under the Catalog of the year in force when the student first registered at Angelo State University or when the student registered at an accredited Texas community college prior to transferring to Angelo State University. (3) Graduation may be under the requirements of the Catalog for any subsequent year in which the student was registered at Angelo State University or when the student was registered at another Texas public institution of higher education prior to transferring to Angelo State University. Each of these provisions is subject to the limitation that all requirements for a degree from Angelo State University 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 2019-20 University Catalog must complete all requirements for the degree under that Catalog prior to August 2025. Otherwise, a later Catalog must be selected.

Students may be able to graduate under a specific Catalog and degree plan but may not be able to meet certification requirements that have been mandated by the State Board for Educator Certification. Students should consult with department chairs and the College of Education's Educator Preparation Information Center to determine the latest certification requirements.

Application for Graduation *

The student planning to receive a degree from Angelo State University must file an Application for Graduation online. To be recognized in the program, a student must apply for graduation no later than five business days before the end of a student's final semester. No degree will be conferred until a degree plan has been approved, the Application for Graduation has been filed, and all requirements for the degree have been met.

Graduation Exercises

Angelo State University has graduation exercises at the end of the fall semester (in December) and at the end of the spring semester (in May). In order to participate in the graduation ceremony, a student must complete an Application for Graduation, have a 2.00 institutional grade point average or greater, and have successfully completed or be registered for all courses required for the degree. Additional information about commencement may be found on the Commencement website.

Graduation with Honors

Any candidate for a baccalaureate degree at Angelo State University will be eligible for graduation with honors. The grade point average used in determining graduation honors will be based only on Angelo State University courses.

A student with an institutional undergraduate grade point average of 3.50 but less than 3.70 will be graduated *Cum Laude*; a student with an institutional grade point average of 3.70 but less than 3.90 will be graduated *Magna Cum Laude*; and a student with an institutional undergraduate grade point average of 3.90 through 4.00 will be graduated *Summa Cum Laude*.

Honors designations for candidates at commencement are based on work completed prior to the term of graduation.

* Refer to Credit for Correspondence and Extension, page 168.

Core Curriculum

The core curriculum is designed to give all graduating students the opportunity to acquire a general knowledge of study areas traditionally regarded as basic to a university education. The curriculum complies with Texas legislation requiring each state-supported institution to establish a "core curriculum." For specific and additional academic major program requirements, see the appropriate program section of the Catalog.

ASU Course		Texas Common Course Number
COMMUNICATION 010(N): 6 hours		
Required 3 SCH hours:		
ENGL 1301	English Composition	ENGL 1301
Choose 3 SCH from the following:		
ENGL 1302	Writing Across the Curriculum	ENGL 1302
ENGL 2311	Introduction to Technical and Business Writing	ENGL 2311
MATHEMATICS 020(N): 3 hours		
MATH 1314	College Algebra	MATH 1314
MATH 1316	Trigonometry with Analytic Geometry	MATH 1316
MATH 1324	Finite Mathematics I	MATH 1324
MATH 1332	Introduction to Contemporary Math	MATH 1332
MATH 1342	Elementary Statistics	MATH 1342
MATH 1350	Fundamental Mathematics for Elementary and Middle School Teachers	MATH 1350
MATH 2312	Precalculus	MATH 2312
MATH 2412	Precalculus	MATH 2412
MATH 2413	Calculus I	MATH 2413
LIFE AND PHYSICAL SCIENCES 030(N): 6 hours		
BIOL 1306	Principles of Biology I	BIOL 1306
BIOL 1307	Principles of Biology II	BIOL 1307
BIOL 1308	Human Biology	BIOL 1308
BIOL 1309	Man and the Environment	BIOL 1309
BIOL 1406	Principles of Biology I	BIOL 1406
BIOL 1407	Principles of Biology II	BIOL 1407
BIOL 1408	Human Biology	BIOL 1408
BIOL 1409	Man and the Environment	BIOL 1409
BIOL 2323	Human Anatomy	
BIOL 2324	Human Physiology	
BIOL 2423	Human Anatomy	
BIOL 2424	Human Physiology	
CHEM 1305	Elements of Chemistry	CHEM 1305
CHEM 1311	General Chemistry I	CHEM 1311
CHEM 1312	General Chemistry II	CHEM 1312
CHEM 1405	Elements of Chemistry	CHEM 1405
CHEM 1411	General Chemistry	CHEM 1411
GEOG 1301	Physical Geography	GEOG 1301
GEOL 1301	Earth Science	GEOL 1301
GEOL 1303	Physical Geology	GEOL 1303
GEOL 1304	Historical Geology	GEOL 1304
GEOL 1347	Meteorology	GEOL 1347
GEOL 1401	Earth Science	GEOL 1401
GEOL 1403	Physical Geology	GEOL 1403
GEOL 1404	Historical Geology	GEOL 1404
HSP 2301	Human Anatomy and Physiology I	BIOL 2301
HSP 2302	Human Anatomy and Physiology II	BIOL 2302
HSP 2401	Human Anatomy and Physiology I	BIOL 2401
HSP 2402	Human Anatomy and Physiology II	BIOL 2402
PHYS 1301	General Physics I	PHYS 1301
PHYS 1302	General Physics II	PHYS 1302
PHYS 1303	Fundamentals of Astronomy	PHYS 1303
PHYS 1304	Astronomy of the Solar System	PHYS 1304
PHYS 1401	General Physics I	PHYS 1401
PHYS 1402	General Physics II	PHYS 1402

(continued on next page)

(continued from previous page)

ASU Course			Texas Common Course Number
PHYS	2325	Fundamentals of Physics I	PHYS 2325
PHYS	2326	Fundamentals of Physics II	PHYS 2326
PHYS	2425	Fundamentals of Physics I	PHYS 2425
PS	1315	Introduction to Physical Science I	PHYS 1315
PS	1317	Introduction to Physical Science II	PHYS 1317

LANGUAGE, PHILOSOPHY, AND CULTURE 040(N): 3 hours

CUL	2323	World Cultures	
ENGL	2321	Introduction to British Literature	ENGL 2321
ENGL	2322	British Literature I	ENGL 2322
ENGL	2323	British Literature II	ENGL 2323
ENGL	2326	Introduction to American Literature	ENGL 2326
ENGL	2329	Introduction to Literary Studies	
ENGL	2331	Introduction to World Literature	ENGL 2331
ENGL	2341	Forms of Literature	ENGL 2341
HIST	2311	Western Civilization I	HIST 2311
HIST	2312	Western Civilization II	HIST 2312
HIST	2322	World Civilizations II	HIST 2322
PHIL	1301	Introduction to Philosophy	PHIL 1301
PHIL	2306	Introduction to Ethics	PHIL 2306

CREATIVE ARTS 050(N): 3 hours

AGSC	2310	Floral Design	
ARTS	1301	Introduction to Art	ARTS 1301
ARTS	1302	Primary Art	
ARTS	1303	Art History I	ARTS 1303
ARTS	1304	Art History II	ARTS 1304
HONR	2302	Great Works in the Arts	
MUSI	1306	Introduction to Music	MUSI 1306
MUSI	1310	American Popular Music	MUSI 1310
MUSI	1313	Survey of Rock and Roll	
TH	1310	Introduction to Dramatic Art	DRAM 1310

AMERICAN HISTORY 060(N): 6 hours

HIST	1301	History of the US to 1865	HIST 1301
HIST	1302	History of the US, 1865 to Present	HIST 1302

GOVERNMENT/POLITICAL SCIENCE 070(N): 6 hours

POLS	2305	Federal Government	GOVT 2305
POLS	2306	Texas Government	GOVT 2306

SOCIAL AND BEHAVIORAL SCIENCES 080(N): 3 hours

AGEC	2317	Introductory Agricultural Economics and Business	AGRI 2317
BUSI	2321	Money Management and Professional Readiness	
ECON	1300	Economic Issues	
ECON	2301	Principles of Macroeconomics	ECON 2301
ECON	2302	Principles of Microeconomics	ECON 2302
GEOG	2305	Fundamentals of Geography	
POLS	2304	Introduction to Political Science	GOVT 2304
PSY	2301	General Psychology	PSYC 2301
PSY	2315	Psychology of Adjustment	PSYC 2315
SOC	1301	Introduction to Sociology	SOCI 1301
SOC	1306	Social Problems	SOCI 1306

COMPONENT AREA OPTIONS

Component Area A 091: 3 hours

COMM	1315	Public Speaking	SPCH 1315

(continued on next page)

(continued from previous page)

ASU Course Number		Texas Common Course
Component Area B 090(N): 3 hours		
AGEC 2317	Introductory Agricultural Economics and Business	AGRI 2317
AGSC 2310	Floral Design	
ARTS 1301	Introduction to Art	ARTS 1301
ARTS 1302	Primary Art	
ARTS 1303	Art History I	ARTS 1303
ARTS 1304	Art History II	ARTS 1304
BIOL 1106	Principles of Biology I Laboratory	BIOL 1106
BIOL 1107	Principles of Biology II Laboratory	BIOL 1107
BIOL 1108	Human Biology Laboratory	BIOL 1108
BIOL 1109	Man and the Environment Laboratory	BIOL 1109
BIOL 1306	Principles of Biology I	BIOL 1306
BIOL 1307	Principles of Biology II	BIOL 1307
BIOL 1308	Human Biology	BIOL 1308
BIOL 1309	Man and the Environment	BIOL 1309
BIOL 1406	Principles of Biology I	BIOL 1406
BIOL 1407	Principles of Biology II	BIOL 1407
BIOL 1408	Human Biology	BIOL 1408
BIOL 1409	Man and the Environment	BIOL 1409
BIOL 2123	Human Anatomy Laboratory	
BIOL 2124	Human Physiology Laboratory	
BIOL 2323	Human Anatomy	
BIOL 2324	Human Physiology	
BIOL 2423	Human Anatomy	
BIOL 2424	Human Physiology	
BUSI 2321	Money Management and Professional Readiness	
CHEM 1105	Elements of Chemistry Laboratory	CHEM 1105
CHEM 1111	General Chemistry I Laboratory	CHEM 1111
CHEM 1112	General Chemistry II Laboratory	CHEM 1112
CHEM 1305	Elements of Chemistry	CHEM 1305
CHEM 1311	General Chemistry I	CHEM 1311
CHEM 1312	General Chemistry II	CHEM 1312
CHEM 1405	Elements of Chemistry	CHEM 1405
CHEM 1411	General Chemistry	CHEM 1411
CUL 2323	World Cultures	
ECON 1300	Economic Issues	
ECON 2301	Principles of Macroeconomics	ECON 2301
ECON 2302	Principles of Microeconomics	ECON 2302
ENGL 2321	Introduction to British Literature	ENGL 2321
ENGL 2322	British Literature I	ENGL 2322
ENGL 2323	British Literature II	ENGL 2323
ENGL 2326	Introduction to American Literature	ENGL 2326
ENGL 2329	Introduction to Literary Studies	
ENGL 2331	Introduction to World Literature	ENGL 2331
ENGL 2341	Forms of Literature	ENGL 2341
GEOG 1101	Physical Geography Lab	
GEOG 1301	Physical Geography	GEOG 1301
GEOG 2305	Fundamentals of Geography	
GEOL 1101	Earth Science Laboratory	GEOL 1101
GEOL 1103	Physical Geology Laboratory	GEOL 1103
GEOL 1104	Historical Geology Laboratory	GEOL 1104
GEOL 1301	Earth Science	GEOL 1301
GEOL 1303	Physical Geology	GEOL 1303
GEOL 1304	Historical Geology	GEOL 1304
GEOL 1347	Meteorology	GEOL 1347
GEOL 1401	Earth Science	GEOL 1401

(continued on next page)

(continued from previous page)

ASU Course		Texas Common Course Number
GEOL 1403	Physical Geology	GEOL 1403
GEOL 1404	Historical Geology	GEOL 1404
GS 1181	Freshman Seminar	
HIST 2311	Western Civilization I	HIST 2311
HIST 2312	Western Civilization II	HIST 2312
HIST 2322	World Civilizations II	HIST 2322
HONR 2302	Great Works in the Arts	
HSP 2101	Human Anatomy and Physiology I Laboratory	BIOL 2101
HSP 2102	Human Anatomy and Physiology II Laboratory	BIOL 2102
HSP 2301	Human Anatomy and Physiology I	BIOL 2301
HSP 2302	Human Anatomy and Physiology II	BIOL 2302
HSP 2401	Human Anatomy and Physiology I	BIOL 2401
HSP 2402	Human Anatomy and Physiology II	BIOL 2402
MATH 1314	College Algebra	MATH 1314
MATH 1316	Trigonometry with Analytic Geometry	MATH 1316
MATH 1324	Finite Mathematics I	MATH 1324
MATH 1332	Introduction to Contemporary Math	MATH 1332
MATH 1342	Elementary Statistics	MATH 1342
MATH 1350	Fundamental Mathematics for Elementary and Middle School Teachers	MATH 1350
MATH 2312	Precalculus	MATH 2312
MATH 2412	Precalculus	MATH 2412
MATH 2413	Calculus I	MATH 2413
MUSI 1306	Introduction to Music	MUSI 1306
MUSI 1310	American Popular Music	MUSI 1310
MUSI 1313	Survey of Rock and Roll	
PHIL 1301	Introduction to Philosophy	PHIL 1301
PHIL 2306	Ethics	PHIL 2306
PHYS 1101	General Physics I Laboratory	PHYS 1101
PHYS 1102	General Physics II Laboratory	PHYS 1102
PHYS 1103	Stellar Astronomy Laboratory	PHYS 1103
PHYS 1104	Solar System Astronomy Laboratory	PHYS 1104
PHYS 1301	General Physics I	PHYS 1301
PHYS 1302	General Physics II	PHYS 1302
PHYS 1303	Fundamentals of Astronomy	PHYS 1303
PHYS 1304	Astronomy of the Solar System	PHYS 1304
PHYS 1401	General Physics I	PHYS 1401
PHYS 1402	General Physics II	PHYS 1402
PHYS 2125	Fundamentals of Physics I Laboratory	PHYS 2125
PHYS 2126	Fundamentals of Physics II Laboratory	PHYS 2126
PHYS 2325	Fundamentals of Physics I	PHYS 2325
PHYS 2326	Fundamentals of Physics II	PHYS 2326
PHYS 2425	Fundamentals of Physics I	PHYS 2425
PS 1115	Introduction to Physical Science I Laboratory	PHYS 1115
PS 1117	Introduction to Physical Science II Laboratory	PHYS 1117
PS 1315	Introduction to Physical Science I	PHYS 1315
PS 1317	Introduction to Physical Science II	PHYS 1317
PSY 2301	General Psychology	PSYC 2301
PSY 2315	Psychology of Adjustment	PSYC 2315
SOC 1301	Introduction to Sociology	SOCI 1301
SOC 1306	Social Problems	SOCI 1306
TH 1310	Introduction to Dramatic Art	DRAM 1310

Four-hour science courses that are a combined lecture and lab (ex. BIOL 1406) will have 1-hour applied to the component area option B and 3-hours applied to Life and Physical Sciences. Four-hour mathematics courses (ex. MATH 2412) will have 1-hour applied to the component area option B and 3-hours applied to Mathematics.

Texas Common Course Numbering System

The Texas Common Course Numbering System (TCCNS) has been designed to aid students in the transfer of general academic courses between Texas public colleges and universities throughout the state. The system ensures students that courses designated as common will be accepted for transfer and the credit will be treated as if the courses had actually been taken on the receiving institution's campus. Angelo State University's courses identified as common will have the Common Course Number listed immediately adjacent to the ASU course number (e.g. TH 1120/DRAM 1120) in each course description. For more information concerning the Texas Common Course Number System, please visit the TCCNS website.

Visit the Transfer Admission Requirements website for information on how your credit will transfer. The following lower-division courses have been evaluated by academic departments and determined to be the equivalent of the Angelo State University courses listed.

TCCN	ASU
ACCT 2301	ACCT 2301
ACCT 2302	ACCT 2302
AGRI 1309	ASCI 1309
AGRI 1319	ASCI 1319
AGRI 1329	FSCI 1329
AGRI 2317	AGEC 2317
ARTS 1301	ARTS 1301
ARTS 1303	ARTS 1303
ARTS 1304	ARTS 1304
ARTS 1311	ARTS 1311
ARTS 1312	ARTS 1312
ARTS 1316	ARTS 1316
ARTS 1317	ARTS 1317
ARTS 2316	ARTS 2316
ARTS 2326	ARTS 2326
ARTS 2333	ARTS 2333
ARTS 2346	ARTS 2346
BCIS 1305	BCIS 1305
BIOL 1106	BIOL 1106
BIOL 1107	BIOL 1107
BIOL 1108	BIOL 1108
BIOL 1109	BIOL 1109
BIOL 1306	BIOL 1306
BIOL 1307	BIOL 1307
BIOL 1308	BIOL 1308
BIOL 1309	BIOL 1309
BIOL 1406	BIOL 1406
BIOL 1407	BIOL 1407
BIOL 1408	BIOL 1408
BIOL 1409	BIOL 1409
BIOL 1411	BIOL 1411
BIOL 1413	BIOL 1413
BIOL 2101	HSP 2101
BIOL 2102	HSP 2102
BIOL 2301	HSP 2301
BIOL 2302	HSP 2302
BIOL 2401	HSP 2401
BIOL 2402	HSP 2402
BIOL 2406	BIOL 2406
BIOL 2420	BIOL 2420
BUSI 1301	BUSI 1301
CHEM 1105	CHEM 1105
CHEM 1106	CHEM 1106
CHEM 1111	CHEM 1111
CHEM 1112	CHEM 1112
CHEM 1305	CHEM 1305
CHEM 1306	CHEM 1306
CHEM 1311	CHEM 1311
CHEM 1312	CHEM 1312
CHEM 1405	CHEM 1405
CHEM 1411	CHEM 1411
CHEM 1412	CHEM 1412
COMM 1307	MM 1307
COMM 1335	COMM 1335
COMM 1335	MM 1335
COMM 1337	COMM 1337
COMM 1337	MM 1337
COMM 2300	MM 2300
COMM 2303	COMM 2303
COMM 2303	MM 2303
COMM 2330	COMM 2330
COSC 1315	CS 1315
COSC 1336	CS 1336
COSC 1337	CS 1337
COSC 2336	CS 2336
CRIJ 1301	CRIJ 1301
CRIJ 1306	CRIJ 1306
CRIJ 1310	CRIJ 1310
CRIJ 2313	CRIJ 2313
CRIJ 2314	CRIJ 2314
CRIJ 2323	CRIJ 2323
CRIJ 2328	CRIJ 2328
DRAM 1120	TH 1120
DRAM 1121	TH 1121
DRAM 1310	TH 1310
DRAM 1322	TH 1322
DRAM 1330	TH 1330
DRAM 1341	TH 1341
DRAM 1342	TH 1342
DRAM 1351	TH 1351
DRAM 1352	TH 1352
DRAM 2120	TH 2120
DRAM 2121	TH 2121
DRAM 2331	TH 2331
ECON 2301	ECON 2301
ECON 2302	ECON 2302
ENGL 1301	ENGL 1301
ENGL 1302	ENGL 1302
ENGL 2311	ENGL 2311
ENGL 2321	ENGL 2321
ENGL 2322	ENGL 2322
ENGL 2323	ENGL 2323
ENGL 2326	ENGL 2326
ENGL 2331	ENGL 2331
ENGL 2341	ENGL 2341
ENGR 1201	ENGR 1201
ENGR 1304	ENGR 1304
ENGR 1307	ENGR 1307
ENGR 2301	ENGR 2301
ENGR 2302	ENGR 2302
ENGR 2304	ENGR 2304
ENGR 2305	ENGR 2305
ENGR 2332	ENGR 2332
FREN 2311	FREN 2311
FREN 2312	FREN 2312
GEOG 1301	GEOG 1301
GEOL 1101	GEOL 1101
GEOL 1103	GEOL 1103
GEOL 1104	GEOL 1104
GEOL 1301	GEOL 1301
GEOL 1303	GEOL 1303
GEOL 1304	GEOL 1304
GEOL 1347	GEOL 1347
GEOL 1401	GEOL 1401
GEOL 1403	GEOL 1403
GEOL 1404	GEOL 1404
GERM 2311	GER 2311
GERM 2312	GER 2312
GOVT 2107	POLS 2107
GOVT 2304	POLS 2304
GOVT 2305	POLS 2305
GOVT 2306	POLS 2306
HIST 1301	HIST 1301
HIST 1302	HIST 1302
HIST 2311	HIST 2311
HIST 2312	HIST 2312
HIST 2321	HIST 2321
HIST 2322	HIST 2322
LATI 1411	LATI 1411
LATI 1412	LATI 1412
LATI 2311	LATI 2311
LATI 2312	LATI 2312
MATH 1314	MATH 1314
MATH 1316	MATH 1316
MATH 1324	MATH 1324
MATH 1332	MATH 1332
MATH 1342	MATH 1342
MATH 1350	MATH 1350
MATH 1351	MATH 1351
MATH 2305	MATH 2305
MATH 2312	MATH 2312
MATH 2412	MATH 2412
MATH 2413	MATH 2413
MATH 2414	MATH 2414
MUSI 1117	MUSI 1117
MUSI 1181	MUSI 1181
MUSI 1182	MUSI 1182
MUSI 1183	MUSI 1183
MUSI 1188	MUSI 1188
MUSI 1303	MUSI 1303
MUSI 1306	MUSI 1306
MUSI 1310	MUSI 1310
MUSI 1312	MUSI 1312
MUSI 2116	MUSI 2116
MUSI 2117	MUSI 2117
MUSI 2181	MUSI 2181
MUSI 2182	MUSI 2182
MUSI 2311	MUSI 2311
MUSI 2312	MUSI 2312
PHED 1301	KIN 1301
PHED 1304	KIN 1304
PHED 2356	KIN 2356
PHIL 1301	PHIL 1301
PHIL 2306	PHIL 2306
PHYS 1101	PHYS 1101
PHYS 1102	PHYS 1102
PHYS 1103	PHYS 1103
PHYS 1104	PHYS 1104
PHYS 1115	PS 1115
PHYS 1117	PS 1117
PHYS 1301	PHYS 1301
PHYS 1302	PHYS 1302
PHYS 1303	PHYS 1303
PHYS 1304	PHYS 1304
PHYS 1315	PS 1315
PHYS 1317	PS 1317
PHYS 1401	PHYS 1401
PHYS 1402	PHYS 1402
PHYS 2125	PHYS 2125
PHYS 2126	PHYS 2126
PHYS 2325	PHYS 2325
PHYS 2326	PHYS 2326
PHYS 2425	PHYS 2425
PHYS 2426	PHYS 2426
PSYC 2301	PSY 2301
PSYC 2315	PSY 2315
PSYC 2319	PSY 2319
RUSS 2311	RUSS 2311
RUSS 2312	RUSS 2312
SOCI 1301	SOC 1301
SOCI 1306	SOC 1306
SPAN 1411	SPAN 1411
SPAN 1412	SPAN 1412
SPAN 2311	SPAN 2311
SPAN 2312	SPAN 2312
SPCH 1315	COMM 1315
SPCH 2335	COMM 2335
SPCH 2341	COMM 2341

Academic Minors

Single discipline academic majors require a minor. The minor is selected from one or more disciplines outside the academic major. A minimum of 18 semester hours with the student choosing either a single area minor or two multiple area minors as defined below.

Single Area Minor. A series of courses in one academic discipline totaling 18 semester hours, six of which must be advanced, or

Multiple Area Minor. A set of courses selected from two or three academic disciplines. Nine semester hours, including at least six advanced semester hours, are required in each component discipline of a multiple area minor. Certain multiple-discipline minors which have been departmentally designed are not required to meet these general requirements for the multiple area minor.

Accounting
Adult Education
Aerospace Studies
Ag Science and Leadership
Agricultural Economics
Animal Science
Art
Astronomy
Banking
Biology
Border Security
Business Administration
Business Analytics for non-MIS Major
Chemistry
Coaching Preparation
Communication
Computer Science
Creative Writing
Criminal Justice
Cybersecurity
Cybersecurity Systems
Economics
Education
English
Ethnic Studies
Film Studies
Finance
Food Science
French
Gender Studies
Geography
Geoscience
German
Health Science Professions
History
Intelligence and Analysis
Journalism
Kinesiology
Leadership Studies
Management for Business Major
Management for Non-Business Major
Management Information Systems
Marketing
Mass Media
Mathematics
Music-Vocal/Instrumental
Music Studies
Philosophy
Physical Science
Physics
Political Science
Professional Education
Psychology
Public Relations
Range and Wildlife Management
Russian
Social Work
Sociology
Spanish
Technical Writing
Theatre
World Cultures

NOTE: Norris-Vincent College of Business majors from the Accounting, Economics and Finance department (AEF) and the Management and Marketing department (MM) may not choose a minor in Business Administration. Bachelor of Interdisciplinary Studies majors may not choose more than one business minor (Accounting, Business Administration, Finance, Management, Marketing) as part of their multiple discipline academic major.

Accounting

Accounting 2301, 2302, 3311, and nine semester credit hours from Accounting 3305, 3312, 3313, 3331, 3361, 4303, and Business 3347. A total of 18 hours with a 2.00 or better GPA. Prerequisites must be met for all courses selected in this minor.

Adult Education

The Adult Education minor is eighteen (18) semester credit hours (SCH) selected from the following list. Select from Education - Adult Education (EDAE) 3301, 3310, 3311, 3330, 4310, 4320, 4321, 4330, 4340.

Aerospace Studies

This discipline may be used only as part of a multiple area minor. This minor requires a 2.00 or better GPA.

Astronomy

The minor in Astronomy is an eighteen semester hour course of study consisting of Physics 1103, 1104, 1303, 1304, 2371, 3170, 3371, and Geology 4303 or Physics 3331.

Banking for Non-Business Majors

Accounting 2301, 2302, Finance 3361, 4324, 4371, and Marketing 3323. A total of 18 hours with a 2.00 or better GPA. Prerequisites must be met for all courses selected in this minor. This minor is not available to students with an undergraduate major in business.

Biology

A student who chooses a biology minor must complete Biology 1306/1106 and 1307/1107 and an additional 10 hours of courses. The following biology courses are not eligible for inclusion into the Biology minor: Biology 1308/1108, 1309/1109, and 2406. Students must complete 18 SCH in a single area minor with at least six advanced hours. Students with a major in Chemistry with a Biochemistry Emphasis should follow biology minor requirements for that degree.

Business Administration

Business 1301 and fifteen semester hours of business electives selected from accounting, business, business computer information systems, economics, finance, management, and marketing. A total of 18 hours with a 2.00 or better GPA. Prerequisites must be met for all courses selected in this minor. This minor is not available to students with an undergraduate major in business.

Students wishing to prepare for an MBA program should consult the MBA Director for guidance in selecting appropriate business electives in this minor.

Business Analytics for non-Management Information Systems Major

The minor in Business Analytics is an eighteen semester credit hour course of study consisting of Business Computer Information Systems 1305 or Computer Science 1314, Mathematics 1324, Management 2331, 3332, 3351, and either Management 4344, Marketing 4322, or another approved elective. This minor requires a 2.00 or better GPA.

Chemistry

A student who chooses to earn a minor in chemistry must complete the following courses: Chemistry 1311/1111, 1312/1112, 3451, 3452, and one additional chemistry course from Chemistry 3421, 3461, or 4331.

Coaching Preparation

Kinesiology 2356, 3321, 3352, 3361, 3380, and 4302 or 4331.

Computer Science

The minor in computer science is an eighteen hour course of study that must include Computer Science 1336, 1337, 2336, plus one additional Computer Science course: 1314, 1315, or 1351; and at least six advanced hours.

Creative Writing

Non-English majors who choose to minor in English may specialize in creative writing by selecting the following courses: English 1301, 1302, 2341, one additional sophomore literature, 3355 and 4376, or 3356 and 4377.

Criminal Justice

Criminal Justice 1301, and 15 additional hours of Criminal Justice electives.

Cybersecurity

Border Security 3307, Computer Science 4307 or 4380, 4320, Management 3343, and two courses chosen from Border Security 3309, 4301, 4302, 4303.

Cybersecurity Systems

The minor in Cybersecurity Systems is eighteen (18) semester credit hours that must include Computer Science 4314, 4320, and twelve (12) additional semester hours chosen from Computer Science 3310, 4340, 4350, 4360, 4370, 4380, 4389, 4390, 4392, or 4071. This is a single area minor only.

Economics

Economics 2301, 2302, one course from Economics 3311, 3312, or 3320; and nine additional hours in Economics at the 3000 level. This minor requires a 2.00 or better GPA. Three hours in Finance can substitute for three hours of the additional hours in Economics.

Education

The Education minor is eighteen (18) semester credit hours (SCH) selected from the following list. Nine hours must be advanced hours. All prerequisites apply to the courses. An individual completing this minor will not be eligible for Texas teacher certification. Select from Early Childhood 2305, Education 2302, Educational Psychology 3314, Educational Psychology 3303, Reading 2306, Reading 3332, Reading 3335, Reading 3336, Reading 3339, and Special Education 2361.

Ethnic Studies

The Ethnic Studies minor is an interdisciplinary study of race and ethnicity in the United States. The minor prepares students to be informed members of their communities and teaches them to understand and appreciate the different experiences of peoples throughout the United States. Central to this intersectional approach is a respect for diversity, a focus on marginalized voices, an understanding of power and inequality, and exposure to cultures across the country. Students may choose to specialize in Mexican American or African American Studies, or take a broader approach to their studies.

All students in the minor must take one of the following three courses: Ethnic Studies 2301, History 3362, English 4330. The additional 15 credit hours can be taken from any sophomore or advanced course options from across the disciplines. Students must take courses in at least three different disciplines, which can include their major but cannot include ESTD 2301. Students may take more than one of the required courses to count toward their 18 credits. Any transfer credits are subject to approval.

The additional fifteen hours are selected from the following courses: Communication 3355, 3366, English 4330, 4336, Ethnic Studies 2301, 4301, Geography 3302, 3303, History 3301, 3311, 3307, 3342, 3343, 3348, 3350, 3362, 4302, 4313, 4324, 4325, 4360, Mexican American Studies 2301, Mass Media 2300, Music 1305, Political Science 3341, 3348, 3351, 4311, 4353, Psychology 3323, 3325, Spanish 3334, 3314, 4320, 4324, 4332, 4333.

Students may receive 3 credit hours for an approved Special Topics course, Capstone, Internship, or Research Course. All students must communicate with the instructor their intentions to use the course for the minor, and receive approval, prior to enrolling in the course.

For more information on each of the courses, and a list of courses in the Mexican American and African American Studies specialization, visit the Ethnic Studies Minor page by searching for Ethnic Studies Minor on angelo.edu.

Film Studies

The film industry in the U.S. is a multibillion dollar business. We are increasingly a visual culture, but not necessarily a visually literate culture. The purpose of a film studies minor at ASU is to build essential literacy skills, such as interpretive, visual, verbal, critical, audio-visual, and narrative literacy to survive in today's competitive market-place. Students will acquire knowledge in film making techniques, learn how to read visual and cultural cues, and hone their skills in analyzing persuasive and rhetorical messages.

Students interested in obtaining an academic minor in film studies, an interdisciplinary study of how film is both a record of social culture and a force for cultural change, are required to take a total of 18 hours, including 6 advanced hours.

Two courses (6 hours) are required for this minor: Communication/Mass Media 1337 and English 4355. These courses will expose students who opt for a film studies minor to the basic technological, theoretical and artistic terminology and knowledge necessary to successfully interpret this art form.

Students will take an additional 12 hours from the following selected courses *: Arts 1305, Communication 3366, 4365, Computer Science 1371, 2324, 3325, English 3344, Theatre 3311, 4314, 4351, French 3339, 4328, German 3339, Psychology 3325, Russian 3339, and Spanish 3334.

Occasionally, University Studies and special topics courses will be offered in various departments which are appropriate for this minor. Students must receive permission to count such special topics courses in their film minor from the Dean of Arts and Humanities.

Finance

Finance 3361 and fifteen semester credit hours of Finance at the 3000 level or above. A total of 18 hours with a 2.00 or better GPA. Prerequisites must be met for all courses selected in this minor.

French

French 1301, 1302, 2311, 2312, and 6 hours of advanced work in French.

* Courses taken to fulfill requirements for this minor may not also be counted toward the student's major.

Gender Studies

The interdisciplinary minor in gender studies teaches students to analyze gender and sexuality as aspects of human biology, identity, and culture, thus preparing them for careers in a multicultutal workplace and/or for graduate studies in gender-related areas. Students who select this 18 hour minor must take Gender Studies 2301. The additional fifteen credit hours may come from selecting five of the following courses: Early Childhood 2305, Educational Psychology 3303, Psychology 4329, Sociology 3315, History 3347, Social Work 4321, Social Work 4327, Political Science or Philosophy 4333, and English 4337. Other courses may be eligible as substitutions pending approval by the director of the minor. A student can contact the director at gender.studies@angelo.edu.

Geography

This discipline may be used only as part of a multiple area minor. At least six semester hours of advanced work will be required in residence for each discipline.

German

German 1301, 1302, 2311, 2312, and 6 hours of advanced work in German.

Health Science Professions

The single area minor in Health Science Professions must include 18 semester credit hours with a 2.00 or better GPA. All of the HSP courses count toward completion of the minor with the exception of Health Science Professions 2101, 2102, 2301, 2302, and 4337.

The multiple area minor in Health Science Professions must include 9 semester credit hours with a 2.00 or better GPA. All of the HSP courses count toward completion of the multiple area minor with the exception of Health Science Professions 2101, 2102, 2301, 2302, and 4337.

Intelligence and Analysis

The minor in Intelligence and Analysis is an eighteen semester hour course of study consisting of INA 3310, 3320, and 12 hours of INA electives.

Journalism

Students may obtain an academic minor in Journalism by taking the following courses: Mass Media 1311, 2300, 2311, 3313, 3314, and 3363. No Mass Media majors.

Kinesiology

Kinesiology 1304, 2356, 3333, and nine additional hours of kinesiology.

Leadership Studies

Aerospace Studies 3312, 3314, Management 3304, Management 4306 or 4308, and six semester credit hours of approved electives selected in consultation with the program advisor. A total of 18 hours with a 2.00 or better GPA.

Management for Business Major

Management minor for B.B.A. majors (except for Management majors): Management 3301, 4303, and twelve semester credit hours from (choose 4): Management 3303, 3304, 3309, 3312, 3313, 3361, 4302, 4305, 4306 or 4308, 4319, 4331, 4381. A total of 18 hours with a 2.00 or better GPA. Prerequisites must be met for all courses selected in this minor.

Management for Non-Business Major

Business 1301, Management 3301 and twelve semester credit hours selected from Management courses at the 3000 level or above. A total of 18 hours with a 2.00 or better GPA. Prerequisites must be met for all courses selected in this minor.

Management Information Systems

The minor in Management Information Systems is an eighteen semester credit hour course of study consisting of Business Computer Information Systems 1305, Computer Science 1314 or 1351, Management 3343, 4344, and two courses from the following: Computer Science 3312, Management 3361, 4336, 4343. This minor requires a 2.00 or better GPA.

Marketing

Business 1301, Economics 2301, and Marketing 3321, 3322, and six hours of Marketing electives. A total of 18 hours with a 2.00 or better GPA.

Mathematics

Single area minor or multiple area minor in Mathematics must include Mathematics 2413 and six semester hours chosen from Mathematics 3300, 3301, 3305, 3307, 3324, 3335, 3415, 4301, 4311, 4321, 4331, 4335, 4351, 4355, or 4361. Mathematics 3324 cannot count as an advanced course in the minor along with Mathematics 3301 or 3335.

Music-Vocal/Instrumental

Music 1211, 1306, 3340, 3341, four semesters of major ensemble (lower division), one semester of elective major ensemble or small ensemble (lower division), MUAP 1101, and MUAP 1102.

Students interested in the minor in music-vocal/instrumental must perform an entrance audition prior to the beginning of their first semester of applied music study. Music minors enrolled in applied music must concurrently enroll in a major ensemble. Applied music requirements must be taken prior to upper division study in music.

Music Studies

MUSI 1117 or 1180 or 1181, 1211, 1306, 1312, 2311, 3340, 3341.

Physical Science

This discipline may be used only as part of a multiple area minor. At least six semester hours of advanced work will be required for each discipline.

Political Science

Political Science 2305, 2306, 6 hours of electives, and 6 hours of advanced Political Science hours.

Professional Education

All prerequisites will apply to the courses. Individuals choosing this minor will have to successfully meet all requirements required for admission to the Teacher Education Program (TEP) regardless of their degree. These courses, with additional coursework related to Student/Clinical Teaching, prepare the individual for Texas secondary teacher certification. To become fully certified additional requirements by the State of Texas must be met. This minor can only be used in conjunction with a degree leading to Texas Teacher certification. Any exception will need special permission from the Department Chair of Teacher Education. Contact the Educator Preparation Information Center Advisor for information about Texas Teacher Certification requirements. Professional Education minor: Educational Psychology 3303, Educational Psychology 3314, Education 4321, Education 4322, Education 4323, and Reading 4320.

Public Relations

Students may obtain an academic minor in Public Relations by taking the following courses: Communication 1337 or Mass Media 1337, Communication 2330, Communication 3321 or 3336, Communication 3336 or 4337, Communication 4335, and Communication 4337.

Communication or Mass Media majors may not choose the Public Relations minor.

Russian

Russian 1301, 1302, 2311, 2312, and 6 hours of advanced work in Russian.

Social Work

The Social Work Minor consists of Social Work 2307, 2316, 3307, and 9 semester credit hours from any Social Work advanced electives; and includes a total of 18 semester credit hours of course work. Minimum grade of "C" is required in all social work courses counted toward the major or minor. A dual minor is not available in social work.

Sociology

The Sociology minor consists of Sociology 1301, 1306, 3302, 3325, 4301, and 3 semester credit hours from any of the advanced sociology courses; and includes a total of 18 semester credit hours of course work.

Spanish

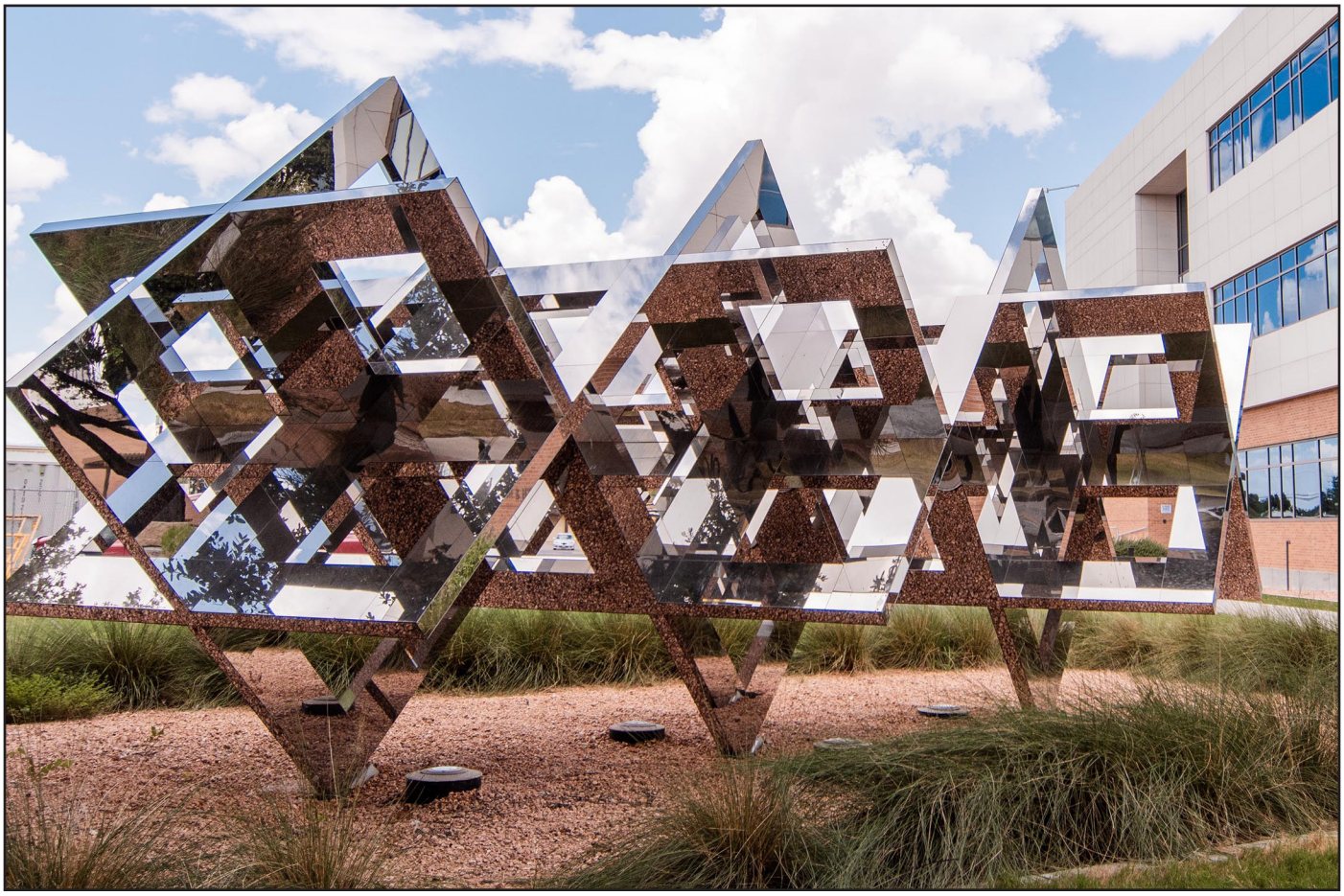
Spanish 1301, 1302, 2311, 2312, and 6 hours in upper division Spanish courses.

Technical Writing

Non-English majors may specialize in technical writing by completing 18 hours of English, including English 3351 and two additional upper-level technical and business writing courses among 3353, 3354, 4360, 4365, 4367, and 4373.

World Cultures

The minor in World Cultures is an eighteen semester credit hour course of study consisting of Cultural Competence 2323, 4350, and four additional courses from Cultural Competence 3310, 3312, Geography 3302, 3303, History 3356, 3372, or 4351.



Academic Services

Advising Requirements and Contact Information

Archer College of Health and Human Services

Students are required to see an advisor each semester. Depending on their major and the number of credit hours they have earned, they may be advised by professional advisors in the Center for Academic Excellence or by faculty advisors in their departments. For a listing of professional advisors visit Angelo State's Undergraduate Academic Advising page.

Health Science Professions. Students must see an advisor each semester until they graduate. A list of available advisors is posted throughout applicable campus buildings. Students are encouraged to contact their assigned advisor directly, or they may contact the department office coordinator to make arrangements.

Kinesiology. Students must see an advisor each semester until they graduate. A list of available advisors is posted throughout applicable campus buildings. Students are encouraged to contact their assigned advisor directly, or they may contact the departmental secretary to make arrangements.

Nursing. Students must see an advisor each semester until they graduate. The professional advisor advises pre-nursing students for the B.S.N. program up to 60 credit hours, or until students are accepted and admitted to a nursing program. The M.S.N. program advisor will advise graduate students, and advising is required prior to each semester registration. Students are encouraged to contact the department secretary for additional information.

Physical Therapy is a graduate course of study. All undergraduate advising is done by the department of the student's undergraduate degree. The Physical Therapy faculty cannot advise students on undergraduate matters. The faculty of the Physical Therapy Program is available for periodic (one per year is sufficient) counseling during a student's undergraduate studies to keep one abreast of physical therapy prerequisites and admissions policies. Once admitted to the physical therapy course of study, each student will be assigned a permanent faculty advisor for his/her graduate course of study

Psychology. Students must see an advisor each semester until they graduate. A list of faculty advisors is available in the departmental office. Students are also encouraged to visit the departmental website for advisement information.

Social Work and Sociology. All students must be advised each semester until graduation. Social Work majors and Social Work minors, must be advised by a member of the Social Work faculty each semester before they can register. Social Work minors will see their major advisor before being advised by Social Work faculty, as Social Work faculty will not remove the advising hold for your major. Students may contact the department secretary for additional information or questions. Sociology students must see a Sociology faculty for advising each semester until they graduate. A list of faculty advisors is available in the departmental office and website. Students are encouraged to visit the departmental website for advisement information.

College of Arts and Humanities

Students are required to see an advisor each semester. Depending on their major and the number of credit hours they have earned, they may be advised by professional advisors in the Center for Academic Excellence or by faculty advisors in their departments. For a listing of professional advisors visit Angelo State's Undergraduate Academic Advising page.

Communication and Mass Media. Students must see an advisor each semester until they graduate. Students are encouraged to contact the departmental office to receive their advisor assignment.

English and Modern Languages. Students must see an advisor each semester until they graduate. A list of preassigned advisors is maintained by the department's Advising Committee. Students may contact the departmental secretary or department chair for their assignment and additional advisement information.

History. Students must see an advisor each semester until they graduate. Students are encouraged to report to the departmental office for detailed instructions.

Political Science and Philosophy. Students must see an advisor each semester until they graduate. Students are encouraged to report to the departmental office for detailed instructions.

Security Studies and Criminal Justice. Students must see an advisor each semester until they graduate. Students are encouraged to report to the departmental office for detailed instructions.

Visual and Performing Arts. Students must see an advisor each semester until they graduate. A list of available advisors is included in a departmental student handbook that is circulated to all art, music, and theatre majors. Students are encouraged to contact their assigned advisor directly, or they may contact the departmental secretary to make arrangements.

College of Education

Teacher Education. Undergraduate students must contact an advisor each semester until they graduate. Advisors are located in the Educator Preparation Information Center and you can reach them by calling 325-942-2209 or stop by CARR 287. Students are encouraged to contact the department office coordinator or the department chair for additional information.

College of Science and Engineering

Students are required to see an advisor each semester. Depending on their major and the number of credit hours they have earned, they may be advised by professional advisors in the Center for Academic Excellence or by faculty advisors in their departments. For a listing of professional advisors visit Angelo State's Undergraduate Academic Advising page.

Agriculture. Students must see an advisor each semester until they graduate. The department will match advisors with students in their area of concentration. Students are encouraged to contact the departmental secretary to obtain their advising assignment.

Biology. Students must see an advisor each semester until they graduate. A list of available advisors is posted in the departmental office. Students are encouraged to contact the departmental secretary or department chair for more information.

Chemistry and Biochemistry. Students, including pre-pharmacy majors, must see an advisor each semester until they graduate. Students are encouraged to contact the department chair to obtain further information.

Computer Science. Students must see an advisor each semester until they graduate. A list of faculty advisors is available in the department office. Students may seek the assistance of an advisor at any time, and may also contact the department office for further information.

Engineering. Students must see an advisor each semester until they graduate. Students are encouraged to report to the departmental office for detailed instructions.

Mathematics. Students must see an advisor each semester until they graduate. Students may seek the assistance of an advisor at any time, and may also contact the department office for further information.

Physics and Geosciences. Students must see an advisor each semester until they graduate. A list of faculty advisors is available in the departmental office. Students are encouraged to contact the department secretary or department chair for additional information.

Norris-Vincent College of Business

All Norris-Vincent College of Business students are required to see an advisor each semester. Depending upon their major and the number of credit hours they have earned, they may be advised by professional advisors in the Center for Student Success or by faculty advisors in their academic departments. The professional advisors in the Center for Student Success are available for consultation year-round. For a listing of departmental advisors, please contact the Center for Student Success or visit the Norris-Vincent College of Business website.

Accounting, Economics and Finance. All Accounting, Economics and Finance students must see an advisor each semester until they graduate. Advisor assignments can be found on the Academic Advising website. Students are encouraged to contact their assigned advisor directly, or they may contact the AEF Office Coordinator to make arrangements.

Aerospace Studies. All AFROTC students must see an advisor each semester until they graduate. Advising instructions and assignment of advisors are provided to each student in the syllabus on the first day of class each semester. Each student/cadet is encouraged to contact the AS Office Coordinator if their instructor/advisor has not arranged to meet with him/her by the mid-point of the semester.

Management and Marketing. All Management and Marketing students must see an advisor each semester until they graduate. Advisor assignments can be found on the Academic Advising website. Students are encouraged to contact their assigned advisor directly, or they may contact the M&M Office Coordinator to make arrangements.

Freshman College

The Freshman College mission is to assist new students with a successful transition to ASU and enhance their first-year experience.

GS 1181: Freshman Seminar. GS 1181 creates a classroom environment where first-year students can interact with faculty regarding intellectual topics of mutual interest and can engage in shared inquiry and the practice of reasoning. The small size and interdisciplinary nature of signature courses foster exploration and scholarly exchange among students and with the instructor.

Center for Academic Excellence. Professional advisors in the CAE advise majors in the Archer College of Health and Human Services, the College of Arts and Humanities, the College of Science and Engineering, and undeclared students while they complete Texas Core Curriculum requirements. In an effort to help students, academic advisors assist students with an understanding of academic requirements, the development of academic goals, and an exploration of degree and course offerings.

Early Alert. When faculty become concerned about a student's excessive or frequent absences, low grades, incomplete assignments, or other at-risk behaviors, they are encouraged to make use of the Early Alert program. Early Alert assesses the student's situation, offers support, and refers the student to important resources on campus.

Up and Coming Scholars. The Up and Coming Scholars program allows worthy local high school students of good academic standing the chance to plan, prepare for, and pursue a college degree.

SWAG: Students with a Goal. Programs help students picture, plan, prepare, and pursue their academic goals.

Undeclared Exploratory Track Advising. Undeclared Exploratory Tracks are available to students who have not yet decided on a specific program of study. These tracks allow students to explore academic options while making progress toward graduation through the completion of general education requirements. Students have the option of choosing Exploratory Tracks in Arts and Humanities, Business, Education, Mathematics/Engineering/Physical Sciences/Technology, Life Sciences and Health Professions, or Social and Behavioral Sciences. Students will work closely with a professional advisor and will typically choose a specific program during their first 30 hours of course work.

Academic Success Centers

Academic Success Centers are free to all ASU students.

ASU Tutor Center. The ASU Tutor Center offers academic support for a variety of subjects and disciplines such as accounting, anatomy, biology, business, chemistry, economics, history, nursing, physics, and physiology. No appointments are necessary.

Supplemental Instruction (SI). Supplemental Instruction is an academic assistance program that uses peer-led group study to help students succeed in traditionally difficult courses. SI consists of regularly scheduled, out-of-class group study that gives students an opportunity to meet with classmates to compare notes, discuss readings and key course concepts, develop study skill strategies and prepare for exams.

Math Lab. The Math Lab is available to all ASU students enrolled in first- and second-year mathematics courses. Math Lab staff provide help with homework assignments and offer additional explanations of concepts and procedures. The Math Lab is open year-round with drop-in service only.

Writing Center. The Writing Center serves all ASU undergraduate and graduate students, offering one-on-one conferences about writing, catering to students from any discipline, at any skill level, and at any stage of the writing process. The Writing Center serves all students on a drop-in basis only.

Online Tutoring. ASU students can schedule an online tutoring appointment via the Academic Tutoring homepage.

Information Technology

Angelo State University is committed to providing students access to technology and electronic resources needed to enhance the teaching and learning environment. Students have access to many services such as registering for classes, checking grades, and paying tuition our portal, Ramport. The online learning management system enables students to submit assignments, take tests, check grades, and interact with fellow classmates and their faculty member anytime, anywhere. The campus-wide mobile friendly network allows you to connect your laptop, tablet or smartphone to access technology services including specialized coursework software. Students can tour the campus, meet the President, review the University calendar and current course offerings, submit applications, read the RAM Page (school newspaper), browse the library's holdings and access full text documents and articles from any location in the world using Angelo State University's portal and web services.

Angelo State University utilizes a robust network infrastructure to provide electronic access to information for the ASU Community. For on-campus residents, all of the residence halls have wireless connectivity throughout the buildings as well as in the resident's room. Wireless connectivity is also available in all buildings on campus and many outdoor areas. As part of the university's ongoing commitment to leveraging technology within the learning environment, the majority of the classrooms and other learning areas are equipped with technology to complement teaching within the specialized academic disciplines. The Library Learning Commons provides access to a technology rich and mobile friendly environment which includes large flat panel displays to which students can connect laptops and other devices; laptop computers and hotspots for checkout; enhanced wireless connectivity; and traditional personal computers. Electrical outlets are conveniently located throughout the Library Learning Commons for students to utilize and recharge digital devices. If you have a problem or question about technology services, a 24-hour technology service center is available to all students (on-campus and off-campus) to assist with technology questions and requests.

Porter Henderson Library

The Porter Henderson Library provides an array of resources in support of all degree programs offered at ASU. The Library's holdings compare favorably with the national average among peer institutions and include both physical and digital resources such as books, journals and periodicals, government documents, audio-visual material, and archival collections. Electronic databases and online services create reliable access to all of ASU's modalities for teaching and learning.

Library facilities contain nearly 100,000 square feet where students browse resources, collaborate in group study rooms, and enjoy quiet study areas. The Learning Commons on the building's first floor features a variety of collaborative spaces in a technology-rich environment. Through Interlibrary Loan and cooperative agreements with other libraries, ASU's students and faculty members may request additional resources for research and classroom assignments. Library staff contribute one-on-one guidance as well as scheduled class sessions for all patrons to improve their research with information literacy skills.

The Library shares the building's third floor with the Freshman College, the Communication and Mass Media (CMM) Department, Advising Center, Tutoring Center, Writing Center, and the Honors Program. This floor also has classrooms, offices, a television studio, and climate-controlled storage space for rare, archival and historical resources. The Library's local history and special collections unit, the Dr. Ralph R. Chase West Texas Collection, is located on the first floor of the ASU Mayer Museum.

Course Descriptions

Accounting (ACCT)

2301/ACCT 2301 Principles of Accounting I - Financial (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.

Prerequisite: Mathematics 1314 or 1324 or 1342.

2302/ACCT 2302 Principles of Accounting II - Managerial (3-0). Introduction to cost behavior, budgeting, responsibility accounting, cost control and product costing.

Prerequisite: Accounting 2301.

3305 Accounting Information Systems (3-0). Analysis, design, and applications of accounting information systems with consideration of related internal control issues and management use of information.

Prerequisite: Accounting 3311.

3311 Financial Accounting and Reporting I (3-0). A study of the financial accounting environment and development of accounting theory. Integration of conceptual and computational aspects of the accounting cycle and financial statements, including preparation of statements.

Prerequisite: Accounting 2301.

3312 Financial Accounting and Reporting II (3-0). A continuation of the study of financial accounting environment and development of accounting theory. Emphasis placed on understanding the recognition, measurement, and reporting of revenue, assets, liabilities and stockholders' equity.

Prerequisite: Accounting 3311.

3313 Financial Accounting and Reporting III (3-0). A final undergraduate course in the study of the financial accounting environment and development of accounting theory. Emphasis is placed on deferred taxes, leases, and more complex topics..

Prerequisite: Accounting 3311.

3331 Cost Accounting (3-0). Accounting principles and procedures for product costing, control, and decision making with emphasis on the use of costs by management.

Prerequisites: Accounting 2302 and Business Computer Information Systems 1305.

3361 Income Tax Accounting (3-0). Current income tax law and tax accounting procedures, preparation of income tax returns for individuals.

Prerequisite: Accounting 2301.

4303 Auditing (3-0). Theory, practice, and procedures of auditing for public accountants and internal auditors; auditing standards and ethics; development of audit programs; and preparation of working papers and audit reports.

Prerequisites: Accounting 3311 and Accounting 3305.

4362 Advanced Tax Accounting (3-0). Tax regulations applicable to partnerships, corporations, estates, gifts, and trusts.

Prerequisite: Accounting 2301.

4371 Internship in Accounting. Students will participate in a structured work experience. A pass or fail grade will be assigned by the instructor based on input on student performance by the employment supervisor using the required weekly journals prepared by students. (Course may be repeated once for credit with permission of the instructor or department chair.)

Prerequisite: Permission of the instructor.

4381 Special Topics (3-0). Selected topics in accounting. May be repeated once for credit when topic varies.

4391 Research. A specialized course which may be directed reading or research for superior students in accounting.

Prerequisite: Senior standing.

Aerospace Studies (AS)

1111, 1113 Leadership Laboratory (0-3). Laboratory experience to accompany Aerospace Studies 1112 and 1114. Students will gain a practical knowledge of customs and courtesies, drill and ceremonies, the environment of an Air Force base and career opportunities available to commissioned officers. Physical fitness activities are also an integral part of the lab experience (dates and times are announced during the semester). Grading will be either pass or fail.

1112 Heritage and Values of the United States Air Force (1-0). A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Additional topics include customs and courtesies, dress and grooming standards, officership, officer opportunities and benefits will be discussed. Group leadership problem-solving and basic communicative skills will be demonstrated. (Offered in fall only.)

1114 Heritage and Values of the United States Air Force (1-0). A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Additional topics include mission and organization of the Air Force. The transition from cadet to officer is discussed, along with a survey of Air Force leaders and key events in U.S. history. Group leadership problem-solving and basic communicative skills will be demonstrated. (Offered in spring only.)

2111, 2113 Leadership Laboratory (0-3). Laboratory experience to accompany Aerospace Studies 2112 and 2114. This experience can be classified as the initial leadership experience prior to Field Training. Activities include: emphasis on customs and courtesies, drill and ceremonies, and giving military commands. Instructing, correcting and evaluating the preceding skills are also part of the training. Physical fitness activities are also an integral part of the lab experience (dates and times are announced during the semester.) Grading will be either pass or fail.

2112 Team and Leadership Fundamentals (1-0). Focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The course will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. (Offered in fall only.)

Aerospace Studies (AS) continued

2114 Team and Leadership Fundamentals (1-0). Focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The course will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. (Offered in spring only.)

3111, 3113 Leadership Laboratory (0-3). Laboratory experience to supplement Aerospace Studies 3312 and 3314. This experience begins the leadership and management experience for Air Force officer candidates. Cadets are intimately involved in the planning, organizing, coordinating, directing and controlling of all cadet corps operations. Cadets prepare briefings and presentations to enhance the laboratory period and motivate other cadets to higher levels of performance. Physical fitness activities are also an integral part of the lab experience (dates and times are announced during the semester). Grading will be either pass or fail.

3312 Leading People and Effective Communication (3-0). Teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. (Offered in fall only.)

3314 Leading People and Effective Communication (3-0). Teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. (Offered in spring only.)

4111, 4113 Leadership Laboratory (0-3). Laboratory experience to supplement Aerospace Studies 4312 and 4314. This experience comprises the advanced leadership and management experience for Air Force officer candidates. Cadets are intimately involved in the planning, organizing, coordinating, directing, and controlling of all cadet corps operations. Cadets prepare briefings and presentations to enhance the laboratory period and motivate the performance of other cadets. Physical fitness activities are also an integral part of the lab experience (dates and times are announced during the semester). Grading will be either pass or fail.

4312 National Security Affairs/Preparation for Active Duty (3-0). This course is designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. Special topics of interest focus on national security processes, regional studies, advanced leadership ethics, Air Force doctrine and joint military doctrine. Individual and group presentations, written reports and student-led seminars are expected. (Offered in fall only.)

4314 National Security Affairs/Preparation for Active Duty (3-0). This course is designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. Special topics of interest include military justice, war fighting principles, transition to active duty, the military as a profession and current issues affecting the military profession. Individual and group presentations, written reports and student-led seminars are expected. (Offered in spring only.)

Field Training. Air Force ROTC Field Training is offered during the summer months at Maxwell Air Force Base, AL. Students participate in two weeks of Field Training between their sophomore and junior years before they can enter the Professional Officer Corps (POC). The major areas of study in the Field Training program include junior officer training, survival training, marksmanship, deployments, leadership, base functions, Air Force environment, and physical training. Successful completion of field training is mandatory for those wishing to commission as an Air Force Officer.

Agriculture (AG)

1191 Agriculture Research. (Independent) Individual research problems. Students interested in research at an introductory level.

Prerequisites: Student must be in the freshman research program and have permission of the department.

1391 Agriculture Research. (Independent) Individual research problems. Students interested in research at an introductory level.

Prerequisites: Agriculture 1191. Student must be in the freshman research program and have permission of the department.

4091 Internship Credit: 1 to 9. A supervised course providing practical on-the-job experience in the student's minor. Grading will be either pass or fail. Student may repeat course for up to a maximum of 9 hours credit.

Prerequisites: Senior standing and approval of department chair; 2.50 or better GPA in major and overall.

Agricultural Economics (AGEC)

2317/AGRI 2317 Introductory Agricultural Economics and Business (3-0). Orientation to Agricultural supply businesses, farm and ranch management, food markets, capital markets, etc. Course will provide an overview of the role of agriculture in the U.S. and world economies.

3330 Agricultural Marketing and Price Analysis (3-0). This course provides students with an introduction to how agricultural products move through markets, and the quantitative skills necessary to analyze price changes in markets. Topics covered include market structures, interactions between buyers and sellers in different market structures, consumer behavior, and the agribusiness supply chain.

3331 Farm and Ranch Business Management (3-0). An overview of the specific concepts and skills related to organization and management of small businesses, including farms, ranches, input suppliers, and commodity processors. Course topics include the economics of farm production, financial analysis and control using the recommendations of the Farm Financial Standards Council, and developing operating and cash flow budgets.

Agricultural Economics (AGEC) continued

4305 Agricultural Policy and Analysis (3-0). This course provides an introduction to the application of economic principles to the analysis of public policy, highlights important policies that affect agriculture and agribusiness, and explains how these policies affect agricultural production.

4306 International Agricultural Trade and Marketing (3-0). An overview of the economic, management, and marketing principles related to producing and selling agricultural products in a international environment. Course topics include the economics of international trade, the institutions involved in importing and exporting agricultural products, and the policies that govern international trade.

4317 Commodity and Futures Trading (3-0). This course provides an overview of the basic concepts related to interacting with commodities and futures markets. An economic perspective will be used to analyze the use of these markets as management tools.

4331 Farm and Ranch Management (3-0). Principles of farm and ranch organization and management. Development of a business plan to include executive summary of business, resource inventory, SWOT analysis, legal and liability assessment, goals, production plans, financial analysis and marketing plans.

4335 Risk Management (3-0). This course introduces students to the principles and techniques of risk management in agriculture and agribusiness industries.

4342 Agribusiness Statistics (2-2). Statistical methods with applications in agribusiness and resource management.

4351 Land and Natural Resource Economics (3-0). Economic analysis of resource issues, policies and management. Issues could include: land fragmentation, mineral extraction issues, conservation easement and development rights, urbanization, renewable resources, carbon sequestration, property rights and water rights.

4381 Special Topics (3-0). A course dealing with selected topics in agricultural economics. (May be repeated once for credit when topic varies.)

4391 Agricultural Economics Research. Individual research problems. May be repeated to a total of six semester hours credit.
Prerequisite: Junior standing.

Agricultural Science and Leadership (AGSC)

2300 Introduction to Agriculture Science (3-0). An introduction to the field of agriculture science concepts as addressed in Texas public school curricula.

2302 Principles of Effective Technology Use in Agriculture Science (3-0). Computer hardware and software used in agriculture science in Texas public schools.

2310 Floral Design (2-2). Principles of design illustrated with the utilization of floral components; floral design elements and associated techniques including text, color, form and line, The history and utilization of the art form floral design and its impact on society.

3302 Welding and Metal Work (2-2). Basic principles of welding and metalwork, including an introduction to basic metallurgy, cutting and joining metals, use of oxyacetylene, electric arc welding, and plasma arc welding. Emphasis on understanding properties and theory of welding of various metals.

3313 Management of Supervised Agricultural Experience Programs (3-0). Provide students with the theory and application for working with youth in the selection, management and record keeping procedures used with supervised agricultural experience programs and youth projects.

3331 Agricultural Youth Leadership Organizations (3-0). Principles and application of leadership skills commonly taught in youth agricultural organizations. Emphasis on youth leadership development events and seamlessly integrating activities and curriculum.

4304 Methods of Teaching Agriscience in the Secondary School (3-0). Exploring methods of teaching agriculture science in the classroom.

4310 Systems in Agricultural Mechanics (2-2). Physical science applications to systems in agricultural mechanics. Topics include electricity, plumbing applications, land measurement, and environmental control as well as, internal combustion engine operation and theory.

4391 Agricultural Science Problems (3-0). Individual investigation related to agricultural science or leadership. (May be repeated for credit.)
Prerequisite: Approval of department chairperson.

Animal Science (ASCI)

1309/AGRI 1309 Technology in Agriculture and the Sciences (3-0). Introduces a basic understanding of the operation and use of technology for agricultural/science problems with emphasis on hardware, data input and manipulation, document planning and preparation, computer graphics, and communications.

1319/AGRI 1319 Principles of Animal Science (2-2). An introduction to fundamental principles of animal science, including the economic impact of animal agriculture upon the United States and the world, animal genetics, anatomy and physiology, growth, reproduction, artificial insemination, lactation, egg laying, nutrition, animal disease, animal research; laboratory includes visits to animal industries in the area, livestock selection.

2242 Livestock Practicum (0-4). Provides students an opportunity to learn skills required in handling and raising livestock. Students with little or no livestock background would gain general livestock knowledge that will be useful in future animal science classes.

2341 Live Animal-Carcass Evaluation (2-2). A study of evaluation methods relating live animal traits to carcass traits of meat animals.
Prerequisite: Animal Science 1319.

3241 Livestock Meat and Wool Evaluation (1-3). A study of the factors involved in the visual evaluation of sheep, goats, beef cattle, swine, and their meat. (May be repeated once for credit.)

Animal Science (ASCI) continued

3320 Animal Nutrition and Feeding (2-2). Nutritional functions of nutrients and their digestion, absorption and use and forage feedstuff characteristics and procession; nutritional requirements, ration formulation and feeding methods for farm animal. General course for non-animal science majors.
Prerequisite: Animal Science 1319.

3332 Principles of Animal Nutrition (3-0). Basic principles of animal nutrition, including digestion, absorption, and metabolism of food nutrients; characteristics and functions of the essential nutrients; the measurement of body needs and feed values.
Prerequisite: Animal Science 1319.

3342 Applied Animal Nutrition (2-2). Defining feedstuffs; nutritional requirements of animals; nutritional characteristics of feeds; ration formulation.
Prerequisites: Animal Science 1319, 3332.

3350 Diseases in Livestock Production (3-0). An introduction to diseases in livestock including cattle, sheep, goats and swine. There will be further discussion of control and prevention for common infectious and non-infectious diseases.

3443 Genetics of Livestock Improvement (3-2). Genetic principles and their application to the improvement of livestock through selection and mating.
Prerequisite: Junior standing.

3449 Animal Anatomy and Physiology (3-2). A study of the structure and function of the cells, tissues, organs, and systems of the body of farm animals.
Prerequisite: Animal Science 1319.

4181 Seminar in Animal Science (1-0). A course designed to acquaint the student with basic literature of the discipline and to encourage an exchange among animal science majors and faculty members on selected topics. (May be repeated once for credit.)
Prerequisites: Senior standing and Animal Science 1319.

4191, 4391 Research. Individual research problems. (May be repeated to a total of six semester hours credit.)
Prerequisites: Junior standing and Animal Science 1319.

4242 Advanced Livestock, Meat, and Wool Selection (1-3). A study of the factors involved in the visual evaluation of sheep, goats, beef cattle, swine, and their meat and fiber. (May be repeated once for credit.)
Prerequisite: Animal Science 3241.

4342 Sheep and Goat Science (2-2). Methods of breeding, feeding, management, and marketing of commercial and purebred sheep and goats; production and marketing of animal fibers.
Prerequisites: Senior standing and Animal Science 1319.

4343 Beef Cattle Science (2-2). Methods of breeding, feeding, management, and marketing of commercial and purebred cattle.
Prerequisites: Senior standing and Animal Science 1319.

4344 Animal Reproduction (2-2). Anatomy and physiology of the reproductive systems of farm animals; methods for increasing reproductive efficiency in farm animals.
Prerequisite: Animal Science 1319.

4345 Animal Behavior and Welfare (3-0). Basic Principles of animal behavior, physiology of behavior, stress, welfare and training of animals. Applications of behavior of livestock to their management and welfare.
Prerequisite: Animal Science 1319.

4381 Special Topics (3-0). A course dealing with selected topics in animal science. (May be repeated once for credit when topic varies.)

Art (ARTS)

1301/ARTS 1301 Introduction to Art (3-0). A course designed to lead to a basic understanding and increased enjoyment of the visual arts. For non-art majors/minors only. Option for education majors with an art emphasis.

1302 Primary Art (3-0). A course designed to convey essential artistic concepts, design principles, and theoretical aspects as related to an understanding of the visual arts and how this understanding applies to the development of the child and his/her potential creativity.

1303/ARTS 1303 Art History I (3-0). A survey of architecture, painting, and sculpture from prehistoric times to the Romanesque period of the Middle Ages.

1304/ARTS 1304 Art History II (3-0). A survey of architecture, painting, and sculpture from the Gothic period of the 13th century through the modern era.

1305 Art and Film (3-0). A survey of the use of the visual arts in film, from the earliest days to current trends. This course is intended for non-art majors.

1311/ARTS 1311 Design I (0-6). The study of the organization of visual elements and principles of design.

1312/ARTS 1312 Design II (0-6). Opportunities in experimentation and analysis of creative design problems.

1316/ARTS 1316 Drawing I (0-6). Fundamentals of drawing in a variety of media.

1317/ARTS 1317 Drawing II (0-6). Exercises in drawing in various media and a study of techniques used by historical and contemporary artists.

2316/ARTS 2316 Painting I (0-6). A studio-laboratory study of procedures and purposes which develop basic painting techniques.
Prerequisites: Arts 1311, 1316.

2326/ARTS 2326 Sculpture I (0-6). A study of the fundamental concepts in form, using clay modeled over armatures and cast in plaster, carving, and assemblage techniques.

2333/ARTS 2333 Printmaking I (0-6). A study of the processes of printing using relief, intaglio, stencil, and planographic methods.

Art (ARTS) continued

2346/ARTS 2346 Ceramics I (0-6). Basic techniques of ceramic production; investigation into the artistic process of creating ceramic art forms. Emphasis on actual ceramic production.

2373 Digital Design (0-6). A foundation course centered on the manipulation of the elements of art with the use of the computer.

3303 Branding and Marketing (0-6). This course will explore the principles of branding, design and the key elements to build an effective brand strategy. It enables students to manage a corporate identity design project from start to finish. The course's primary focus will be concept development, graphical execution, time management, and presentation skills. Students will learn how to build, manage, and protect a brand.

3310 History of Graphic Design (3-0). An in-depth view of the evolution and development of Graphic Design from its early pictograph origins to modern design and the influential movements and innovations that came between; this course provides the foundation for analysis and interpretation of visual communication.

3311 Drawing III (0-6). Emphasis will be placed on contemporary drawing techniques, visual communication, and styles. (May be repeated for credit.)

Prerequisites: Arts 1311, 1316, 1317.

3312 Figure Drawing (0-6). Focuses on the development of understanding the proportions and aspects of the human figure, while encouraging individual interpretation. (May be repeated once for a total of six credit hours with the consent of the instructor.)

Prerequisites: Arts 1311, 1316, 1317.

3313 Modern Art (3-0). An examination of the development of modern painting and sculpture from the late eighteenth century to the present. Emphasis is placed on the evolution of style, philosophical content, and historical relevance.

3315 Art in the Early Modern Period (3-0). The development of painting, sculpture, and architecture from the late thirteenth century to the end of the sixteenth century. Emphasis is placed on the context of philosophic, social, and theological concepts of the period.

3319 Art of the Ancient World (3-0). A study of the history of architecture, painting, and sculpture of the classical ancient world (c. 4000 BCE – 400 CE).

3323 Watercolor II (0-6). A continued study in basic watercolor techniques with added emphasis on extended and varied creative approaches. (May be repeated for credit with consent of instructor.)

3332 Ceramics II (0-6). Emphasis on wheel production, glaze formulation, kiln construction, and firing techniques. (May be repeated for credit with consent of instructor.)

3333 Ceramics III (0-6). An advanced course designed for the exploration of ceramics as a sculptural vehicle. Emphasis is placed on students ability to perceive the relationship between the idea to the finished three dimensional sculpture. (May be repeated for credit with consent of instructor.)

3342 Watercolor I (0-6). A study of the fundamental methods and procedures which are required for working with water soluble paint, especially transparent watercolor.

3350 Graphic Illustration (0-6). Problems in illustration making use of various media, combined with a study of techniques used in the reproduction methods of the graphic arts industry.

3356 Digital Imagery (0-6). Introduction to the basics of digital imagery. Includes camera operation, techniques, visual aesthetics, and presentation skills. Emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics.

3362 Printmaking II (0-6). Opportunities for specialization and experimentation in printmaking processes. (May be repeated for credit with consent of instructor.)

3371 Typography (0-6). A course designed to explore typographical form in the graphic arts as a means of social and commercial communication. Application of typographical principles and analysis of design will be stressed. (May be repeated for credit with consent of instructor.)

4302 The Global Medieval World (3-0). This course studies the art and architecture of the global medieval world from the fourth through the fourteenth centuries. The geographic/cultural focus of the class will vary, and may include topics from Europe, the Islamic world, the Byzantine Empire, and Asia.

4304 Arts in the 18th and 19th Centuries (3-0). This course studies the art and architecture of the 18th and 19th centuries. The focus of the class will vary, and may include topics from various global contexts.

4310 Typography II (0-6). This course builds upon the basic content discussed in Typography I (letterform, layout, grouping and hierarchy). The primary objective of Typography II relies upon further exploration of these essential fundamentals in solving more complex typographic design problems. Students will examine and gain an understanding of the function of typography as a visual element within the larger context of graphic communication.

4313 2D Animation (0-6). This course is a basic introduction to time-based media. It is designed to instill an understanding of animation principles and produce quality 2D Digital animations implementing these principles and exploring various techniques. Students will learn motion graphics planning and production process while exploring how to combine audio, images, type, and video using Adobe After Effects. They also gain an introductory knowledge of the forms of 2D animation and its history. Equal emphasis will be placed on the development of professional work practices, creative problem-solving techniques, and critical thinking skills. Competency will reflect a mastery of animation skills and applications, and an ability to apply learned skills to creative projects.

4314 Computer Interaction Design (UI/UX-Web and Interactive Design) (0-6). The course focuses on the role of the interaction between a user and the product. Students will use ethnographic and other forms of research to help inform design decisions for physical and virtual products. Wireframing and rapid prototyping will be employed to reinforce students' conceptual and problem-solving skills.

Art (ARTS) continued

4321 Painting II (0-6). Advanced studio-laboratory study of procedures and purposes which develop painting techniques with emphasis on individual expression. (May be repeated for credit with consent of instructor.)

4324 Painting III (0-6). A continuation of the development of painting skills, including use of the human form as subject matter. (May be repeated for credit with consent of the instructor.)

Prerequisite: Arts 4321.

4325 Arts Practicum (0-0-6). This course allows the student to work with the instructor through field-related experiences. The instructor works as the manager with the student on a variety of projects taken from business and industry. The course allows the student to gain experience and understanding of the field in a job-like environment. (May be repeated for credit with consent of the instructor.)

4341 Sculpture II (0-6). Studies in sculpture based on fundamental principles included in Art 3341 but with greater emphasis on individual expression. (May be repeated for credit with consent of instructor.)

4342 Sculpture III (0-6). Opportunities for specialization in experimental sculpture techniques, including mixed media and installation art. (May be repeated for credit with consent of instructor.)

4362 Printmaking III (0-6). Opportunities for specialization in etching and various photographic methods of printmaking.

4370 Advanced Computer Application in the Graphic Arts (0-6). Focuses on the individual creative solutions derived from the use of computer imaging. (May be repeated for credit with consent of instructor.)

4371 Internships. An in-service program with campus and/or local establishments as assigned on an individual basis. Arrangements for the art internship must be made with the instructor during the semester prior to participation in the internship.

Prerequisites: Completion of area of specialization and consent of instructor.

4372 Portfolio Preparation (0-6). Focuses on the development of the student's individual portfolio. Presentation and marketing skills will be developed. (May be repeated for credit with consent of instructor.)

4378 New Concepts in Art (3-0 or 0-6). This course will allow students to explore new trends in the visual arts either in the context of a studio laboratory experience or within the form of a seminar in which contemporary thought in the visual arts are discussed and analyzed. (May be repeated for credit with consent of instructor.)

4380 Ceramic Chemistry (0-6). The composition, properties, and use of materials in glazes. Calculation of glaze formulas and batches. Laboratory exercises in development of color and texture. (May be repeated for credit with consent of instructor.)

4381 Special Topics (3-0 or 0-6). A course dealing with selected topics in art. (May be repeated once for credit when topic varies.)

4391 Research. A specialized course which may be directed reading or research for superior students majoring in art.

Prerequisite: Junior standing.

Biology (BIOL)

1106/BIOL 1106 Principles of Biology I Laboratory (0-3). Laboratory designed to reinforce lecture topics of Biology 1306 and develop analytical skills essential to the practice of biology. Students must register for Biology 1306 concurrently. Recommended as a second semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

1107/BIOL 1107 Principles of Biology II Laboratory (0-3). Laboratory designed to reinforce lecture topics of Biology 1307 and develop analytical skills essential to the practice of biology. Students must register for Biology 1307 concurrently. Recommended as a first semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

1108/BIOL 1108 Human Biology Laboratory (0-2). Laboratory designed to reinforce lecture topics of Biology 1308. Co-registration for Biology 1308 is suggested. Not intended for Biology majors.

1109/BIOL 1109 Man and the Environment Laboratory (0-2). Laboratory designed to reinforce lecture topics of Biology 1309. Co-registration for Biology1309 is suggested. Not intended for Biology majors.

1306/BIOL 1306 Principles of Biology I (3-0). An introduction to the unifying principles of biology with emphasis on biological chemistry, energetics and homeostasis, cell structure and function, gene expression, and patterns of inheritance. Students must register for Biology 1106 concurrently. Recommended as a second semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

1307/BIOL 1307 Principles of Biology II (3-0). An introduction to the unifying principles of biology with emphasis on biological diversity, evolution, and ecology. Students must register for Biology 1107 concurrently. Recommended as a first semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

1308/BIOL 1308 Human Biology (3-0). An introductory owner's manual to the human body for nonbiology majors. Includes fundamentals of human anatomy and the functions of the major systems of the body, contemporary health issues, human heredity, and human evolution. Co-registration for Biology 1108 is suggested.

1309/BIOL 1309 Man and the Environment (3-0). A introductory owner's manual to Earth for nonbiology majors. Includes a survey of contemporary ecological concepts that affect man's life, values, and culture. Topics include the biosphere and ecosystems, adaptation, environmental pollution, waste management, conservation, population growth, and world food problems. Co-registration for Biology 1109 is suggested. Not intended for Biology majors.

Biology (BIOL) continued

1406/BIOL 1406 Principles of Biology I (3-3). An introduction to the unifying principles of biology with emphasis on biological chemistry, energetics and homeostasis, cell structure and function, gene expression, and patterns of inheritance. Laboratory is designed to reinforce lecture topics and develop analytical skills essential to the practice of biology. Recommended as a second semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

1407/BIOL 1407 Principles of Biology II (3-3). An introduction to the unifying principles of biology with emphasis on biological diversity, evolution, and ecology. Laboratory is designed to reinforce lecture topics and develop analytical skills essential to the practice of biology. Recommended as a first semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

1408/BIOL 1408 Human Biology (3-2). An introductory owner's manual to the human body for nonbiology majors. Includes fundamentals of human anatomy and the functions of the major systems of the body, contemporary health issues, human heredity, and human evolution.

1409/BIOL 1409 Man and the Environment (3-2). A introductory owner's manual to Spaceship Earth for nonbiology majors. Includes a survey of contemporary ecological concepts that affect man's life, values, and culture. Topics include the biosphere and ecosystems, adaptation, environmental pollution, waste management, conservation, population growth, and world food problems.

1411/BIOL 1411 General Botany (3-3). 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. Laboratory activities will reinforce these fundamental biological concepts.

Prerequisite: Credit for Biology 1306/1106 or 1307/1107.

1413/BIOL 1413 General Zoology (3-3). A consideration of the structural adaptations of animals. Laboratory will emphasize classification and comparative anatomy within the Kingdom Animalia.

Prerequisite: Credit for one semester of introductory biology for majors (Biology 1306/1106, 1307/1107).

2123 Human Anatomy Laboratory (0-3). Laboratory designed to reinforce lecture topics of Biology 2323. Students must register for Biology 2323 concurrently.

2124 Human Physiology Laboratory (0-3). Laboratory designed to reinforce lecture topics of Biology 2324. Students must register for Biology 2324 concurrently

2320 Medical Terminology (3-0). Study of common medical terminology used in oral and written communications in the health professions. Terminology describing anatomical, physiological, and pathological conditions will be studied, including those used in diagnostic procedures and treatments. Special emphasis on root words, medical prefixes and suffixes, pronunciation, abbreviations, and symbols.

2323 Human Anatomy (3-0). The study of the structure of cells, tissues, organs, and systems of the human body. Students must register for Biology 2123 concurrently.

2324 Human Physiology (3-0). The study of the normal functions of the cells, tissues, organs, and systems of the human body. Students must register for Biology 2124 concurrently.

Prerequisite: Credit for Biology 2323 or 2423.

2403 Comparative Plant and Animal Physiology (3-3). A general introduction to how plants and animals function, comparative in approach and stressing the principles of physiology which govern the degree of environmental adaptation.

Prerequisites: Biology 1411, 1413.

2406/BIOL 2406 Environmental Biology (3-3). Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. Does not apply toward the biology minor or major.

2419 Computational Biological Analysis (3-3). Computational Biological Analysis is an online course for any STEM program, requiring no prior programming knowledge. It provides an introduction to Python, a programming language essential for diverse biological research areas, including data handling, metadata extraction, specific biological analyses, and artificial intelligence applications. The course covers Python fundamentals such as variable manipulation and data types and introduces multiple modules for varied biological applications. By the end of the semester, students will have a comprehensive understanding of Python, equipping them with the skills to explore various biological fields and computational methods, whether in research or other applications.

2420/BIOL 2420 Microbiology for Non-Science Majors (3-2). The study of infectious disease processes including host-microbe interactions and medical intervention. Laboratory includes basic microbiological methodology and case studies.

Prerequisites: Biology 2323/2123 or Health Science Professions 2301/2101; Biology 2324/2124 or Health Science Professions 2302/2102 are recommended.

2423 Human Anatomy (3-3). The study of the structure of cells, tissues, organs, and systems of the human body.

2424 Human Physiology (3-3). The study of the normal functions of the cells, tissues, organs, and systems of the human body.

Prerequisite: Credit for Biology 2323/2123.

3101 Genetics Laboratory (0-2). Problem solving in genetics including use of online resources. Optional laboratory to accompany Biology 3301.

Prerequisite: Concurrent enrollment or credit in Biology 3301.

3301 Genetics (3-0). This is a course in general genetics. Topics are organized into three major areas: classical genetics, cytogenetics and molecular genetics.

Prerequisite: Credit for Biology 1306/1106 and 1307/1107, or Biology 2323/2123 and 2324/2124, with a grade of "C" or better.

Biology (BIOL) continued

3302 Medical Genetics (3-0). A study of the role of genetics in human health with emphasis placed upon the mechanisms, methods of diagnosis and current treatment of genetic diseases. Course work will involve case studies and problem sets and will include learning to use a computer data base to retrieve information on human genetic diseases.

Prerequisite: Must have completed Biology 3301 with a grade of "A".

3305 Medical Botany (3-0). An introduction to pharmacognosy and humanistic botany, including a discussion of the major food plants, special medicinal plants, plant hallucinogens, poisonous plants, and other economically important plants.

Prerequisite: Credit for one semester of biology or consent of instructor.

3333 Natural History of the Concho Valley (3-0). A study of the relationship among geology, soils, climate, plants, animals, and recent human history in the Concho Valley region of Texas. Emphasis will be placed on understanding woody vegetation and vertebrate animals of the region.

3403 Cell Biology (3-3). Study of the morphology, function, biochemistry and molecular biology of cells and organelles. Laboratory work will involve the practice and application of techniques to cell biology.

Prerequisites: Biology 1306/1106, 3301, and two semesters of chemistry.

3411 General Microbiology (3-3). The major areas in the field of microbiology are surveyed, with special emphasis given to the bacteria. Groups of microorganisms are characterized in sufficient detail to reveal their nature. Fundamental concepts of biology and basic biological processes common to all forms of life are emphasized. Laboratory methods are stressed, and detailed studies are made of pure cultures.

Prerequisite: Credit for Biology 1306/1106 and 1307/1107, or Biology 2323/2123 and 2324/2124, with a grade of "C" or better.

3412 Pathogenic Microbiology (3-3). The relationship of microorganisms to human disease with an emphasis on bacteria. Elements of immunity and diagnosis and treatment of infection will be covered. This course includes a heavy emphasis on the role and application of laboratory work.

Prerequisites: Any three of the following courses each with a grade of "C" or better: Biology 1306/1106, 1307/1107, 1413, 2323/2123, 3301, 3411 or 3412, or by special departmental approval.

3413 Immunology (3-3). A study of the specific cellular and humoral responses of the animal body to microorganisms and certain other extrinsic and intrinsic agents. Lab emphasizes applications of immunology to research and medical conditions.

Prerequisites: Any three of the following courses each with a grade of "C" or better: Biology 1306/1106, 1307/1107, 1411, 1413, 223/2123, 3301, 3411 or 3412, or by special departmental approval.

3421 Histology (3-3). The microscopic study of normal cells, tissues, organs, and systems of the human body with emphasis on integration of microscopic structure with physiology, embryology, and other areas of biology.

Prerequisites: Credit for two of the following courses in biology for majors (Biology 1306/1106, 1413, 2323/2123 or 2324/2124).

3461 Entomology (3-3). General entomology: a survey of the important orders and families of insects with emphasis on the natural history, systematics, taxonomy, and physiology of the group. Laboratory will include field trips with required collection and identification of local representative taxa.

Prerequisite: Biology 1413 or consent of instructor.

4061 Internship: Credit 1 to 6. A supervised course providing practical on-the-job experience in the student's major. Grading will be either pass or fail.

Prerequisites: Sophomore standing and approval of department chair. 3.00 or better GPA in major and overall.

4181 Seminar in Biology (1-0). A course designed to acquaint the student with the basic literature of the discipline and to encourage an exchange among biology majors and faculty members on selected topics.

4191, 4291, 4391 Research. Individual research problems for superior students majoring in biology. (May be repeated to a total of six semester hours credit.)

Prerequisites: Junior standing. Approval from the Chair of the Department is required prior to enrollment.

4301 Conservation Biology (3-0). Theory and practice of conservation biology with emphasis on the maintenance of species diversity, factors affecting extinction, genetic impacts of rarity, and practical management considerations, including design of reserves and captive breeding and release programs.

Prerequisites: Biology 1306/1106 or 1307/1107.

4303 Evolution (3-0). A review of the history of evolutionary thought and discussion of the development of all living organisms from previously existing types under the control of evolutionary processes. Emphasis on the mechanisms of evolution and the different theories regarding the processes that have brought about evolutionary change.

Prerequisites: Credit for one semester of introductory biology for majors (Biology 1306/1106, 1307/1107, 1480) and Biology 3301 or credit for one semester of introductory biology for majors (Biology 1306/1106, 1307/1107) and Animal Science 3443.

4311 Animal Behavior (3-0). A study of the behavior of animals, behavior's evolutionary origins, physiological, psychological, and genetic control. Additionally, the ecological and evolutionary significance of behavior will be discussed. Special consideration will be placed on understanding underlying mechanisms that promote animal behaviors with course topics emphasizing critical thinking and the scientific process. Individual-based inquiries will focus on observations of recorded and wild animals to reinforce lecture concepts.

Prerequisite: Biology 1413 or permission of instructor.

4315 Biogeography (3-0). A study of the distribution of plants and animals over the earth and of the principles that govern this distribution.

Prerequisites: Biology 1411 or 1413 or equivalent.

4381 Special Topics. Selected topics in biology. (May be repeated once for credit when the topic varies.)

Prerequisite: Junior standing.

Biology (BIOL) continued

4401 Ornithology (3-3). A study of the biology of birds, their anatomy, evolutionary history, diversity, ecology, behavior, and zoogeography. Laboratory exercises will emphasize the identification and natural history of Texas birds.

Prerequisite: Biology 1413 or equivalent.

4402 Mammalogy (3-3). A study of the biology of mammals, their anatomy, evolutionary history, diversity, ecology, behavior, and zoogeography. Laboratory exercises will emphasize the identification and natural history of Texas mammals.

Prerequisite: Biology 1413 or equivalent.

4403 Natural History of Bats (3-3). A study of the ecology and evolution of the order Chiroptera with emphasis on unique adaptations related to the life history strategies and echolocation of North American bats. Students will gain hands-on experience with the use of taxonomic keys and field techniques used in sampling and identifying bat species in natural habitats.

Prerequisite: Biology 1413 or consent of the instructor.

4404 Herpetology (3-3). A study of the amphibians and reptiles, their anatomy, evolutionary history, diversity, ecology, behavior, and zoogeography. Laboratory exercises will emphasize the identification and natural history of Texas amphibians and reptiles.

Prerequisite: Biology 1413 or equivalent.

4412 Biological Oceanography (3-3). A study of marine organisms and the environment in which they are found. Particular emphasis will be given to the Gulf of Mexico.

Prerequisite: Credit for one course in biology for majors (Biology 1306/1106, 1307/1107, 1411, 1413) or consent of instructor.

4421 Developmental Biology (3-3). A study of the molecular and genetic mechanisms regulating the development of animals. Specific topics include gametogenesis, embryogenesis, and tissue development. Laboratory explores the development of various invertebrate and vertebrate model organisms and emphasizes the application of techniques used with these model systems.

Prerequisites: Biology 3301, 3403.

4423 General Physiology (3-3). An advanced course in fundamentals of vertebrate physiology emphasizing function from the molecular to the organ system level. Laboratory exercises combine animal study, biochemical and molecular techniques, electronic instrumentation, case studies, presentations and/or computer simulations of physiological principles.

Prerequisites: Must have completed Biology 1413; or at least junior status and Biology 1306/1106 and 1307/1107 (or Biology 2323/2123 and 2324/2124) with a grade of "B" or better.

4425 Bioinformatics (3-3). Introduction to methods for acquiring, analyzing, and employing biological sequence information. Advances in sequencing techniques allow scientists to generate huge amounts of DNA and protein sequence data. Bioinformatics employs computer techniques to use this information to, for example, solve crimes, track the spread of new diseases, predict a cancer patient's response to specific drugs, and assess the presence of rare species in ecological studies.

Prerequisite: Biology 1306/1106 with a grade of "A" or Biology 3301 with a grade of "B" or better or permission of instructor.

4435 Plant Taxonomy (3-3). In this course, students will uncover historical roots and principles of plant classification. This course integrates the study of diverse groups of plants, including non-vascular plants (mosses and liverworts), seedless vascular plants (ferns), gymnosperms, and culminates in the exploration of the vast diversity of angiosperms. Students will engage with both classical concepts and new techniques, learning about modern molecular techniques and newest advances in computational sciences in plant identification. (Credit may not be earned for this course and Range and Wildlife Management 4435.)

4441 Parasitology (3-3). This course examines the success of the parasitic lifestyle by studying the various aspects of a host-parasite relationship. Topics include form and function, life cycles and adaptations to increase transmission, symptoms and causes of pathology, and mechanisms permitting the evasion of the host immune system. The course ends with an introduction to the ecological descriptors of parasite communities. Both medically and non-medically important parasites will be discussed.

Prerequisites: Must have completed Biology 1306/1106 and 1307/1107 (or Biology 2323/2123 and 2324/2124) with a grade of "C" or better.

4442 Arachnology (3-3). A study of the origin of the arachnids and their evolutionary relationships to other early arthropod groups. A survey of the recognized ordinal groups will be presented in both lecture and laboratory with respect to the existing literature on distribution, morphology, ecology, reproductive life cycles and their relationships to man.

4443 Invertebrate Zoology (3-3). A survey of major invertebrate phyla, with emphasis on the classes of Cnidarians, Annelids, Mollusks, Arthropods, and Echinoderms. Particular attention will be given to phylogenetic relationships and natural history.

Prerequisite: Biology 1413 or equivalent.

4450 Molecular Biology (3-4). A study of the synthesis, function, and regulation of biologically important macromolecules (DNA, RNA, and proteins). Laboratory exercises are designed to develop skills with standard techniques in molecular biology such as electrophoresis, PCR, recombinant DNA technology, DNA sequencing, and bioinformatics.

Prerequisites: "C" or better in Biology 3403 or consent of instructor.

4451 Principles of Ecology (3-3). Examination of basic ecological concepts and principles of the ecosystem and biogeochemical cycles, with particular emphasis on the organization and energetics of populations at the species, interspecies, and community levels in aquatic and terrestrial environments.

Prerequisites: Credit for two semesters of biology for majors (Biology 1306/1106, 1307/1107, 1411, 1413), and Mathematics 1314, 1342, or higher (e.g. Mathematics 1316, 2312, 2413, 2414) or consent of instructor.

4480 Introduction to Biometry (3-2). An introduction to the application of statistics to biological research. This course will include an introduction to probability, sampling theory, and hypothesis testing. Emphasis will be on common statistical techniques for biological research.

Prerequisites: Mathematics 1314 or equivalent. Mathematics 2312 or 3321 are recommended.

Border Security (BOR)

3101 Introduction to Homeland Security (1-0). Students focus on a comprehensive, up-to-date overview of homeland security from an all-hazards perspective. They examine threats to homeland security, including natural and technological disasters, as well as intentional threats of domestic and international terrorism, including weapons of mass destruction. The processes whereby strategic intelligence is gathered and disseminated are analyzed and accompanied with practical assignments where students gather and assess open-source and subscription open-source intelligence on one topic of their choice. This project is presented along with analysis and recommendations within a class portfolio context. Students review the roles and responsibilities of government agencies, non-government organizations, and individual citizens in homeland security. (Credit may not be earned for this course and Border Security 3301.)

3301 Studies in Homeland Security (3-0). This course introduces the student to the field of Border Security Studies. Students focus on a comprehensive, up-to-date overview of border security from an all-hazards perspective. Border security is viewed as a fundamental component of Homeland Security, and as such students examine a wide variety of threats to the homeland. This course incorporates the concepts of critical infrastructure, gathering and analysis of strategic intelligence, and develops the student's technical writing skills. Students review the roles and responsibilities of government agencies, non-government organizations, and individual citizens in homeland security. (Credit may not be earned for this course and Border Security 3101.)

3307 Introduction to Cybersecurity (3-0). This course introduces students to the wide range of modern communications technologies. Use of these technologies by government and business entities for intelligence gathering, their limitations, and vulnerabilities are introduced to 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. (Credit may not be earned for this course and Intelligence and Analysis 3307.)

3309 Information Security and Protection (3-0). This course prepares students to assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation and maintenance of security devices, systems, and procedures. Reviews of past hacking, criminal, and terrorist (state and non-state) attacks on information networks are a component of this course.

3320 History of Terrorism (3-0). Students examine the phenomena of terrorism, counterterrorism, and the associated violence from a historical perspective with a focus on terrorism impacting America. Students describe the social context of terrorism as it relates to the actions of various terrorist groups, how terrorism appears to be a war fought on a different level by a set of different rules, and the emergence of leaderless terrorism (a loose network of groups with common goals apparently acting in isolation towards similar ends). Students conclude the course with discussions on fighting terrorism in the United States, including the potential problems of loss of civil liberties and other obstacles to counterterrorism.

3322 Weapons of Mass Destruction (3-0). This course for the non-scientist is a study of chemical, biological, and radiological science involved in the different forms of weapons of mass destruction. Identification of critical infrastructure and the associated threats are analyzed. The course covers topics of basic science, treatment, and short- and long- term effects, among other issues central to understanding hostile WMD agents.

3323 Wildlife Crimes (3-0). This course is designed to begin with an overview of the world's wildlife and conservation crime problem from a global perspective as well as the United States Fish and Wildlife Department. The wildlife crime problem is a preferred economic business practice of many organizations, including transnational organized crime groups and some terrorist organizations. The modules created for use in this course are designed to progress from the world view of wildlife and conservation crime to a more localized perspective that encompasses the full spectrum of social, political, and economic issues affecting the United States. Finally, the violence and threat emanating from many wildlife criminal organizations will be studied, and future trends and implications will top off the course. (Credit may not be earned for this course and Criminal Justice 3323.)

3340 Legal Issues in International Relations (3-0). Students receive an in-depth overview of laws, policy, strategy, organization, and plans for dealing with various natural, accidental and premeditated threats to homeland security. Students review the respective and relative roles and responsibilities of government agencies, non-government organizations, and individual citizens for U.S. national security. Students discuss various policy and strategy issues, including balancing security and civil liberties and information sharing and protection and the USA Patriot Act.

3343 International Law (3-0). Introduces the student to the basic principles and practices of international law and legal regimes. Examines traditional and emerging topics in the field: human rights, the Law of the Sea, the Law of Armed Conflict, War Crimes Tribunals, and the International Criminal Court.

4071 Internship (1-6 SCH). This course is designed to familiarize students with the application of knowledge gained in course work and with operations and problems in the field of border and homeland security. Students must be pursuing a degree in Border Security. Approval of instructor is required.

4191, 4291, 4391 Research. Individual research problems for superior students majoring in homeland and border security. May be repeated for a total of six semester hours credit.

Prerequisites: Junior or Senior standing. Approval from the Chair of the Department is required prior to enrollment.

4301 Critical Communications Infrastructure (3-0). This course focuses on how cyber communication systems function, their interconnectivity, and vulnerabilities. The course materials focus on processes and policies associated with hardening and protecting critical communications infrastructure from natural hazards, potential terrorist threats, and attacks associated with modern warfare.

4302 Space Imagery and Security (3-0). This capstone course discusses the use of space-based assets to support Homeland Security and Intelligence efforts. Included are the limitations of the technologies, available commercial technologies, and the discussion of the legal, moral, and political issues surrounding the use of these technologies in a democratic society. Students will design and present a project as part of this course. (Credit may not be earned for this course and Intelligence and Analysis 4302.)

Border Security (BOR) continued

4303 Digital Footprints (3-0). A digital footprint is the data users leave behind on digital services. This course explores the inner workings of our digital world. Students will learn about the two main classifications of digital footprints: passive and active. The course covers terms related to internet technology and the dynamics of the internet while examining the mechanism and tools used to break down user and server information. (Credit may not be earned for this course and Intelligence and Analysis 4305.)

4310 Maritime Security (3-0). This course provides students with a broad knowledge of port and coastal security issues and the efforts necessary to protect critical infrastructure. It examines the critical importance of ports of entry (ocean, land, and air) to trade and their vulnerability to disruption and attack. It also examines several contemporary issues, including the importance of sea borne trade to the North American and United State economies, the vulnerabilities of ports to disruption and asymmetric attack, critical port security incidents, and defensive measures to protect ports from disruption or asymmetric attack. Topics also include immigration, an overview of the federal, state and local organizations involved in port and coastal security, and non-U.S. approaches to border and coastal security.

4321 Trends in Terrorism and Counterterrorism (3-0). This is a seminar course in which students examine new and growing threats including: narco-terrorism, environmental terrorism, terrorist recruitment methods, genomic terrorism, and threats to critical infrastructure. Students progress from analysis of past terrorism to present and future responses by national and international counterterrorism. Students consider historical defenses as well as new concepts and innovations for the prevention and mitigation of terrorist attacks.

4330 Disaster Preparedness and Emergency Planning (3-0). Effective emergency planning is the key to surviving natural and man-made disasters. Risk analysis and the formulation of a comprehensive plan, followed by a vigorous and continuing testing program, are essential elements to surviving an emergency. Topics covered include threat assessment, risk analysis, formulating a response plan, staffing an emergency operations center (EOC), interagency coordination and liaison, managing an actual incident, and conducting effective follow-up analysis. Student will select a critical infrastructure component within their communities, evaluate/establish strategic planning to respond to a disaster at that location, consider environmental impacts of a disaster, and present a portfolio of their analysis and response plans in an appropriate format. Actual case studies are discussed. Students are expected to participate actively in role-playing responses to disaster scenarios provide by the professor.

4344 Terrorism and Homeland Security (3-0). This survey course addresses the legal and policy lessons from the past regarding the War on Terrorism. The course examines definition of domestic and international conflict; its modalities (e.g., armed conflict, terrorism, economic coercion, and environmental degradation); types of threats (e.g., nuclear, biological, and chemical); the public law of conflict management; and the U.S. response to external conflict within the confines of domestic and international legal principles recognized by the United States (including constitutional issues.)

4345 Federal Immigration Law (3-0). In this seminar course the student is introduced to Federal Laws dealing with Border Security issues, in particular, U.S.C. Title 8, Title 18, Title 19, Title 21, and Title 31. Overviews of the laws, coupled with discussion of their implementation by the federal courts, are interactively discussed by the student and professor.

4351 Critical Infrastructure Protection (3-0). The evolution and principles of critical infrastructure, in both the private and public sectors, vital to their community, state, or the nation are identified. Risk assessments are performed and students address risk mitigation plans and appropriate countermeasures to a variety of threats from an all-hazards perspective. Includes instruction in homeland security policy, critical infrastructure policy, threat assessment, physical security, personnel security, operational security, contingency planning, case analyses of specific industries and systems, redundancy planning, emergency and disaster planning, security systems, and intelligence operations.

4354 Professionalism and Ethics in Criminal Justice Agencies (3-0). The study of theories and practices in areas of legality, morality, values, and ethics as they pertain to criminal justice. Included will be such topics as police corruption, brutality, and methods of dealing with such practices, as well as the concept of profession and professional conduct. This course is for Border Security or Criminal Justice majors and minors only. (Credit may not be earned for this course and for Criminal Justice 4354.)

Prerequisite: Senior status.

4381 Special Topics (3-0). A seminar in selected homeland and border security topics. May be repeated once for credit when topic varies.

4389 Seminar in Homeland and Border Security (3-0). This capstone course ties together the wide-ranging issues associated in the discipline of Homeland Security, focusing students in conducting research into issues associated with securing the nation's borders from a variety of transnational threats in a dynamic environment.

Prerequisite: Senior status.

Business (BUSI)

1301/BUSI 1301 Introduction to Business (3-0). Fundamental principles of business organization, ownership, operation, and control. Helpful to beginning students in selecting a major program of study.

2321 Money Management and Professional Readiness (3-0). This course explores the basics of personal finance and prepares students for life in a professional setting. Course topics include budgeting, responsible credit card use, student loans, general personal finance, how to create an attractive resume, job search strategies, online profiles, interview skills, and general soft skills necessary for professional success.

3301 Legal and Ethical Environment of Business (3-0). An overview of the basic principles of law as they apply to business, with an emphasis on the ethical environment of business. Topics include personal ethics, business ethics, legal ethics, resolution of ethical conflicts, the judicial system and court procedure, alternative dispute resolution, the constitution and business, business torts and crimes, contracts, bailments, forms of business structure, basic property law, international law and other relevant legal and ethical topics.

Business (BUSI) continued

3347 Business Law for Accountants (3-0). An examination of the legal topics necessary for an accounting major to prepare to be a Certified Public Accountant. Topics include law of agency, contract law, the Uniform Commercial Code, debtor-creditor relationships, government regulation of business, and considerations of business structure.

Prerequisite: Business 3301.

4381 Special Topics: Business Law (3-0). A study of selected topics in business law. May be repeated once for credit when the topic varies.

Prerequisite: Junior status.

4391 Research: Business Law. A specialized course which may be directed reading or research for superior students.

Prerequisite: Departmental permission.

Business Computer Information Systems (BCIS)

1305/BCIS 1305 Business Computer Applications (3-0). Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business utilization of the internet.

4366 Business Modeling and Decision Making (3-0). Design and use of financial models for working capital management; cash flow projections; ratio analysis; capital budgeting; security valuation and selection; portfolio management; and real estate investment analysis.

Prerequisites: Business Computer Information Systems 1305 or equivalent, Finance 3361.

4381 Special Topics (3-0). Selected topics in business computer information systems. May be repeated once for credit when the topic varies.

Prerequisite: Junior status.

4391 Research. A specialized course which may be directed reading or research for superior students.

Prerequisite: Departmental permission.

Chemistry (CHEM)

1105/CHEM 1105 Elements of Chemistry Laboratory (0-2). Laboratory experiments that focus on laboratory technique, data collection, and analysis. The experiments will expand upon the concepts and topics presented in Chemistry 1305. (Chemistry 1105 is optional.) Credit may not be applied to a minor in Chemistry.

1106/CHEM 1106 Chemistry for the Health Professions Laboratory (0-3). Group learning activities and labs that present the bulk of the information for the Chemistry for the Health Professions course in an active learning environment. Students will receive the same grade for Chemistry 1106 and Chemistry 1306. Credit may not be applied to a minor in Chemistry.

Corequisite: Chemistry 1306.

1111/CHEM 1111 General Chemistry I Laboratory (0-3). Laboratory experiments that focus on laboratory technique, data collection, and analysis. The experiments will expand upon the concepts and topics presented in Chemistry 1311.

Corequisite: Chemistry 1311.

1112/CHEM 1112 General Chemistry II Laboratory (0-3). Laboratory experiments that focus on laboratory technique, data collection, and analysis. The experiments will expand upon the concepts and topics presented in Chemistry 1312.

Corequisite: Chemistry 1312.

1191 Freshman Research I. Freshman research for students selected for a freshman research grant. This course satisfies the first semester of that research requirement.

Prerequisites: Consent of the Department Chair and Faculty Mentor.

1305/CHEM 1305 Elements of Chemistry (3-0). A survey of the fundamentals of chemistry. An introduction to organic and physiological chemistry and a survey of the chemistry of environmental systems. The accompanying laboratory, Chemistry 1105, is optional. May not be taken after completion of Chemistry 1312/1112. May not be applied to a major or minor in Chemistry or Biochemistry.

1306/CHEM 1306 Chemistry for the Health Professions (3-0). An introduction to General, Organic and Biological emphasis on the role of chemistry in health and illness. The focus of this class is inquiry based learning designed to reinforce the concepts learned in Chemistry 1106. Intended for nurses and allied health professions; open to others with permission of the instructor. May not be applied to a minor in Chemistry. Students will receive the same grade for Chemistry 1306 as in Chemistry 1106.

Corequisite: Chemistry 1106.

1311/CHEM 1311 General Chemistry I (3-0). An introduction to the fundamental laws and theories of chemistry, chemical nomenclature, stoichiometry, atomic structure, chemical bonding, periodic table, chemical equations and reactions, and the properties of heat flow and gases.

Prerequisites: Students must have received: a score of 580 or above on the mathematics portion of the SAT if taken before March 2016, a score of 600 or above on the mathematics portion of the SAT if taken in March 2016 or after, a score of 26 or above on the mathematics section of the ACT, completed college algebra with a grade of "C" or better, or completed Chemistry 1305 with a grade of "C" or better in order to enroll in Chemistry 1311/1111.

Corequisite: Chemistry 1111.

1312/CHEM 1312 General Chemistry II (3-0). This course, which is a continuation of Chemistry 1311, focuses on chemical kinetics, chemical equilibrium, acid-base chemistry, and thermodynamics. Additional topics, such as environmental chemistry, electrochemistry, coordination chemistry, nuclear chemistry, organic chemistry, and/or polymers, may also be introduced.

Prerequisite: Chemistry 1311/1111 or 1411, must be completed with a "C" or better in order to enroll in Chemistry 1312/1112

Corequisite: Chemistry 1112.

Chemistry (CHEM) continued

1391 Freshman Research II. Freshman research for students selected for a freshman research grant. This course satisfies the second semester of that research requirement.

Prerequisites: Consent of the Department Chair and Faculty Mentor.

1405/CHEM 1405 Elements of Chemistry (3-3). A course that focuses on describing, explaining and predicting the fundamental principles of chemistry.

1411, 1412/CHEM 1411, CHEM 1412 General Chemistry (3-3). Study of the fundamental laws and theories of chemistry, chemical nomenclature, chemical equilibrium, metals and non-metals and their compounds, introduction to nuclear chemistry and the quantum theory of structure.

Prerequisites: Students must have received: a score of 580 or above on the mathematics portion of the SAT if taken before March 2016, a score of 600 or above on the mathematics portion of the SAT if taken in March 2016 or after, a score of 26 or above on the mathematics section of the ACT, completed college algebra, or completed Chemistry 1405 with a grade of "C" or better in order to enroll in Chemistry 1411. Chemistry 1411 is to be completed with a grade of "C" or better in order to enroll in Chemistry 1412.

2153 Fundamentals of Organic Chemistry Laboratory (0-3). Required laboratory experiences to supplement Chemistry 2353. Effective fall 2011 credit may not be applied to a major or minor in chemistry.

Prerequisite: Chemistry 2353 or concurrent enrollment.

2353 Fundamentals of Organic Chemistry (3-0). A brief survey of organic chemistry. Structural theory and the influence of structure on properties of organic compounds are emphasized. (Credit may not be received for both this course and Chemistry 3451.) Effective fall 2011 credit may not be applied to a major or minor in chemistry.

Prerequisite: Chemistry 1305/1105 or 1311/1111. Credit to be validated by credit in Chemistry 2153.

3301 Descriptive Inorganic Chemistry (3-0). Discussion of main group elements and transition metals, nuclear properties and periodic trends, ionic and molecular compounds, coordination chemistry, and solid lattices.

Prerequisite: A grade of "C" or better in Chemistry 1312/1112.

3331 Fundamentals of Biochemistry (3-0). A brief survey of biomolecules and their metabolism. Application to animal nutrition is made. Effective fall 2011 credit may not be applied to a major or minor in chemistry.

Prerequisite: Chemistry 2353.

3421 Inorganic Quantitative Analysis (3-3). Principles of analytical chemistry with emphasis on the fundamental instrumental techniques and methods used for chemical analysis. The course serves as an introduction to more advanced method.

Prerequisites: Chemistry 1312/1112 with grades of "C" or higher.

3451, 3452 Organic Chemistry (3-3). Principles of organic chemistry, including a study of both aliphatic and aromatic compounds. Study of structural theory and reaction mechanisms.

Prerequisites: A grade of "C" or better in Chemistry 1312/1112 for enrollment in Chemistry 3451. A grade of "C" or better in Chemistry 3451 for enrollment in Chemistry 3452.

3461 Physical Chemistry - Quantum Chemistry and Spectroscopy (3-3). Laws, theories, and concepts of physical chemistry including quantum chemistry and spectroscopy.

Prerequisite: Physics 2325/2125 and completion of or concurrent registration in Mathematics 2414.

3462 Physical Chemistry - Thermodynamics and Kinetics (3-3). Laws, theories, and concepts of physical chemistry including thermodynamics and kinetics.

Prerequisite: Physics 2325/2125 and completion of or concurrent registration in Mathematics 2414.

4191, 4291, 4391 Research. Individual research problems for superior students majoring in chemistry. (May be repeated to a total of six semester hours credit.)

Prerequisite: Chemistry 3421.

4233 Biochemistry Laboratory (0-6). A survey of the techniques and applications of molecular biology and biochemistry. Emphasis on current techniques and structure/function relationships of biological macro-molecules.

Prerequisites: Biology 3403, and Chemistry 3452, 4331.

4301 Chemistry Capstone (3-0). A critical review of chemical topics that requires students to integrate the knowledge and skills introduced across the curriculum. The capstone experience requires technical writing and verbal presentation.

Prerequisites: Must be taken in the spring semester before graduation. Student must be of senior standing and a Chemistry major.

4331 Biochemistry (3-0). The chemistry of living organisms. Carbohydrates, lipids, proteins, vitamins, and related cellular constituents are considered.

Prerequisite: Chemistry 3452.

4332 Intermediary Metabolism (3-0). Coordinated examination of enzymatic processes in the living cell.

Prerequisite: Chemistry 4331.

4381 Special Topics (3-0). Selected topics in chemistry. May be repeated once for credit when the topic varies.

Prerequisite: Junior standing.

4421 Instrumental Analysis (3-3). An introduction to the theoretical and practical aspects of physiochemical methods of analysis, including optical and chromatographic techniques.

Prerequisites: Chemistry 3421, 3452.

Civil Engineering (CENG)

3311 Introduction to Transportation Engineering (3-0). Introduction to Transportation Engineering is an entry level transportation engineering course. The course covers general knowledge in all the transportation fields including: traffic characteristics and flow theory, transportation planning, geometric design of highways, and traffic safety.

Prerequisites: Engineering 2301 and Physics 2326, 2126. Completion or concurrent enrollment in Engineering 3305.

Civil Engineering (CENG) continued

3332 Construction Materials and Pavement Design (2-3). Evaluation of civil construction materials for engineering applications. Physical properties of aggregates, asphalt, cement, concrete, and wood. Pavement types, stresses in flexible and rigid pavements, and traffic considerations. Methods of pavement design. Related ASTM test specifications and materials characterization for different construction materials.

Prerequisites: Civil Engineering 3311, Civil Engineering Majors only, or Department permission.

3341 Geotechnical Engineering (2-3). Introduction to geotechnical engineering and testing. Identification and classification tests, flow net, principles of settlement, stresses in soils and shear strength testing.

Prerequisites: Engineering 2332; Civil Engineering Majors only, or Departmental permission.

3351 Introduction to Environmental Engineering (2-3). This course introduces the fundamental concepts in environmental engineering dealing with water, air, and land pollution. The course will cover environmental legislation, various environmental issues, natural water system, mass balance, environmental parameters, basic water chemistry, drinking water and wastewater treatment system, solid and hazardous waste management, and introduction to air pollution control.

Prerequisites: Chemistry 1311, 1111; Completion or concurrent enrollment in Engineering 2302.

3352 Hydrology and Hydraulics (2-3). The hydrologic budget: precipitation, evaporation, infiltration, runoff, and steady state groundwater flow. Rainfall-runoff analysis, flood routing and hydrologic frequency analysis. Hydraulics of closed conduits and open channel flow with design applications in culverts, pumps, water distribution, storm and sanitary sewer systems.

Prerequisite: Engineering 3305, 3404.

3353 Hazardous Waste and Site Remediation (3-0). Definition and classification of wastes encountered at contaminated sites. Principles underlying currently available site remediation technologies. Selection of treatment technology using EPA's screening matrix. Engineering design of remediation systems such as pump-and-treat, bioremediation, and soil vapor extraction.

Prerequisite: Civil Engineering 3351.

3361 Structural Analysis I (3-0). Calculation of axial forces, shear forces, bending moments, and elastic deflections in statically determinate/indeterminate structures using classical and matrix methods. Topics include structural design methodologies, load path, basic tension/compression member design, determinate/indeterminate analysis of trusses/beams/frames, influence lines, virtual work, force method, and an introduction to matrix structural analysis.

Prerequisite: Engineering 2332.

3362 Structural Analysis II (3-0). Analysis of statically indeterminate structures using approximation methods, energy, and/or matrix methods. Direct stiffness and flexibility methods are discussed as are a variety of application in structural analysis software.

Prerequisites: Civil Engineering 3361 and one of the following: Computer Science 1314, Computer Science 1336, or Engineering 2304; Civil Engineering Majors only, or Departmental permission.

4071 Civil Engineering Internship (1-6). Internship in Civil Engineering. Course may be repeated for up to six units total credit.

Prerequisite: Departmental permission.

4091 Independent Study (1-6). Independent study or individual research problems in Civil Engineering. May be repeated for a total of 12 credits.

Prerequisites: Civil Engineering Majors only with Junior or Senior standing. Departmental permission.

4311 Transportation Design (3-0). This course provides students with an understanding of the basic principles and techniques of highway design—criteria controlling geometric design of highways including design speed, design volume, vehicle requirements and capacity. The course will explore transportation planning elements that impact design decision, selection of potential routes, design of alignments and intersections, evaluation of earthwork requirements, application of computer software in highway design, the determination of pavement conditions, and the design of flexible and rigid pavements. There will be three class projects involving geometric design, pavement management, and pavement design.

Prerequisites: Civil Engineering 3311; Civil Engineering Majors only, or Departmental permission.

4341 Foundation and Retaining Wall Design (3-0). Application of principles of classical soil mechanics and structural concrete design to the design and analysis of shallow foundations and retaining structures.

Prerequisites: Civil Engineering 3341. Completion or concurrent enrollment in Civil Engineering 4362.

4351 Water and Wastewater Treatment Design (3-0). Principles of physical, chemical, and biological processes for the water and wastewater treatment. Design treatment technologies including coagulation and flocculation, sedimentation, filtration, absorption, chemical oxidation/disinfection, membrane filtration, biological treatment processes, and sludge management.

Prerequisites: Civil Engineering 3351; Civil Engineering Majors only, or Departmental permission.

4352 Hydraulic System Analysis (3-0). Analysis and design of hydraulic systems including pipe networks, open channels, sanitary sewer, storm management, water storage tanks and pumping systems.

Prerequisites: Civil Engineering 3404; completion or concurrent enrollment in Civil Engineering 3352.

4362 Concrete Design (3-0). Analysis and design of beams, one-way slabs and columns. Mechanics, behavior and design of reinforced concrete members subject to axial loads, bending and shear with ACI specifications.

Prerequisites: Civil Engineering 3361; Civil Engineering Majors only, or Departmental permission.

4363 Steel Design (3-0). Design and behavior of steel structures using AISC specifications with LRFD. Design topics include compression members, stability, beams, tension members, and concentric bolted/welded connections. Students will work in groups to design a 3-4 story, gravity-loaded steel-framed building.

Prerequisites: Civil Engineering 3361; Civil Engineering Majors only, or Departmental permission.

Civil Engineering (CENG) continued

4366 Bridge Design (3-0). Bridge design in structural steel and reinforced concrete using AASHTO Bridge Design Specifications. Preliminary designs include investigating alternative structural systems and materials. Final designs include preparation of design calculations and sketches.

Prerequisites: Civil Engineering 3361. Completion or concurrent enrollment in Civil Engineering 4362 or 4363.

4380 Civil Engineering Senior Design (1-4). Civil Engineering capstone experience. Engineering concepts integrated from topics taught in sequences of upper-division courses to produce practical, efficient and feasible solutions of civil engineering problems. Computer applications are included. Final oral and written reports are required. Intended to be taken in the final semester.

Prerequisites: Senior standing within one semester of graduation. Departmental permission.

4381 Special Topics in Civil Engineering (3-0). Special topics in civil engineering. Course may be repeated for credit when topics vary.

Prerequisite: Departmental permission.

Commercial Aviation (CAV)

1142 Air Traffic Operations Laboratory (0-3). Laboratory experience designed to accompany Commercial Aviation 1342. Includes laboratory and simulator scenarios to reinforce air traffic operations.

1301 Introduction to Aviation (3). The development of aviation from early attempts to space travel, as well as an introduction to private flying fundamentals, including career opportunities in the aviation industry.

1342 Introduction to Air Traffic Operations (3-0). An introductory course surveying many aspects of the knowledge needed to be an air traffic professional, including the basic knowledge a pilot must have. Topics include the U.S. airspace system, FAA regulations, aviation weather, flight publications, radio navigation, flight safety, aircraft performance, weight and balance, cross-country planning and navigation, and basic flight physiology.

1351 Private Pilot Flying I (3-0). Dual and solo flight instruction designed to prepare the student for FAA Private Pilot certification. Special fee. Restricted to only one flight class per semester.

Corequisites: Commercial Aviation 1301, 1356, 1550.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renters insurance.

1352 Private Pilot Flying II (3-0). Dual and solo flight instruction designed as a continuation of Commercial Aviation 1351 to prepare the student for FM Private Pilot certification. Special fee. Restricted to only one flight class per semester.

Prerequisite: Commercial Aviation 1351.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renter's insurance.

1356 Applied Meteorology (3-0). Basic weather theory and information services available, including how to interpret various reports and forecasts provided by the National Weather Service and the Federal Aviation Administration.

1370 Helicopter Private Pilot Ground (3-0). Principles of flight; the flight environment; aircraft systems and performance, basic and radio navigation; flight planning; physiology; federal aviation regulations. Designed to prepare the student for the FAA Private Pilot written examination.

Corequisites: Commercial Aviation 1351, 1356.

1371 Helicopter Private Pilot Flying (3-0). Dual and solo flight instruction designed to prepare the student for FM Private Pilot certification. Special fee. Restricted to only one flight class per semester.

Corequisites: Commercial Aviation 1301, 1356, 1370.

Additional Requirements: Valid Driver's License, current FM medical certificate, aircraft renter's insurance.

1550 Private Pilot Ground (5-0). Principles of flight; the flight environment; aircraft systems and performance, basic and radio navigation; flight planning; physiology; federal aviation regulations. Designed to prepare the student for the FAA Private Pilot written examination.

Corequisites: Commercial Aviation 1351, 1356.

2143 Control Tower Laboratory I (0-3). Laboratory experience designed to accompany Commercial Aviation 2343. Includes laboratory and simulator scenarios to reinforce tower operational knowledge and skills.

2144 Control Tower Laboratory II (0-3). Laboratory experience designed to accompany Commercial Aviation 2344. Includes laboratory and simulator scenarios to reinforce tower operational knowledge and skills.

2245 Computer Equipment and Message Entry (2-0). This course details the requirements of the automated process to coordinate and separate air traffic. Topics include airspace utilization, flight plans, general control procedures, IFR clearances, and enroute separation standards.

Prerequisite: Commercial Aviation 1342.

2340 Aircraft Engine Operation (3-0). The study of aircraft engine types; their design, construction, and operation. Review of auxiliary engine systems as part of the aircraft power plant system.

Prerequisite: Commercial Aviation 1550.

2343 Basic Control Tower Operations (3-0). Covers topics necessary to become skilled in control tower operations. Coverage includes separation requirements, tower operational procedures, tower interaction with air traffic and non-air traffic agencies.

Prerequisite: Commercial Aviation 1342.

2344 Advanced Control Tower Operations (3-0). Covers advanced and fundamental tower operations, including structure, procedures, theories of airspace and traffic management. A 3D tower simulator is used extensively to teach students needed skills in this course.

Prerequisite: Commercial Aviation 2343.

2350 Instrument Pilot Ground (3-0). Aircraft instruments. FAA regulations, ATC procedures, radio navigation, SIDS, STARS, communications phraseology, aircraft operations, and aircraft performance as applied to instrument flying and flight planning. Designed to help the student prepare for the FAA written examination.

Prerequisite: Private Pilot Certificate 3.

Commercial Aviation (CAV) continued

2353 Commercial/Instrument I (3-0). Aircraft instruments. FAA regulations, ATC procedures, radio navigation, SIDS, STARS, communications phraseology, aircraft operations, and aircraft performance as applied to instrument flying and flight planning. Designed to help the student prepare for the FAA written examination. Restricted to only one flight class per semester.

Corequisite: Commercial Aviation 2350.

Prerequisite: Commercial Aviation 1351.

Additional requirements: FAA issued Private Pilot Certificate, valid Driver's License, current medical certificate, aircraft renters insurance.

2354 Commercial/Instrument II (3-0). Dual and solo flying to prepare the student for navigation and high performance aircraft phase checks. Solo practice and solo cross country. Special fee. Restricted to only one flight class per semester.

Prerequisites: Commercial Aviation 2350, 2353.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renters insurance.

2355 Commercial/Instrument III (3-0). Dual and solo flying to prepare the student for the instrument approach phase check and final phase check for the Instrument Rating and Commercial Pilot Certificate. Solo practice and solo cross country. Dual cross country. Special fee. Restricted to only one flight class per semester.

Prerequisites: Commercial Aviation 2354, 2362 or permission of department chair.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renters insurance.

2362 Commercial Pilot Ground (3-0). Procedures, operations, and regulations necessary to prepare the student for the FAA Commercial Pilot Airplane written examination.

Prerequisites: Commercial Aviation 2340 and a minimum of a Private Pilot Certificate.

2373 Helicopter Instrument I (3-0). Aircraft instruments. FAA regulations, ATC procedures, radio navigation, communications phraseology, aircraft operations, and aircraft performance as applied to instrument flying. Designed to help the student prepare for the FAA written examination. Restricted to only one flight class per semester. Special fee.

Corequisite: Commercial Aviation 2350.

Prerequisite: Commercial Aviation 1371.

Additional requirements: FAA issued Private Pilot Certificate, valid Driver's License, current medical certificate, aircraft renter's insurance.

2374 Helicopter Instrument II (3-0). Dual flying to prepare the student for the instrument approach phase check and final phase check for the Instrument Rating. Special fee. Restricted to only one flight class per semester.

Prerequisites: Commercial Aviation 2373, 2375 or permission of department chair.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renter's insurance.

2375 Helicopter Commercial Pilot Ground (3-0). Procedures, operations, and regulations necessary to prepare the student for the FAA Commercial Pilot Helicopter written examination.

2376 Helicopter Commercial I (3-0). Dual and solo flying to prepare the student for the Commercial Helicopter Certificate. Solo practice and solo cross country. Special fee. Restricted to only one flight class per semester.

Prerequisites: Commercial Aviation 2350, 2373.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renter's insurance.

3145 Radar Laboratory I (0-3). Laboratory experience designed to accompany Commercial Aviation 3345. Designed to enhance the student's radar knowledge and analytical skills needed to safely exercise the privileges and responsibilities of an air traffic control radar operator.

3146 Radar Laboratory II (0-3). Laboratory experience designed to accompany Commercial Aviation 3346. Designed to enhance the student's radar knowledge and analytical skills needed to safely exercise the privileges and responsibilities of an air traffic control radar operator.

3163 Multi-engine Flight (1-0). Dual flight instruction designed to prepare the student for the FAA Multi-engine Airplane Rating. Special fee.

Prerequisite: Instrument Rating Certificate.

3345 Basic Radar Operations (3-0). Provides students with the knowledge of basic radar operations, separation requirements, and the procedures of air traffic terminal radar operations. Radar interactions with other air traffic and non-air traffic agencies is also covered in this course.

Prerequisite: Commercial Aviation 2344.

3346 Advanced Radar Operations (3-0). This course provides students with advanced radar instruction and knowledge of separation requirements and procedures of air traffic terminal radar operations. Application of acquired controller skills utilizing radar simulation, which progress in difficulty are a major component of this course.

Prerequisite: Commercial Aviation 3345

3348 Aircraft Accident Investigations (3-0). A detailed evaluation of the methods and procedures involved in aircraft accident investigation including the organization, duties, and procedures of the Aircraft Accident Board.

3352 Multi-engine Ground (3-0). Procedures, operations, maneuvers, and dual flight designed to prepare the student for FAA Multi-engine Airplane Rating.

Prerequisite: Private Pilot license.

3357 Aerodynamics (3-0). A study of aircraft design and performance.

3371 Aviation Law (3-0). Overview of federal, state, and local government impact on the aviation sector, including trends in transportation policy.

3372 Human Factors in Aviation (3-0). Examination of the importance of interpersonal skills and human interaction in relation to safety and effectiveness in the aviation environment. Includes the concepts of processes, role issues, and practice in implementing these concepts.

Commercial Aviation (CAV) continued

3373 Principles of Transportation (3-0). Development and practice of rail, motor, air, water, and pipeline carriers and shippers, including the influence of economic principles, government regulations, and public policy.

3374 Federal Aviation Regulation (3-0). A survey of the administrative laws, administrative law procedures, and civil penalty assessments of the Federal Aviation Administration and the National Transportation Safety Board. Includes the FARs, Advisory Circulars, the rule making process, violations, enforcement actions, seizures, expunction policy, appellate forum, and appeals to the U.S. Court of Appeals.

3375 Aviation Safety (3-0). Trends in aviation safety practices with an emphasis on future safety enhancements.

3376 Advanced Helicopter Operations Ground (3-0). A discussion-based course designed to prepare helicopter students for the unique challenges of specific industry segments in commercial operations. Study of each will include risk management, qualifications and skills, equipment used, and special regulatory and management procedures.

Prerequisites: Commercial Aviation 2350, Private Pilot's Certificate

3377 Helicopter Commercial II (3-0). Dual flight instruction and solo flying designed to prepare the student for the FAA Commercial Helicopter Certificate. Restricted to only one flight class per semester. Special fee.

Prerequisite: Helicopter Instrument Rating Certificate.

3380 Air Transportation (3-0). Economic aspects of passenger and cargo air transportation, including practices, problems, and regulations. A writing enhanced course.

3381 Air Traffic Administration (3-0). The background and operation of the Federal Aviation Administration with emphasis on the air traffic control system.

4147 Non-Radar Laboratory (0-3). Laboratory experience designed to accompany Commercial Aviation 434 7. Scenarios emphasizes the non-radar enroute structure.

4148 Terminal Operations Laboratory (0-3). Laboratory experience designed to accompany Commercial Aviation 4348. Emphasizes advanced tower and radar operations.

4149 Enroute Operations Laboratory (0-3). Laboratory experience designed to accompany Commercial Aviation 4349. Emphasizes scenarios on simulators related to advanced enroute controller operations in both the radar controller position (R side) and the radar associate position (RA side).

4175 Helicopter Instrument Flight Instructor Ground and Flight (1-0). Ground and flight instruction of aeronautical knowledge necessary to instruct instrument flight maneuvers and procedures. Designed to prepare the student for the FAA CFII written and practical examinations. Special fee.

Prerequisites: Commercial Aviation 4331, 4372.

Additional requirements: FAA issued Certified Flight Instructor Certificate, valid Driver's License, current medical certificate, aircraft renter's insurance.

4192 Instrument Flight Instructor Ground and Flight (1-0). Ground and flight instruction of aeronautical knowledge necessary to instruct instrument flight maneuvers and procedures. Designed to prepare the student for the FAA CFII written and practical examinations. Special fee.

Prerequisites: Commercial Aviation 4331, 4332.

Additional requirements: FAA issued Certified Flight Instructor Certificate, valid Driver's License, current medical certificate, aircraft renters insurance.

4331 Flight Instructor Ground (3-0). Ground instruction on fundamentals of instruction and aeronautical knowledge necessary to act as an instructor. Designed to prepare students for the FAA CFI written and practical exam. This course is a component of the culminating experiences for the Flight Operations-Fixed Wing track. Instrument Rating Certificate and Commercial pilot license. Fulfills the capstone experience requirement.

4332 Certified Flight Instructor Flying (3-0). Dual and solo flight designed to prepare the student for the FAA flight instructor airplane check ride. Special fee. Restricted to only one flight class per semester.

Corequisite: Commercial Aviation 4331.

Prerequisites: Commercial Aviation 3163, 3352.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renters insurance.

4345 Crew Resource Management (3-0). Provides an in-depth study of crew resource management including thorough coverage of crew communications, teamwork, leadership, "followership," decision-making, and situational awareness. Covers the knowledge needed to conduct a safe and efficient flight.

4347 Non-Radar Procedures (3-0). Emphasizes the comprehensive knowledge of non-radar air traffic procedures, including airspace utilization, flight plans, general control procedures, data display management, initial departure separation, IFR clearance to departing aircraft, communication requirements, and separation standards.

Prerequisite: Commercial Aviation 3346

4348 Terminal Operations (3-0). This course is the capstone course for terminal air traffic control operations. Covers advanced tower and radar operations and procedures combined, using advance air traffic techniques.

Prerequisite: Commercial Aviation 4347

4349 Enroute Operations (3-0). This course is the capstone course for enroute air traffic operations. Covers the enroute ATM system, publications, FAA regulations, separation standards, airspace utility, aircraft types and characteristics, fundamentals of navigation, pilot ' s environment, flight assistance and emergencies, special operations, weather, communications, and teamwork.

Prerequisite: Commercial Aviation 4347

4350 Aviation Management (3-0). Application of management and other business and economic techniques to the problems of aviation managers. A component of the culminating experience for the aviation administration track. Fulfills the capstone experience requirement.

Commercial Aviation (CAV) continued

4360 Airport Management (3-0). Airline, commuter, and general aviation operations, terminal utilization, support facilities, disaster plans, noise abatement plans, community relations, airport financing, legislation and legal environment. This course is a component of the culminating experience for the aviation administration track. Fulfills the capstone experience requirement.

4372 Helicopter Certified Flight Instructor Flying (3-0). Dual flight designed to prepare the student for the FM flight instructor helicopter check ride. Special fee. Restricted to only one flight class per semester.

Corequisite: Commercial Aviation 4331.

Additional requirements: Valid Driver's License, current medical certificate, aircraft renter's insurance.

4387 Advanced Aircraft Systems (3-0). Introduction to aircraft systems commonly found in more complex airplanes. Includes turbojet power plants, hydraulic, flight control, electrical pneumatic, environmental, and warning/emergency systems. Boeing 727 aircraft is used as a model for the course. This course is a component of the culminating experience for the Flight Operations-Fixed Wing track.

Communication (COMM)

1315/SPCH 1315 Public Speaking (3-0). Planning, organizing, and delivering of general platform speeches and speeches for special occasions.

1335/COMM 1335 Introduction to Radio/Television/Film (3-0). A survey of the radio/TV cable industry in America including programming, regulations, technology and history. (Credit may not be earned for this course and Mass Media 1335.)

1337/COMM 1337 Beginning Video Production (3-0). Operation and use of television production equipment; fundamentals of digital video production and direction using single- and multi-camera formats. (Credit may not be earned for this course and Mass Media 1337.)

2303/COMM 2303 Audio Production (3-0). Capturing quality recordings in the field and studio. Course assignments will include preproduction planning, scheduling, writing and editing audio projects. (Credit may not be earned for this course and Mass Media 2303.)

2330/COMM 2330 Introduction to Public Relations (3-0). Exploration of the history and development of public relations. Presentation of the theory behind and process of public relations, including the planning, implementation, and evaluation of PR campaigns.

2335/SPCH 2335 Argument and Debate (3-0). Principles of argument and debate. Practice in preparing written and spoken arguments, with emphasis on principles of critical thinking.

2341/SPCH 2341 Oral Interpretation (3-0). Imaginative and skillful oral reading of literary texts through study of literature styles and presentation techniques. The student will learn to perform prose, poetry, and dramatic texts for general audiences.

3311 Small Group Communication (3-0). A course to develop skill in leading and participating in small group interaction. Special emphasis on the nature of small groups, factors influencing communication in groups, and small group decision making.

3321 Principles of Persuasion (3-0). An analysis and evaluation of various forms of attitudinal and behavioral control from propaganda to brainwashing. Emphasis on theories of attitude change as applied to modern institutions.

3336 Social Media Management (3-0). This course will explore how public relations strategies have been influenced by various social media sites. Students will learn how to utilize social media for public relations goals including outreach, consumer relations, social responsibility, and crisis management.

3337 Crisis Communication (3-0). This course focuses on crisis communication and management, emphasizing practical application of theories, strategies, and tactics from a public relations perspective.

3342 Advertising Principles (3-0). A study of the principles and practices of advertising, with an emphasis on the strategic process and preparation of advertising for the mass media. (Credit may not be earned for this course and Mass Media 3342.)

3351 Nonverbal Communication (3-0). A lecture-discussion-activity course focusing on non-verbal processes in human interaction.

3352 Communication in Professional Life (3-0). A course designed to investigate the role of human communication in professional life. Attention to interviewing, workplace culture, interpersonal and team communication, technology, professional presentations, leadership, and work life balance.

3355 Intercultural Communication (3-0). Examines the influence of culture on communication from a human perspective. The course emphasizes increased awareness of one's own culture in relation to cultures different than his/her own.

3356 Negotiation and Conflict Management (3-0). Examines the role that negotiation plays in the conflict management process with a focus on principled negotiation. The course will examine the differences between competitive and cooperative negotiation focusing on foundations of effective negotiation.

3360 Sports Broadcasting (3-0). This course will provide an introduction to the Sports Broadcasting Media Industry. Students will learn the various role within conducting a live sports broadcast for local television. The roles to be taught in the course will feature: Play-By-Play, Color Analyst, Sports Production and Reporting. (Credit may not be earned for this course and Mass Media 3360.)

3361 Electronic Media Programming (3-0). Theories and strategies of program selection, scheduling and evaluation for electronic media. Theory and practice producing and scheduling prime time television programs. (Credit may not be earned for this course and Mass Media 3361.)

Prerequisite: Communication 1337 or Mass Media 1337 and advanced standing.

Communication (COMM) continued

3363 Electronic News Gathering and Production (3-0). Theory and practice of producing video newscasts on location and in a station environment. Focus on shooting and editing. Extensive hands-on experience with equipment. Production of multiple packages and news pieces. (Credit may not be earned for this course and Mass Media 3363.)

Prerequisite: Communication 1337 or Mass Media 1337, and advanced standing.

3366 Film as Message (3-0). Students will examine selected contemporary films. Interpersonal communication theories, nonverbal communication theories, and rhetorical theories will be used to see how the film creates its message through camera angles, color, gender and cultural assumptions, language choices, and proxemics.

3370 Communication and Media Law (3-0). A study of statutory, administrative, and case law relevant to the First Amendment and U.S. communication industry. Attention given to applicable Texas Law. (Credit may not be earned for this course and Mass Media 3370.)

3381 International Study Abroad in Communication (3-0). This course is designed for classes offered through the study abroad program. Course topics vary by program. The course may be repeated for up to 6 hours to meet major requirements.

4301 Senior Seminar (3-0). Capstone course for all areas of communication, emphasizing portfolio development and other preparation for entry into the communication profession. Course topics also include: professional communication excellence, job reviewing, team communication, cultural sensitivity, and work-life balance. (Credit may not be earned for this course and Mass Media 4301.)

4311 Advanced Interpersonal Communication (3-0). Study of communication in dyadic and small-group settings with particular emphasis placed on self-concept theory, interpersonal perception, and communication barriers.

4335 Advertising/Public Relations Campaigns and Cases (3-0). Case-method and campaign planning as they pertain to advertising and public relations administration. Emphasis on development of creative strategy and media selection. (Credit may not be earned for this course and Mass Media 4335.)

4337 Event Planning in Public Relations (3-0). Explores principles and practices of managing events for both non-profit and for-profit organizations. Emphasizes organization, site preparation, communications, personnel, and security as well as evaluation and innovation. Students will gain hands-on experience.

4351 Communication Theory (3-0). A critical examination of theories and research in communication. The course will focus on rhetorical, interpersonal, group, mass, and organizational communication theories.

4355 Mass Media Effects and Ethics (3-0). A study of social science research methodology as applied to mass media research. The course will examine current theories of the effects of mass media on audiences. The study of reasoning and ethical decision making as they relate to the mass media. (Credit may not be earned for this course and Mass Media 4355.)

4365 Advanced Video Production (3-0). Theories and techniques for producing, directing, and editing single and multiple-camera productions; to include script writing, shooting, and post production for video field and studio work. (Credit may not be earned for this course and Mass Media 4365.)

Prerequisite: Communication 1337 or Mass Media 1337.

4371 Organizational Communication (3-0). The theoretical investigation and practical application of organizational communication principles. Studies will focus on information processing and problem solving within organizations.

4379 Communication Internship. Students gain on-the-job experience by working in industry. Limited to advanced students majoring in Communication. Participants are selected on the basis of written applications submitted to the department chair one semester in advance.

Prerequisite: Advanced standing.

4381 Special Topics (3-0). Selected topics in communication. May be repeated once for credit when topic varies.

Prerequisites: Senior standing and department chair approval.

4391 Research. A specialized course which may be directed reading or research for superior students majoring in communication.

Prerequisites: Senior standing and department chair approval.

Computer Science (CS)

1191 Freshman Research I. Freshman research for students selected for a freshman research grant. This course satisfies the first semester of that research requirement.

Prerequisite: Approval from department chair is required prior to enrollment.

1314 Introduction to Programming and Problem Solving (3-0). Basic competency in computer programming, ability to solve problems by writing computer programs, knowledge of the Python language and an introductory knowledge of object-oriented programming.

1315/COSC 1315 Fundamentals of Programming (3-0). Introductory computer programming techniques using a modern, object-oriented programming language.

1336/COSC 1336 Computer Science I (3-0). Fundamental concepts of structured computer programming and a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, use of common data structures, and the mechanics of running, testing, and debugging computer programs

1337/COSC 1337 Computer Science II (3-0). Object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. Basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software

Prerequisite: Computer Science 1336.

1351 Java Programming (3-0). Programming concepts and development in the Java language.

Computer Science (CS) continued

1371 Introduction to Computer Game Development (3-0). An introduction to computer game development. Topics include the history of game development, player motivation, game elements, storytelling, characters, game play, level design, interface design, audio, project management, production, marketing and maintenance.

1391 Freshman Research II. Freshman research for students selected for a freshman research grant. This course satisfies the second semester of that research requirement.

Prerequisite: Approval from department chair is required prior to enrollment.

2324 3D Modeling and Animation I (3-0). Introduction to three-dimensional (3D) modeling and animation utilizing industry standard software. The course includes the modeling and modification of 3D geometric shapes, as well as introduction to camera techniques, light sources, textures, rigging, weight-mapping models and rendering for animation.

2336/COSC 2336 Data Structures and Algorithms (3-0). Fundamental concepts of data structures and algorithms. Topics include data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), searching, sorting, recursion, and algorithmic analysis. Programs will be implemented in an appropriate object oriented language.

Prerequisite: Computer Science 1337.

3304 Computer Organization (3-0). Basic computer organization with emphasis on machine representation of data and instructions; programming in assembly and machine-oriented languages for real and simulated computers.

Prerequisite: Computer Science 1337.

3310 Principles of Linux (3-0). This course will introduce the students to UNIX and systems programming. Students will use a Linux environment to learn user and administrative commands, create scripts using shell scripting languages, and program using C language, implementing UNIX concepts such as processes, inter-process communication and sockets.

Prerequisite: Computer Science 1337.

3311 Database Systems (3-0). Introduction to database systems, including the relational data model, query languages, database design, index and file structures, query processing and optimization, concurrency and recovery, transaction management and database design, and database security. Students acquire hands-on experience in working with database systems and in building web-accessible database applications.

Prerequisite: Computer Science 1337.

3312 Web Programming (3-0). Developing interactive web applications. Learning front-end and back-end web development, focusing on technologies like HTML, CSS, JavaScript, and frameworks for building responsive user interfaces. Server-side programming using contemporary languages and working with databases. Web security, APIs, and deployment practices. Creating full-stack web applications and deploying on the web.

Prerequisite: Computer Science 3311 or Management 4344.

3313 Cloud Computing (3-0). This course introduces the cloud computing concepts from both a technical and business standpoint. Topics covered include cloud architecture, services, security, server and storage virtualization, mobile cloud computing, compliance, and technical support, as well as cloud principles, administration, and data center relocation. Preparing for industry certifications is included in coverage.

Prerequisite: Computer Science 2336.

3325 Animation and Modeling II (3-0). Intermediate methods for three-dimensional (3D) modeling and animation, including spline drawing, dynamic object emitters, surface mapping, skelegons, inverse kinematics, and extended lighting, texturing, and camera techniques.

Prerequisite: Computer Science 2324.

3331 Programming Languages (3-0). An introduction to the syntax and semantics of programming languages. Actual programming languages may be used to illustrate the language concepts.

Prerequisite: Computer Science 2336.

3344 Computer Architecture (3-0). Study of the hardware components of a computer system and survey of various computer architectures. Topics may include instruction set design, computer arithmetic, and microprogramming.

Prerequisite: Computer Science 3304.

3352 Analysis of Algorithms (3-0). Algorithm analysis, review of basic data structures, binary search trees, balanced binary search trees, priority queues and heaps, hash tables, sorting and selection algorithms, greedy algorithms, divide-and-conquer, dynamic programming, graph algorithms, shortest paths, minimum spanning trees, network flow, NP-completeness, approximation algorithms, randomized algorithms.

Prerequisite: Computer Science 2336.

Prerequisite or Corequisite: Mathematics 2305

3371 Computer Game Development I (3-0). Introduction to the design and implementation of computer games, including realtime graphics, audio and interactive multimedia programming techniques.

Prerequisite: Computer Science 2336.

3372 Handheld Game Development (3-0). Computer game development for one or more handheld computing devices. Programming topics include graphics, audio, user interfaces and development tools. Other topics may include content creation, developer workflow, hardware acceleration, and power management.

Prerequisite: Computer Science 2336.

4071 Internship: 1 to 3. Supervised internship with an approved cooperating business or government entity. The internship requires a minimum of ten hours per week. May be repeated for a total of three credits.

Prerequisites: Junior or Senior Computer Science major. Approval from the department chair is required prior to enrollment.

4091 Research: 1 to 6. Supervised research with a faculty member for students majoring in computer science. May be repeated for a total of six credits.

Prerequisites: Junior or Senior Computer Science major. Approval from the department chair is required prior to enrollment.

Computer Science (CS) continued

4301 Automata Theory and Formal Languages (3-0). An introduction to the formal study of automata and of related formal languages with applications in computer science.
Prerequisite: Computer Science 2336.

4302 Operating Systems (3-0). A study of the design and implementation of operating systems; analysis of system resource management, including the memory, processor, device, and information management functions.
Prerequisite: Computer Science 2336.

4303 Operating System Security (3-0). Modern operating systems security concepts. Access control fundamentals, security in ordinary operating systems, security kernels, securing commercial operating systems, case studies, secure capability systems, secure virtual machine systems, and system assurance.
Prerequisite: Computer Science 4320.

4306 Software Engineering (3-0). Introduction to the fundamental concepts of computer software development; programming methodology; software reliability; performance and design evaluations, software project management; program development languages, tools and standards.
Prerequisite: Computer Science 2336.

4307 Ethical Issues in Computing (3-0). Seminar style with discussion of the concern for the way in which computers pose new ethical questions or pose new versions of standard moral problems and dilemmas; study of ethical concepts to guide the computer professional; and computer professional codes of ethics. Case studies will be used to relate to ethical theory. Discussion will include ethical and legal use of software and conflicts of interest.
Prerequisite: Junior standing.

4308 Computer Graphics (3-0). Study of hardware and software found in graphics systems. Topics such as line and curve drawing, text generation, transformation methods for two and three dimensional systems, fill algorithms, fractal curves and hiddenline algorithms.
Prerequisites: Computer Science 2336 and Mathematics 2312.

4310 Database Security (3-0). An overview of database security concepts and techniques and will discuss new directions of database security. The topics will cover database application security models, database and data auditing, XML access control, trust management, and privacy protection.
Prerequisite: Computer Science 4320.

4312 Internet Technologies (3-0). Technologies that make up the Internet including servers, clients, protocols, browsers and mechanisms for executable content.
Prerequisite: Computer Science 2336.

4314 Computer Networks (3-0). Introduction to the principles and basic concepts of computer networking, including the Internet. Networking concepts, protocols and technologies are broken down into layers.

4318 Artificial Intelligence (3-0). Fundamental concepts and techniques of intelligent systems; representation and interpretation of knowledge on a computer; search strategies and control.
Prerequisite: Computer Science 2336.

4319 Machine Learning (3-0). Introduction to machine learning and statistical pattern recognition. Supervised and unsupervised learning and reinforcement learning of algorithms. Application of machine learning algorithms using open-source software libraries.
Prerequisite: Computer Science 2336.

4320 Introduction to Computer and Network Security (3-0). In-depth look at the security risks and threats to an organization's electronic assets, and an overview of components used in an enterprise security infrastructure. Topics will include theoretical background as well as practical techniques to secure an enterprise network.

4321 Deep Learning (3-0). This course introduces the fundamental concepts and techniques of deep learning. Topics include neural networks, backpropagation, convolutional networks, recurrent networks, and practical applications in areas such as computer vision and natural language processing. Students will implement deep learning models using frameworks like TensorFlow or PyTorch.
Prerequisite: Computer Science 4319.
(Pending THECB approval)

4322 Image Processing (3-0). This course focuses on the fundamentals of image processing and analysis. Topics include image enhancement, filtering, edge detection, image segmentation, and morphological operations. Students will implement techniques in Python and apply them to tasks such as object recognition and image restoration.
(Pending THECB approval)

4325 Robotics (3-0). This course covers the principles and technologies behind robotics systems, including sensors, actuators, kinematics, control algorithms, and robot vision. Students will learn to design and program autonomous robots capable of navigating and interacting with their environment.
(Pending THECB approval)

4327 Reinforcement Learning (3-0). This course covers the core principles of reinforcement learning, including Markov decision processes, dynamic programming, Q-learning, and policy gradient methods. Students will learn how to design agents that can learn and adapt to dynamic environments, with practical applications in AI game design and robotics.
(Pending THECB approval)

4330 Introduction to Data Science (3-0). Utilize tools and writing programs for acquiring, cleaning, analyzing, exploring, and visualizing data; making data-driven inferences and decisions; and effectively communicating results. Learning data manipulation, data analysis with statistics and machine learning, data communication with information visualization, working with big data using scalable techniques.
Prerequisite: Computer Science 2336.

4333 Data Mining (3-0). This course explores techniques for discovering patterns and insights from large datasets. Topics include classification, clustering, association rule mining, and anomaly detection. Students will apply algorithms such as decision trees, k-means, and Apriori using tools to solve real-world data problems.
Prerequisite: Computer Science 3311.
(Pending THECB approval)

Computer Science (CS) continued

4335 Big Data (3-0). This course introduces students to the challenges and techniques of handling large-scale data. Topics include distributed data processing, Hadoop, MapReduce, Spark, and NoSQL databases. Students will work with big data tools to process and analyze massive datasets in real-world scenarios.

Prerequisite: Computer Science 3311.

(Pending THECB approval)

4338 Knowledge Engineering in AI (3-0). This course explores the techniques of knowledge representation and reasoning in AI systems. Topics include ontologies, expert systems, rule-based reasoning, and semantic web technologies. Students will apply knowledge engineering methods to build intelligent systems capable of solving complex problems.

Prerequisite: Computer Science 3311.

(Pending THECB approval)

4339 AI Systems and Applications (3-0). This course covers the design and implementation of AI systems across various domains. Topics include search algorithms, optimization, intelligent agents, and decision-making systems. Students will build AI applications in fields such as healthcare, finance, and robotics, integrating AI techniques into practical solutions.

Prerequisite: Computer Science 4318.

(Pending THECB approval)

4340 Offensive Security Techniques (3-0). This course will introduce cybersecurity practices of penetration testing and malware analysis. In virtual machine environments, the students will freely but safely exploit system vulnerabilities by deploying offensive security techniques, such as reconnaissance and backdoor, and determine how to avoid such problems.

Prerequisites: Computer Science 1314, 3310, 4314, 4320.

4341 Natural Language Processing (3-0). This course introduces the foundational methods in natural language processing (NLP), including text preprocessing, syntactic and semantic analysis, machine translation, and sentiment analysis. Students will implement NLP algorithms using libraries for real-world language-based applications.

(Pending THECB approval)

4350 Advanced Offensive Security Techniques (3-0). This is the second course in the offensive security series. Some of the topics that will be discussed: malware development strategies such as shellcode payloads and buffer overflow exploitations, reverse engineering approaches for locating software flaws and malware analysis, and scripting techniques for attacking web applications.

Prerequisites: Computer Science 3304, 4340.

4360 Host and Device Security (3-0). This course will discuss methods used to ensure confidentiality, integrity and availability of information using host and device-based security techniques. Topics covered are operating systems security configuration, access control and malware defense on individual hosts, security techniques on networking devices such as switches and routers, firewall designs and implementations, intrusion detection and prevention systems, and public facing security techniques, such as de-militarized zones.

Prerequisites: Computer Science 3310, 4314, 4320.

4370 Software Security (3-0). This course is a study of the foundation of software security. Students will learn the characteristics of secure software, the role of security in the development life cycle, designing secure software, best security programming practices, security for web applications, static analysis techniques, and software security testing.

Prerequisite: Computer Science 2336, 4320.

4371 Computer Game Development II (3-0). Continuation of Computer Science 3371. Advanced game programming techniques, including designing game mechanics, concepts of emergence and progression, and the use of visual design tools.

Prerequisite: Computer Science 3371.

4375 Cybersecurity Risk Management (3-0). An overview of cyber risk management concepts and techniques. Risk identification, assessment, and management. An overview of frameworks, relevant regulations, and available tools. Risk-based assessment, including reporting audit issues, and designing internal controls. Risk management with governance models and risk management techniques.

Prerequisite: Computer Science 4320.

4380 Ethical Issues in Software Security (3-0). An introduction of ethics in software development and security, enabling students to reason about the consequences of security-related choices and effects in software development, testing and vulnerability disclosure. Topics will include code reuse (licensing), professional responsibility, codes of ethics, liability aspects of software, regulations, compliance and ethical implications of testing.

4381 Special Topics in Computer Science (3-0). Contemporary applications and theory in computer science. (May be repeated once for credit when the topics vary.)

4389 Digital Forensics (3-0). Introduction to the topics of computer forensics, computer crimes, response to security incidents, cybercrime investigation and prosecution. Students will learn about legal issues, investigatory process, digital forensic tools, acquisition, preservation, analysis and authentication of evidence. Optional topic will include mobile forensics.

Prerequisite: Computer Science 2336, 4320.

4390 Cryptography (3-0). An introduction to important cryptographic concepts and techniques. Topics will include classical cryptography (codes, substitution ciphers, transposition ciphers), block and stream ciphers, secret-key ciphers (Feistel, DES, AES), public-key cryptography (RSA, key agreement, signature schemes), hash functions (such as MD6 and SHA-2). Optional topics will include cryptanalysis, steganography and quantum cryptography.

Prerequisite: Computer Science 2336 and Mathematics 2305.

4392 Cloud Security (3-0). Industry is increasingly adopting to run its IT and applications in the cloud. But off-premises on-demand infrastructures give rise to new security concerns. This course first addresses detecting risks and vulnerabilities of current cloud platforms using penetration-testing techniques. This course then focuses on securing the cloud by deploying security mechanisms such as isolation, data protection, identity and access management. This course will also cover governance, audit, legal issues and meeting regulatory compliance in a cloud environment.

Prerequisite: Computer Science 4314, 4320.

Computer Science (CS) continued

4399 Senior Design Project (3-0). Capstone project experience in designing, implementing, and testing an assigned hardware and/or software application in a team setting using techniques, methods, and skills learned in earlier classes. Students report progress via documentation, meetings and demonstrations. Class concludes with a presentation and demonstration of the completed product to students, faculty and project sponsors.

Prerequisite: Senior standing (Computer Science, Cybersecurity, or Artificial Intelligence majors only).

Criminal Justice (CRIJ)

1301/CRIJ 1301 Introduction to Criminal Justice (3-0). Topics for this course include history and philosophy of criminal justice and ethical considerations, crime defined, its nature and impact, overview of criminal justice system, prosecution and defense, trial process, corrections.

1306/CRIJ 1306 Courts System and Practices (3-0). Topics for this course include the judiciary in the criminal justice system, right to counsel, pre-trial releases, grand juries, adjudication process, types and rules of evidence and sentencing.

1310/CRIJ 1310 Fundamentals of Criminal Law (3-0). Topics for this course include a study of the nature of criminal law, philosophical and historical development, major definitions and concepts, classification of crime, elements of crimes and penalties using Texas statutes as illustrations, criminal responsibility.

2313/CRIJ 2313 Correctional System and Practices (3-0). Correction in the criminal justice system; organization of correctional system; correctional role; institutional operations: alternatives to institutionalization; treatment and rehabilitation; current and future issues.

2314/CRIJ 2314 Criminal Investigation (3-0). Topics for the course include instruction on investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

2323/CRIJ 2323 Legal Aspects of Law Enforcement (3-0). Topics for the course include instruction on police authority, responsibilities, constitutional restraints: Law of Arrest; Search and Seizure; Police Liability.

2328/CRIJ 2328 Police Systems and Practices (3-0). Topics for the course include instruction on the police profession, organization of law enforcement systems: The police role; police discretion; ethics; police-community interaction; current and future issues.

3302 Research Methods (3-0). An introduction and overview of the methods used to conduct research in the field of Criminal Justice and social sciences in general.

3303 Theory and Practice in the Juvenile Justice System (3-0). An intensive examination of the juvenile justice process. Topics focus on the specialized nature of the juvenile system, including juvenile law, the varied roles of juvenile courts, the police and correctional agencies, and an analysis of contemporary American juvenile justice philosophy and practice.

3304 Transnational Crime (3-0). This course differentiates the historical and contemporary patterns, modus operandi, capabilities, and vulnerabilities of transnational criminals and organizations. Course content includes a review of the contemporary literature of South American, Mexican, Asian, European, and African criminal enterprises, traditional organized crime, outlaw motorcycle gangs, and transnational criminal enterprises. In this seminar course the student will conduct directed research on a transnational crime topic and present the results of that research to the class.

3305 Perspectives on Crime in America (3-0). An intensive examination of American crime problems in historical perspective. Through the lens of various perspectives regarding the cause and prevention of crime, the course explores the social and public factors affecting crime, the divergent trends in criminal behavior, and the social characteristics of specific types of criminal deviance.

3306 International Drug Trafficking (3-0). This course is an in-depth study of the epidemic of drug abuse and its association with crime. The course encompasses all aspects of both legal and illegal drug abuse, pharmacology, gang activity, youth, violence, and behavioral pathology. It will also provide a robust examination of public policy issues associated with resolving the national drug control issue, drug trafficking, trends towards decriminalization/legalization, and law enforcement response. Students will have the opportunity to discuss contemporary drug-related issues of the day related to enforcement, medical treatment, harm reduction, or educational responses. Professor directed research in any of these drug policy issue areas will close out the course, enabling students to apply knowledge gained from the course to formulate intelligently their own opinions to develop possible societal solutions to this important national policy crisis.

3308 International Human Trafficking (3-0). This course distinguishes between various types of human trafficking; provides an overview of the history of human trafficking and counterstrategies; discusses the causes and consequences of human trafficking; and critically assesses the achievements of counterstrategies devised and implemented by governments, international organizations, and private actors. This is a writing intensive course in which the student will perform directed research on topics related to human trafficking.

3312 Criminal Justice Administration (3-0). This course surveys the managerial and organizational philosophies and principles available to criminal justice administrators. It explores the strengths and weaknesses of various practices used to organize and manage personnel, define operational procedures, and determine essential functions within policing, judicial, and corrections agencies.

3323 Wildlife Crimes (3-0). This course is designed to begin with an overview of the world's wildlife and conservation crime problem from a global perspective as well as the United States Fish and Wildlife Department. The wildlife crime problem is a preferred economic business practice of many organizations, including transnational organized crime groups and some terrorist organizations. The modules created for use in this course are designed to progress from the world view of wildlife and conservation crime to a more localized perspective that encompasses the full spectrum of social, political, and economic issues affecting the United States. Finally, the violence and threat emanating from many wildlife criminal organizations will be studied, and future trends and implications will top off the course. (Credit may not be earned for this course and Border Security 3323.)

Criminal Justice (CRIJ) continued

3325 Cyber Space, Cyber Security, and Cyber Crime (3-0). This course provides an overview of cybercrime and its impact on today's criminal justice system. This course will focus on the type and extent of various cybercrimes, and theoretical explanations of these crimes. Students will also learn about the interrelationships between cybercrime and traditional crime within the context of criminology.

3345 Cybercrime Laws and Procedures (3-0). Students in this course will define current cyber laws and regulations as they relate to cybersecurity and cybercrime. Students will also examine the cybercrime investigation procedure, as well as criminal justice responses to cybercrimes, including how to set up a secure lab, the process for forensic investigation including first responder responsibilities, and how to handle various incidents and information on the various reports used by computer forensic investigators.

4071 Internship in Criminal Justice (1-6 SCH). A participant-observation course designed to familiarize students with the application of knowledge gained in course work and with operations and issues in the areas of local law enforcement or criminal justice agencies. Students must be officially pursuing the criminal justice degree and have senior standing. Instructor approval is required.

4091 Independent Research: 1 to 6. A specialized course that may be directed reading or research for superior students majoring in Criminal Justice. Department approval required.

4310 Community Corrections (3-0). Focuses on the analysis and evaluation of programs and processes in community settings such as diversion, probation, parole, and other community-reintegration procedures. Programs are discussed in terms of definition, history, purpose, possibilities, administration and process, problems, cost, and effectiveness.

4315 Cybercrime Investigation (3-0). Students in this course will conduct an in-depth analysis on investigative processes related to deconstructing and disassembling crimes committed in cyberspace. Students will examine how traditional investigations of crime have each evolved through the use of technology and digitalization to include using computer systems as both tools for crime and targets of crime. Students will also explore and define the various roles of law enforcement in investigating cybercrime, facilitating relationships with other organizations, and managing cyber-victimization.

Prerequisite: Criminal Justice 3325 and 3345.

4330 Seminar on Correctional Problems (3-0). Examination of the most important obstacles faced by corrections in America. Emphasis on professional shortcomings, system deficiencies, and public inadequacies.

4341 Comparative Study of Justice (3-0). This course examines issues related to crime throughout the world. It enables students to learn how to identify, analyze, and compare the criminal justice in the U.S. with those of other countries. Also, it encompasses the basic worldwide philosophies of law and justice and the international cooperation for prime prevention and law enforcement.

4350 Seminar on Police Problems (3-0). An examination of the most important obstacles encountered by American law enforcement with emphasis upon professional shortcomings. Relies heavily upon guided independent student problem identification, research, analysis, and the formulation of recommendations. Requires completion of the law enforcement transfer curriculum and senior standing.

4354 Professionalism and Ethics in Criminal Justice Agencies (3-0). The study of theories and practices in areas of legality, morality, values, and ethics as they pertain to criminal justice. Included will be such topics as police corruption, brutality, and methods of dealing with such practices, as well as the concept of profession and professional conduct. This course is for Border Security or Criminal Justice majors and minors only. (Credit may not be earned for this course and Border Security 4354.)

Prerequisite: Senior standing.

4360 Police Personnel Management (3-0). An examination of the present dimensions and future trends of police personnel management with special emphasis on employee development programs, performance appraisal, discipline, and labor relations, including collective bargaining and police unions.

4369 Gangs: Causes and Consequences (3-0). This course provides students with a comprehensive introduction to gangs. The substantive focus of this course is the causes and consequences of, and responses to gang behaviors and processes. Students will be exposed to a range of issues related to gangs.

4381 Special Topics (3-0). A course dealing with selected topics in the criminal justice field. (May be repeated once for credit when topic varies.)

Prerequisite: Junior standing.

Cultural Competence (CUL)

2323 World Cultures (3-0). In this course, students will analyze the importance of culture around the world. Students will be introduced to cultures while exploring the historical, contextual, and cultural differences of various regions. Basic concepts related to culture will be introduced and their relevance illustrated through case studies on how culture has impacted the world.

3310 Introduction to Cultural Competence: Making Sense of the World I (3-0). This course serves as an introduction to various analytical approaches for understanding the dynamics of cross-cultural interaction. Students will explore the variety of "worlds" made visible through the lens of theory. The course aims to foster critical thinking about how cultural constructs shape our understanding of the world and attempted solutions to global problems.

3312 Cultural Competence: Making Sense of the World II (3-0). This course is a continuation of Cultural Competence 3310 that extends its analysis of cultural constructs to include specific issues related to international relations, solutions to global problems, and national security.

Cultural Cometence (CUL) continued

4350 World Cultures Capstone (3-0). In this course, students will apply the knowledge and skills that they have learned in Cultural Competence 2323, 3310, and 3312 to a capstone research project on World Cultures. The focus of this course will be to analyze the importance of culture around the world and then apply this analysis to an in-depth research project within the specific context of a particular world region, including but not limited to, Africa, Asia, Europe, Latin America, and the Middle East, and their historical, contextual, and cultural differences.

Early Childhood (ECH)

2305 Socio-Cultural Influences on Child Development (3-0). This course explores the influences of society, culture, political issues, family, and experiences on personal identity and learning success with special emphasis on the development of social competence and self-discipline, as well as the culture of schools and classrooms.

3350 Developmentally Appropriate Environments (3-0). This course links cognitive, physical, social, and affective developmental domains to children's experience and environment. The focus is on connecting developmental sequence and theory to real world experience and practice through play, fine arts, health, music, movement, food, and PE. A field-based experience is required.

Prerequisites: Early Childhood 2305, Education 2302. Both with a "C" or better.

4350 Applied Child Development (3-0). This course focuses on understanding and analyzing relationships between developmental sequences and children's styles and processes of thinking, problem solving, cooperative interaction, and self-direction. The role of adults in mediating children's accomplishments is emphasized through planning of creative classroom experiences during supervised field experiences with young children including supervised experiences with young children. A field-based experience is required.

Prerequisites: Early Childhood 3350, Educational Psychology 3303, Special Education 2361. All with a "C" or better.

Economics (ECON)

1300 Economic Issues (3-0). A one-semester introduction to microeconomic and macroeconomic principles, focusing on contemporary social and economic issues including economic growth and development, poverty and welfare programs, international trade, and government spending and taxation. This course may not be taken to satisfy economics course requirements for the Bachelor of Business Administration degree.

2301/ECON 2301 Principles of Macroeconomics (3-0). Economic principles, aggregate income, output, and employment; money, fiscal, and monetary policy.

Prerequisite: Mathematics 1314 or 1324 or 1342.

2302/ECON 2302 Principles of Microeconomics (3-0). Product pricing, resource allocation, factor pricing, income distribution, and economic growth; contemporary problems such as foreign trade and agriculture.

Prerequisite: Mathematics 1314 or 1324 or 1342.

3311 Intermediate Macroeconomics Theory (3-0). Analysis of the determinants of aggregate demand and supply with special emphasis on macroeconomic problems such as unemployment and inflation.

Prerequisite: Economics 2301.

3312 Intermediate Microeconomics Theory (3-0). Intermediate price theory, including theory of demand, production and cost theory, theory of the firm, and factor markets.

Prerequisite: Economics 2302.

3320 Economics for Managers (3-0). The application of economic theory to the management of firms. Includes topics of demand and consumer behavior, production and costs, theory of firms, and public policy towards business. This course is specifically designed for business majors.

Prerequisite: Economics 1300 or 2301 or 2302 and Management 2331.

3331 Comparative Economic Systems (3-0). This course is a study of various types of economic systems ranging from a free market economy to a centrally planned economy. This includes capitalism, socialism, communism, and modifications to these basic models.

Prerequisites: Economics 1300 or 2301 or 2302 or equivalent.

3360 Money and Banking (3-0). The role of money, financial markets, and institutions. Monetary theory, central bank monetary policy, and the international financial system. (Credit may not be earned for this course and Finance 3360).

Prerequisite: Economics 2301.

4304 Industrial Organization (3-0). The purpose of this class is to link the behavior observed in actual markets with the abstract models of firms and industries that are a core part of microeconomics theory. The study of industrial organization differs from microeconomics in that it has an empirical component and focus on public policy not found in most theory courses. Industrial organization deals with many of the problems that are typically assumed away when students first learn about firms and industries, including imperfect information, product differentiation, transaction costs, ownership integration, etc. These features of the real world raise two questions: how does the structure of industry and business practices affect consumer welfare, and what policies, if any, can be employed to promote market outcomes that are closer to the competitive ideal.

Prerequisite: Economics 2302.

4306 Law and Economics (3-0). The purpose of this course is to introduce students to the application of economic reasoning to the law. This will be a survey course, that covers a range of topics, including property and contract law, public regulation of the market, corporate law, taxation, legal processes, and constitutional law. The course will be particularly useful for students considering law school or those students interested learning more about the relationship between economics and law.

Prerequisite: Economics 2302.

Economics (ECON) continued

4307 International Economics (3-0). This is a foundation course that covers international trade theories and policy. The course highlights sources of comparative advantage, gains and losses from trade, the impact of trade on economic growth, and effects of trade policy interventions such as tariffs, quotas, voluntary export restraints, and export subsidies. International agreements on regional trade liberalization (such as EU and NAFTA) and on multilateral trade liberalization (e.g., WTO) will also be discussed. Topics on international finance include balance of payments and determination of foreign exchange rates.

Prerequisites: Economics 2301 or 2302 or equivalent.

4308 Economic Development (3-0). This course deals with the disparity of material world and considers a few key questions: Why have some countries remained poor, volatile, and violent? Will these countries see future growth in incomes, stability, and freedom? What role has the West played in past failures, and what role (if any) should it play in the future? The course will cover the history, politics and economics of development, and dabbles in geography, sociology, and anthropology. Topics include causes of poverty, wealth and inequality; the nature of economic growth; and the roles of the state, markets, social and cultural institutions in economic development.

Prerequisite: Economics 2301.

4309 Quantitative Methods in Social Sciences (3-0). This course to introduce students to quantitative methods and how they are applied in social science research. The course is a practical introduction to statistics, it engages with empirical analysis, showing students how to analyze data and to interpret the results. The course encourages hands-on learning to understand and describe the behavior of individuals, groups and organizations.

Prerequisite: Management 2331 or equivalent statistics.

4371 Internships in Economics. Students will participate in a structured work experience. A pass or fail grade will be assigned by the instructor based on input on student performance by the employment supervisor using the weekly journals prepared by the students. (Course may be repeated once for credit with permission of the instructor or department chair.)

Prerequisite: Permission of the instructor.

4381 Special Topics (3-0). Selected topics in economics. May be repeated once for credit when the topic varies.

Prerequisite: Junior status.

4391 Research. A specialized course which may be directed reading or research for superior students.

Prerequisite: Departmental permission.

Education (ED)

2302 Teacher Education and Practice (3-0). Designed to provide an overview of the practice of teaching in today's society and the skills and tools required by the classroom teacher.

Students must have applied and been accepted into the Teacher Education Program (TEP) prior to enrolling in any of the upper division education courses listed below.

4309 Mathematics: Instructional Strategies for the Elementary and Middle School Teacher (3-0). This field-based course emphasizes the integration of research and theories about the process of learning mathematics. The development of logical reasoning in students, stages of intellectual development, appropriate questioning and problem solving strategies and techniques will be used with students in field settings. Addresses instructional strategies and materials for teaching mathematics. A field-based experience is required. (Must be taken concurrently with Education 4311 and Education 4314.)

Prerequisites: Mathematics 1314 or 1324, 1350, 1351. Must be admitted into the Teacher Education Program.

4311 Social Studies: Instructional Strategies for the Elementary and Middle School Teacher (3-0). This field-based course emphasizes the integration of research and theories about the processes of learning social studies in the elementary and middle schools. Problem solving, critical thinking, and citizenship will be stressed. Addresses instructional strategies and materials for teaching social studies. A field-based experience is required. (Must be taken concurrently with Education 4309 and Education 4314.)

Prerequisites: History 1301, 1302, 3301, Political Science 2305, 2306. Must be admitted into the Teacher Education Program.

4314 Science: Instructional Strategies for the Elementary and Middle School Teacher (3-0). This field-based course emphasizes the integration of research and theories about the processes of learning science. The major science processes such as observing, experimenting, measuring, classifying, analyzing, interpreting, sequencing, recognizing properties and patterns, and inferring will be used with student in field experience settings. Addresses instructional strategies and materials for teaching science. A field-based experience is required. (Must be taken concurrently with Education 4309 and Education 4311.)

Prerequisites for Early Childhood to Grade 6 B.S.: Biology 1308/1108, Geology 1301/1101 or 1303/1103, Physical Science 3311, 3312. Must be admitted into the Teacher Education Program.

Prerequisites for Generalist Grades 4-8 B.S.: Biology 1306/1106 and 1307/1107, Geology 1301/1101 or 1303/1103, Physical Science 3311, 3312. Must be admitted into the Teacher Education Program.

4315 The Elementary School: Organization and Management (3-0). Focus is on the organization and management of classroom environments, curriculum, time management, planning, and student behavior. Legal and ethical issues related to schools and public education are addressed. Teacher candidates acquire knowledge, skills, and ability by observing and working with experienced public school teachers in elementary classrooms. To be taken concurrently with clinical teaching (student teaching) placement. A seminar format conducted by teams of university and/or public school teachers is utilized.

Prerequisites: Education 4311 and/or 4314, and/or 4309 and admission to the Student/Clinical Teaching Program.

4321 Secondary Learning Theories and Curriculum (3-0). This course is a study of the structure, organization, and management of the secondary school system. It includes an examination of secondary learning theories, special student populations, and the legal and ethical aspects of teaching. A field experience is required.

Prerequisite: Admission to the Teacher Education Program.

Education (ED) continued

4322 Teaching Techniques in the Secondary School (3-0). This course is a study of the teaching process in the secondary school, including secondary methodologies, lesson design, measurement and evaluation of student achievement, instructional media and technology. A field-based experience is required.

Prerequisite: Education 4321.

4323 Teaching in the Secondary School (3-0). Focus is on the organization and management of classroom environments and student behavior. Legal, ethical, and teacher professional performance issues related to public schools are addressed. To be taken concurrently with clinical teaching.

Prerequisites: Education 4321, 4322, Reading 4320 all with a "C" or better, and admission into the Student/Clinical Teaching Program.

4331 Ram Resident Seminar 1 (3-0). Focus is on planning, instruction, and classroom learning environment. Teacher candidates will acquire knowledge, skills, and ability by observing, working with, and co-teaching with experienced public school teachers in elementary classrooms.

Corequisites: Reading 4301, Education 4309, 4311, 4314.

4332 Ram Resident Seminar 2 (3-0). Focus is on the organization and management of classroom environment, curriculum, and planning. Teacher candidates will acquire knowledge, skills, and ability by observing, working with, and co-teaching with experienced public school teachers in elementary classrooms. To be taken in the second semester of the Ram Resident placement.

Prerequisites: Education 4331 and admission to the Ram Resident Program.

4381 Special Topics (3-0). Selected topics in education. May be repeated once for credit when topic varies.

4391 Research. A specialized course which may be directed reading or research for superior students in education.

Education (ED)

Student/Clinical Teaching

4699 Internship. This course provides supervision during a probationary period of employment in a school district. This course may be repeated until completion of the probationary period. Grading will be either pass or fail.

4972 Clinical Teaching (student teaching) in Grade 4 to Grade 8. Participation in supervised teaching Grade 4 to Grade 8. Grading will be either pass or fail.

4973 Supervised Teaching in the High School. Observation of and participation in supervised teaching in appropriate public school settings for students seeking Grades 7-12 teacher certification. Grading will be either pass or fail.

4974 Supervised Teaching All Levels. Observation of and participation in supervised teaching in appropriate public school settings for students seeking all level teacher certification. Grading will be either pass or fail.

4975 Clinical Teaching (student teaching) in Early Childhood to Grade 6. Participation in supervised teaching in early childhood to Grade 6 in an elementary and/or middle school. Must be admitted to the Clinical Teaching Program. Grading will be either pass or fail.

Education - Adult Education (EDAE)

3301 Adult Learning Theories (3-0). An examination of the theoretical basis of learning including the characteristics of andragogy, contributions of major theorists, and various learning styles of adult learners.

3310 Socio-Cultural Influences on Adult Learners (3-0). An evaluation of how the influences of society, culture, political issues, family, and experiences impact the success and development of adult learners.

3311 Linguistically Diverse Adult Learners (3-0). Designed to enhance awareness, respect, understanding, and appreciation of the strengths of linguistically and culturally diverse learners through examination of research, study of theory, curriculum, assessment, methodology, and classroom environment that foster a climate of respect, learning, equity, and excellence. The unique challenges of the adult learner are addressed.

3330 Teaching and Practice in Adult Education (3-0). An examination of the practice of teaching in today's society and an analysis of the skills and tools required by today's instructors in adult education settings.

3340 Principles of Assessment (3-0). An analysis of assessment strategies, formal and informal, to assess, plan, monitor, and evaluate the development and learning of adult students. Effective means of providing feedback will be explored.

4310 Adult Learner Development (3-0). A study of human development processes including physical, cognitive, social, emotional, and personality development. Aspects of learning, motivation, behavior management, diverse learners, and socio-cultural elements are examined with specific emphasis on the adult learner.

4320 Trends in Training and Development (3-0). An analysis of trends and issues in training and development including distance and virtual education, assessment and evaluation, and addressing learner needs.

4321 Development of Curriculum and Training for Adults (3-0). An examination of the principles of adult learning, approaches to curriculum and training development, and components of effective curriculum and training.

4330 Instructional Methods and Practices (3-0). An in-depth study of the teaching process, including measurement and evaluation of student achievement, instructional media and technology, instructional planning, and best practices.

Prerequisite: Education - Adult Education 3330.

4340 Assessment and Evaluation (3-0). An examination of appropriate assessment and evaluation strategies for the instructor of adults to utilize. Both formal and informal assessments are evaluated for effectiveness in assessing adult learner performance and for planning of future instruction.

Prerequisite: Education - Adult Education 3340.

Educational Psychology (EPSY)

3303 Child and Adolescent Development (3-0). A study of human development processes from childhood to adolescence including physical, cognitive, social, emotional, and personality development. Aspects of learning, motivation, classroom management, behavior management, diverse learners, and socio-cultural elements are examined. A case study report is required.

3314 Culturally Diverse Learners (3-0). Designed to enhance awareness, respect, understanding, and appreciation of the strengths of linguistically and culturally diverse learners through an examination of the research, the study of theory, curriculum, assessment methodology, and classroom environments that foster a climate of respect, learning, and excellence.

Engineering (ENGR)

1091 Independent Study (1-6). Independent study or individual research problems for lower division engineering students. May be repeated for a total of 12 hours.

Prerequisite: Departmental permission.

1101 Engineering Leadership and Career Development (1-0). Exploration and research in various aspects of leadership, communication, student development, and career paths in engineering. Grading will be either pass or fail. May be repeated for a total 12 hours.

Prerequisite: Departmental permission.

1201/ENGR 1201 Introduction to Engineering (2-0). An introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

1304/ENGR 1304 Engineering Graphics (2-2). Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics.

Prerequisite: Engineering 1201.

1307/ENGR 1307 Plane Surveying (2-3). Development of skills necessary to recognize and solve problems in surveying; introduction and use of various precision instruments used for surveying, including level, theodolites, electronic distance measuring equipment, and total stations for collecting field data; introduction of Global Positioning Systems (GPS) and Geographic Information Systems (GIS) and their use in surveying; and use of graphic design software, such as AutoCAD or Microstation, in surveying problems.

Prerequisites: Engineering 1201, Mathematics 1316, and completion or current enrollment in Engineering 1304.

1308 Introduction to Geomatics (2-3). Principles of surveying data collection, analysis and application. Covers measurement of elevation, distance, horizontal and vertical angles, using instruments such as levels, theodolites and total stations. Analysis of measurements to determine latitude, longitude and elevation in various coordinated systems as well as measurement errors. Application of survey data to engineering design using GIS and 3-D modeling software.

Prerequisites: Engineering 1201, Mathematics 1316, and completion or current enrollment in Engineering 1304.

2201 Computer Aided Design and Prototype Design (1-3). Use of solid modeling platforms to address the design of common machine and structural elements. An introduction to the concepts and practice of 3D printing, with applications including gears, shafts, fasteners, and mechanisms.

Prerequisite: Engineering 1304.

2301/ENGR 2301 Engineering Mechanics - Statics (3-1). Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia.

Prerequisites: Physics 2325/2125 and credit for or concurrent enrollment in Mathematics 2414.

2302/ENGR 2302 Engineering Mechanics - Dynamics (3-1). Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

Prerequisite: Engineering 2301.

2304/ENGR 2304 Programming for Engineers (3-0). Programming principles and techniques for matrix and array operations, equation solving, and numeric simulations applied to engineering problems and visualization of engineering information; platforms include spreadsheets, symbolic algebra packages, engineering analysis software, and laboratory control software.

2305/ENGR 2305 Electrical Circuits (2-3). Fundamental principles of electric circuits. Network analysis, fields, DC analysis, series and parallel circuits, resistance, inductance, capacitance, current sources, and AC circuit analysis.

Prerequisites: Mathematics 2413 and Physics 2326, 2126.

2318 Sustainable Development Principles (3-0). Environment, society, and economics are key components of a sustainable civilization. This course explores concepts of sustainable development and systems analysis. It applies measurement tools such as the causal loop diagram, life cycle assessment, and economic analysis. Students will learn how the principles of sustainable development can be used to analyze infrastructure systems which support humanity.

Prerequisite: Mathematics 1314 or 1324.

2332/ENGR 2332 Mechanics of Materials (2-2). Stresses, deformations, stress-strain relationships, torsion, 2D stress and strain transformations, failure theories, bending stresses, transverse shear stresses, elastic beam deflections, elastic flexural buckling, and combined stresses.

Prerequisites: Engineering 2301 and Mathematics 2414.

3305 Probability and Risk in Engineering (3-0). Modeling of random processes in engineering design and decision making. Fundamentals of probability spaces; random variables, dependence and independence; mean values and moments. Development of mathematical and simulation models, and their relevance to engineering design and decision making.

Prerequisite: Mathematics 3415.

Engineering (ENGR) continued

3331 Engineering Materials (2-3). Introduction to engineering material chemistry, microstructure, failure, and processing. Evaluation of material performance under applied loads for engineering applications. Physical properties of metals, ceramics, polymers, and composites. Related ASTM tests to evaluate mechanical properties of engineering materials.

Prerequisites: Chemistry 1311, 1111 and Engineering 2332.

3404 Introduction to Fluid Mechanics (3-3). Introduction of properties of fluids, conservation of mass, energy and momentum with applications to internal and external flows. Laboratory collection and analysis of data from experiments to determine fluid and flow field properties with emphasis on conservation principles.

Prerequisite: Engineering 2302; Civil Engineering Majors, Mechanical Engineering Majors, or Departmental permission.

4094 Engineering Cooperative Education (1-6). Cooperative education experience with industry. May be repeated for a total of 12 semester credit hours. Grading will be either standard letter grade or pass/fail and is determined by the contract prior to registration.

Prerequisite: Departmental permission and Contract.

4201 Professional Engineering Practice (2-0). The role of the engineer as a design professional . Professional responsibility and liability, contract law, risk management, contract formation, business practices, ethics and professional registration.

Prerequisite: Senior standing.

4364 Green Building Design (3-0). Application of energy balance, fluid flow concepts and materials behavior to the design of green buildings. Emphasis on energy efficiency, natural ventilation, water efficiency and materials efficiency.

Prerequisites: Engineering 2301 and Mathematics 2414; Civil Engineering or Mechanical Engineering Majors only; or Departmental permission.

4367 Finite Element Analysis (2-2). Theory of the finite element method for common engineering elements including trusses, beams, plates, shells, and solids. Application to structural and mechanical engineering using finite element analysis theory and software.

Prerequisites: Civil Engineering or Mechanical Engineering Majors only; one of the following: Computer Science 1314, Computer Science 1336, or Engineering 2304; and Mathematics 3324.

English (ENGL)

1191 Preliminary First-Year Research Experience in English. A one-hour independent research course with English faculty mentor in the fall semester that covers topics related to undergraduate research/creative endeavor in English. By the end of the fall semester, student will have a specific research/creative endeavor agenda for English 1391. Department permission required.

1301/ENGL 1301 English Composition (3-0). Emphasizing the writing process, the course offers abundant practice in producing effective prose essays as well as in analyzing and discussing selected readings.

Prerequisites: Completion of English Texas Success Initiative (TSI) requirements.

1302/ENGL 1302 Writing Across the Curriculum (3-0). A course in critical reading and writing across the curriculum, including the research process and the research paper.

Prerequisite: English 1301 or equivalent credit.

1391 First-Year Research Experience in English. An independent research course based upon topic or issue identified in English 1191 by first-year English major and led by student's faculty mentor. Student will begin the research/creative process and prepare for a presentation at the Angelo State University Undergraduate Research Symposium. Departmental permission required.

2311/ENGL 2311 Introduction to Technical and Business Writing (3-0). Intensive study of and practice in writing in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Prerequisites: English 1301 or equivalent credit.

For degree plans requiring English sophomore literature, the sophomore literature requirement may be met by taking any of the sophomore literature courses offered (2321, 2322, 2323, 2326, 2329, 2331, 2341). The courses may be taken in any sequence or any combination.

2321/ENGL 2321 Introduction to British Literature (3-0). A study of diverse works by British writers. Emphasis on reading, comprehending, appreciating, and thinking critically about the selected works within the context of British culture and literary history.

2326/ENGL 2326 Introduction to American Literature (3-0). A study of diverse works by American writers. Emphasis on reading, comprehending, appreciating, and thinking critically about the selected works within the context of American culture and literary history.

2329 Introduction to Literary Studies (3-0). Introduction to the study of literature featuring works by various writers. Emphasis on critical reading and writing with understanding of literary theory and critical methodology. Recommended for English majors.

Prerequisites: English 1301 and 1302.

2331/ENGL 2331 Introduction to World Literature (3-0). A study of diverse works by writers from various countries. Emphasis on reading, comprehending, appreciating, and thinking critically about the selected works within the context of the culture and literary history of the works' origins.

2340 Introduction to the Study of Language (3-0). An introduction to the scientific study of language: the nature of human language, language and the brain, language and society. Includes phonetics, phonology, morphology, syntax, and semantics/pragmatics.

Prerequisite: English 1302.

2341/ENGL 2341 Forms of Literature (3-0). An introductory course in which students explore the choices authors make in literary genre and craft.

English (ENGL) continued

3301 Medieval English Literature (3-0). English literature of the Middle Ages from the Anglo-Saxon period to the fifteenth century.
Prerequisite: Three semester hours of sophomore literature.

3309 Victorian Literature (3-0). Major English works of the Victorian period exclusive of the novel.
Prerequisite: Three semester hours of sophomore literature.

3311 English Renaissance Literature (3-0). English literature of the sixteenth and seventeenth centuries, excluding Shakespeare. Typical studies include drama, lyric poetry, dramatic poetry, and prose.
Prerequisite: Three semester hours of sophomore literature.

3312 English Literature of the Restoration and Enlightenment (3-0). Major English authors from 1660 to 1785, with analysis of representative works.
Prerequisite: Three semester hours of sophomore literature.

3313 British Romantic Literature (3-0). A study of the Romantic movement in England, with analysis of representative works.
Prerequisite: Three semester hours of sophomore literature.

3315 Modern British Literature (3-0). A study of British literature of the Modern Period, from 1900-1945, with analysis of representative works from a variety of genres and authors.
Prerequisite: Three semester hours of sophomore literature.

3317 American Romantic Literature (3-0). A study of American literature from 1820-1865, with emphasis on the emergence of Romanticism and Transcendentalism.
Prerequisite: Three semester hours of sophomore literature.

3318 American Realist and Naturalist Literature (3-0). A study of American literature from 1865-1914, with emphasis on the emergence of Realism and Naturalism.
Prerequisite: Three semester hours of sophomore literature.

3319 American Modern to Contemporary Literature (3-0). A study of American literature from 1914 to the present, with emphasis on the emergence of Modernism and Postmodernism.
Prerequisite: Three semester hours of sophomore literature.

3320 Descriptive Linguistics (3-0). An examination of the science of human language: phonetics, phonology, morphology, syntax, semantics/pragmatics.
Prerequisite: English 1302.

3323 English Phonology and Morphology (3-0). Study of the speech sound system and the study of the structure of words.
Prerequisite: English 2340 or 3320.

3326 English Syntax and Semantics (3-0). Study of the rules of phrase and sentence formation and meaning of morphemes, words, phrases, and sentences.
Prerequisite: English 2340 or 3320.

3330 Advanced Composition (3-0). Advanced technique and practice in writing processes as well as in rhetorical, literary, and stylistic analysis.
Prerequisites: English 1301, English 1302 or 2311.

3331 American Literature to 1870 (3-0). A survey of authors, genres, themes, and movements in American literature before 1870.
Prerequisite: Three semester hours of sophomore literature.

3332 American Literature after 1870 (3-0). A survey of authors, genres, themes, and movements in American literature after 1870.
Prerequisite: Three semester hours of sophomore literature.

3333 British Literature to 1800 (3-0). A survey of authors, genres, themes, and movements in British Literature to 1800.
Prerequisite: Three semester hours of sophomore literature.

3334 British Literature After 1800 (3-0). A survey of authors, genres, themes, and movements in British literature after 1800.
Prerequisite: Three semester hours of sophomore literature.

3336 Folklore (3-0). A study of folk motifs of various cultures throughout the world.
Prerequisite: Three semester hours of sophomore literature.

3338 Ancient Greek and Roman Myths (3-0). A study of stories from ancient Greece and Rome about gods, demigods, and heroes and the relations of those stories to historical and contemporary contexts. Selected readings in translation.
Prerequisite: Three semester hours of sophomore literature.

3339 Ethnic American Literature (3-0). A study of the contributions of one or more ethnic groups, excluding works covered in English 4336: Mexican American Literature.
Prerequisite: Three semester hours of sophomore literature.

3341 Contemporary Literature (3-0). A study of selected works of literature written within the past half century. Will include a variety of authors, genres, and national literary traditions.
Prerequisite: Three semester hours of sophomore literature.

3344 American Cinema (3-0). A study of the cinema of the United States —history, auteurs, genres, masterworks—as a cultural phenomenon reflecting and shaping the American identity while expressing national ideals, aspirations, conflicts, and anxieties.
Prerequisites: English 1301, English 1302 or 2311, and fulfillment of Core Language, Philosophy, and Culture requirement.

3351 Advanced Technical Writing (3-0). Study and practice in document development for majors in agriculture, engineering, mathematics, nursing, science, and other technical fields. The course includes intensive use of computer skills, especially word processing and graphics.
Prerequisite: 60 semester credit hours.

3352 Business Communications (3-0). Study of and practice in the skills and knowledge needed to communicate effectively in today's business environment.
Prerequisites: English 1301, English 1302 or 2311.

3353 Web Publishing (3-0). Comprehensive overview of analyzing and designing functional websites for the workplace. Focuses on theoretical aspects and practical applications of web design, as well as principles and practices of multimedia design and implementation.
Prerequisites: English 1301, English 1302 or 2311.

English (ENGL) continued

3354 Intercultural and International Writing (3-0). Comprehensive overview of the role of culture in technical and business writing practices with a focus on designing professional documents for intercultural and international audiences.

Prerequisites: English 1301, English 1302 or 2311.

3355 Fiction and Fiction Writing (3-0). A study of the theory and accepted practices of fiction and fiction writing. Writing assignments may include both critical essays and original fiction.

Prerequisite: Three semester hours of sophomore literature.

3356 Poetry and Poetry Writing (3-0). A study of the theory and accepted practices of poetry and poetry writing. Writing assignments may include both critical essays and original poetry.

Prerequisite: Three semester hours of sophomore literature.

3360 Travel and Study USA (3-0). A travel course in English studies related to destination within the United States and to topic selected by instructor. May be repeated once when destination or topic varies.

Prerequisites: 30 semester credit hours, GPA of 2.50, and department permission.

3361 Travel and Study Abroad (3-0). A travel course in English studies related to destination outside of the United States and to topic selected by instructor. May be repeated once when destination or topic varies.

Prerequisites: 30 semester credit hours, GPA of 2.50, and department permission.

4071 Internship in English: Credit 1 to 6. An internship experience with advanced assignments in writing, literacy, editing, web design, or teaching English as a second language. (English 4071 may be repeated with a limit of 6 hours total.)

Prerequisites: 60 hours - including current semester credit hours, a 2.50 or higher cumulative GPA at the time of application, and department permission.

4309 Shakespeare (3-0). A study of Shakespeare's dramatic and non-dramatic works.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4310 Studies in the British Novel (3-0). The study of a variety of topics and authors in the British novel.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4311 Topics in British Literature (3-0). A study of one or more topics in British literature.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4319 Sociolinguistics (3-0). A study of the role of language in society and how society in turn impacts language use.

4321 Teaching Literature in the Secondary Schools (3-0). A survey of best practices in teaching literary history and textual analysis in the secondary schools, including an understanding of and practice in the Texas English/Language Arts Standards in reading.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4322 Teaching Writing in the Secondary Schools (3-0). A survey of best practices in teaching writing in the secondary schools, including an understanding of and practice in the Texas English/Language Arts Standards in writing.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4323 Methods of Teaching Foreign/Second Language (3-0). Study and application of perspectives, theories, pedagogies, and methods of language teaching and learning.

Prerequisites: English 2340 or 3320, and English 4340.

4328 Studies in a Single Author (3-0). A study of one author's creative development and production. (May be repeated once when author varies.).

Prerequisites: Three semester hours of sophomore literature and English 3330.

4329 Studies in Short Fiction (3-0). A study of major works, authors, periods, and/or theories of short fiction. Specific topics may vary.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4330 African-American Literatures (3-0). A study of African-American literary texts in various genres.

Prerequisite: Fulfillment of Core Language, Philosophy, and Culture requirement.

4332 Studies in the American Novel (3-0). The study of a variety of topics and authors in the American novel.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4335 Comparative Literature (3-0). Non-English literature in translation. Emphasis may vary from semester to semester upon theme, genre, or national literature.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4336 Mexican American Literature (3-0). The literature of Mexican American authors in various genres.

Prerequisite: Fulfillment of Core Language, Philosophy, and Culture requirement.

4337 Women's Literature (3-0). A study of literary texts, in various genres, by women.

Prerequisite: Fulfillment of Core Language, Philosophy, and Culture requirement.

4338 Reading Graphic Novels (3-0). An introduction to the special visual language of comics, as well as a survey of graphic fiction, memoir, and journalism.

Prerequisite: Fulfillment of Core Language, Philosophy, and Culture requirement.

4340 Psycholinguistics (3-0). Study of language and the brain, particularly child language acquisition and adult language learning, but also linguistic performance and oral and print comprehension and production.

Prerequisite: English 3320.

English (ENGL) continued

4344 Topics in American Literature (3-0). A study of one or more topics in American literature. (May be repeated once when topic varies.)

Prerequisites: Three semester hours of sophomore literature and English 3330.

4353 Literary Criticism (3-0). A study of critical theories and/or methods of literary interpretation.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4355 Film Criticism (3-0). A study of the cinema as an art form and an index to popular culture.

Prerequisites: English 1301, English 1302 or 2311, fulfillment of Core Language, Philosophy, and Culture requirement.

4360 Professional Editing (3-0). Study and practice in editing methods for business, technical, scientific, and other professional documents, both electronic and paper. Practical experience includes editing documents produced by the business community and university.

Prerequisites: English 1301, English 1302 or 2311.

4361 English Grammar (3-0). A study of grammar, including grammatical forms and functions, sentence structure, and diagramming.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4363 History of the English Language (3-0). A study of the structures of Old, Middle, Modern, and Present Day English, including readings from the various periods.

Prerequisites: Three semester hours of sophomore literature and English 3330.

4365 Usability Testing (3-0). Overview of usability testing (testing of products, product documentation, and web sites) procedures in technical and business writing, including the construction of a usability testing lab, practice at conducting usability tests through a service-learning project, and methods for reporting usability findings to clients.

Prerequisites: English 1301, English 1302 or 2311.

4367 Topics in Technical and Business Writing (3-0). A study in one or more topics in technical and business writing. (May be repeated once for credit when topic varies.)

Prerequisites: English 1301, English 1302 or 2311.

4373 Professional Writing (3-0). Strong emphasis on building writing skills and developing student identity as a professional. Culminates in the assembly of a professional portfolio that the student can use in the search for internships and post-graduation employment.

Prerequisite: 90 semester credit hours, including a 2.00 cumulative GPA in 12 advanced hours in English (3330, 3351 or 3352, 3353, 4360 strongly recommended) or department approval.

4376 Fiction Writing Workshop (3-0). Intensive practice in writing and evaluating fiction. May be repeated once for credit.

Prerequisites: Three semester hours of sophomore literature and English 3355.

4377 Poetry Writing Workshop (3-0). Intensive practice in writing and evaluating poetry. May be repeated once for credit.

Prerequisites: Three semester hours of sophomore literature and English 3356.

4381 Special Topics (3-0). Selected topics in English. (May be repeated once for credit when topic varies.)

Prerequisite: Fulfillment of Core Language, Philosophy, and Culture requirement.

4385 English Capstone (3-0). A capstone course providing students with an understanding of the history, theory, and value of an English degree. Students will reflect on their degree and future career, and they will articulate how their English skills transfer outside of the classroom. Students will develop a portfolio suitable to help them transition to academic or professional post-baccalaureate work.

Prerequisites: 80 semester credit hours and English 3330.

4391 Research. A specialized course which may be directed reading or research for superior students majoring in English.

Dual Credit: Off-Site Courses

English (ENGL)

ENGL 2322/ENGL 2322 British Literature I (3-0). A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

ENGL 2323/ENGL 2323 British Literature II (3-0). A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Ethnic Studies (ESTD)

2301 Introduction to Ethnic Studies (3-0). Introductory survey covering the academic field of Ethnic Studies. A central focus of the course will be exploring the ways that race and racism shape experiences in the past and present. The course will cover social, political, and economic perspectives, using interdisciplinary and comparative approaches.

4301 Ethnic Studies Capstone (3-0). This course is designed to engage Ethnic Studies minors in experiential learning and to critically explore both current and historical issues surrounding race, ethnicity, and culture in the United States.

Finance (FINC)

3301 Real Estate Fundamentals (3-0). A broad survey of real estate fundamentals including real and personal property, ownership and estates in land, agency relationships, contract requirements, Fair Housing Laws, and legal descriptions. Also included, the appraisal process, real estate financing, depreciation and current market valuation, as well as selling, marketing and purchasing real estate.

Finance (FINC) continued

3348 Retirement Planning (3-0). This course focuses on retirement planning for the business, the business owner, and the individual. It consists of two major parts. The first covers qualified plans, nonqualified plans, and IRAs; the second part deals with the retirement needs of individual clients. This course emphasizes the practical knowledge needed for choosing the best retirement plan and designing a plan that will meet a client's needs from a tax and retirement standpoint.

Prerequisite: Junior standing.

3360 Money and Banking (3-0). The role of money, financial markets, and institutions. Monetary theory, central bank monetary policy, and the international financial system. (Credit may not be earned for this course and Economics 3360.)

Prerequisite: Economics 2301.

3361 Financial Management (3-0). Financial management of the firm; valuation of the firm; working capital policy; capital budgeting; cost of capital; and long-term financing.

Prerequisites: Agricultural Economics 4342 or Management 2331, and Accounting 2301

3362 Personal Finance (3-0). Income and expenditure patterns; consumer protection and financial analysis of consumer problems; and personal money management.

Prerequisite: Junior standing.

3364 General Insurance (3-0). Theory of insurance and risk; types of insurance companies; contract terms and clauses; basic features of life, property, liability, and health insurance from a consumer's viewpoint.

Prerequisite: Junior standing.

3365 Corporate Financial Practices (3-0). Capital markets and valuation of the firm; capital budgeting; cost of capital; and leverage.

Prerequisite: Finance 3361.

4324 Credit Analysis and Lending (3-0). Provides an in depth understanding of credit and lending in financial institutions with a primary focus on banks. Will be delivered with a combination of lectures and cases. Course will include discussion with banking industry leaders.

Prerequisites: Accounting 3311 or Finance 3361.

4347 Estate Planning (3-0). Various aspects of estate and gift tax planning-including the nature, valuation, transfer, administration, and taxation of property are discussed. Particular emphasis is given to a basic understanding of the unified estate and gift tax system. This course covers gratuitous transfers of property outright or with trusts, wills, and powers of appointment. It also covers federal estate and gift taxation, the marital deduction, and various estate planning devices used in the estate planning process. In addition, the client interview, fact-finding, ethical standards, and the development of appropriate personal estate plans are discussed.

Prerequisite: Junior standing.

4361 Financial Institution Administration (3-0). The role of financial institutions in the economy; depository and non-depository financial institutions; legal environment; organizational structure; asset/liability management; and international aspects.

Prerequisite: Finance 3360 or Accounting 2302.

4363 Investments (3-0). Basic principles of investment; types of investment media; sources of information; characteristics of stocks and bonds; selection of securities; construction of an investment portfolio; and investment companies.

Prerequisite: Finance 3361.

4364 Security Analysis and Portfolio Management (3-0). Investment objectives; risk and return; analysis and selection of investment securities, timing; portfolio theory, and applications; and evaluation of portfolio performance.

Prerequisites: Finance 3361.

4367 International Finance (3-0). An examination of the international monetary system from World War II to present, transition from fixed to floating exchange rates. Emphasis given to interest arbitrage, spot and forward exchange rates, foreign exchange exposure and risk, reducing foreign exchange risk, capital budgeting and import/export financing in the study of multinational finance.

Prerequisite: Finance 3361.

4370 Applied Financial Planning (3-0). Integrates the financial planning content areas into the development of comprehensive financial plans.

Prerequisite: Junior standing.

4371 Internship. Students will participate in a structured work experience at the management trainee level. A pass or fail grade will be assigned by the instructor based on input on student performance from the employment supervisor and other agreed-upon requirements. May be repeated once for credit with approval.

Prerequisite: Approval of both the supervising instructor and the department chair.

4381 Special Topics (3-0). Selected topics in finance. May be repeated one for credit when topic varies.

4391 Research. A specialized course which may be directed reading or research for superior students majoring in finance.

Prerequisite: Junior standing.

Food Science (FSCI)

1329/AGRI 1329 Food Science (3-0). A fundamental knowledge of the food industry; food safety, sanitation, processing, classification and quality.

3300 Animal Products and Industry (2-2). Introduction and survey of the animal products industry intended to illustrate the diversity of animal products, animal product production practices and general food science principals. Emphasis is placed on student's knowledge of general food science practices and animal derived products. This course is intended for students majoring in fields other than Food Animal Science and Marketing and will focus on a general knowledge necessary to convey an overview of the animal products industry.

Food Science (FSCI) continued

3446 Introduction to Meat Science and Muscle Biology (3-2). The course evaluates the multiple facets of the meat industry from conception of meat animals to consumption of meat products. Knowledge of general history, food safety, inspection, physiology, muscle ultrastructure, harvest, fabrication, meat quality, and processing of meat products will be examined. The role of livestock and the meat industry in producing and providing safe and wholesome vital protein to the world will be emphasized.

Prerequisite: Junior standing.

4300 Food Regulations and HACCP (3-0). A survey of the current and historical food laws and regulations governing meat and food production within the U.S. Emphasis will be placed on organization and availability of these regulations that impact the industry. Additionally, this course will cover food safety programs and provide the opportunity for Hazard Analysis and Critical Control Points (HACCP) certification.

4344 Food Safety and Sanitation (3-0). Principles of sanitation in food processing and food service. A study of the physical, chemical and microbiological importance of food spoilage, food preservation, and the methods for control of microbiological growth. The national food service exam will be given at the end of the course.

Prerequisite: Food Science 1329.

4345 Food Microbiology (2-2). The study of microorganisms important in food production, spoilage, preservation, and illness. Nutrient needs, growth characteristics, beneficial products, testing methods, and illnesses caused by microorganisms will be investigated.

Prerequisite: Food Science 1329.

4381 Special Topics (3-0). A course dealing with selected topics in food science. May be repeated once for credit when topic varies.

4391 Food Science Research. Individual research problems. (May be repeated to a total of six semester hours credit.)

Prerequisites: Junior standing and Food Science 1329.

4447 Introduction to Processed Meats and Product Development (2-3). The course evaluates the facets of the processed meats industry beginning with historical perspective of processed meat products. Knowledge of general ingredient functionality, food safety, production, product coating, cookery, labeling, and formulation will be examined. Understanding of several key concepts relating to production and marketing of processed meat products in the crucial role of supplying prepared protein to the world in a growing consumer base.

Prerequisite: Senior standing and Food Science 3446.

French (FREN)

1301 French I (3-0). Introduction to basic structures and usage of modern French. The emphasis is on development of basic French vocabulary and grammar, accuracy of pronunciation, the acquisition of listening, speaking, reading, and writing skills, and the introduction of cultural elements.

1302 French II (3-0). A sequel to French 1301.

Prerequisite: French 1301 or equivalent.

2311/FREN 2311 French III (3-0). An expansion of the language skills acquired in French 1301 and 1302. Strengthening of basic structures and introduction of more complex structures. The course will increase accuracy in listening, speaking, reading, and writing French, and promote knowledge of cultural background.

Prerequisite: French 1302 or equivalent.

2312/FREN 2312 French IV (3-0). Fourth-semester capstone course organized around grammatical topics and cultural issues. Review and expansion of structural aspects, reading and discussion of selected French texts, and continued practice in composition and conversation.

Prerequisite: French 2311 or equivalent.

3339 French, German and Russian Film in 1920's (3-0). An overview of the different film genres that emerged in France, Germany and Russia during the 1920's with particular emphasis on Russian documentary, German expressionist, and French impressionist and surrealist film. (Credit may not be earned for this course and German 3339 or Russian 3339.)

4071 Internship in French: Credit 1 to 6. An internship experience with advanced assignments in French. (French 4071 may be repeated with a limit of 6 hours total.)

Prerequisite: 60 hours - including current semester credit hours, a 2.50 or higher cumulative GPA at the time of application, and department permission.

4328 French Cinema (3-0). Focusing on the history of French cinema, the course begins with films of the first filmmakers, the Lumière brothers, and ends with those of contemporary film directors. Students will be familiarized with film terminology and will learn how to analyze film critically. Students will be able to explore the role French film has played in shaping the discourse on national and cultural identity. Lectures and class discussions will be in English. French majors and minors are required to complete all written assignments in French.

4381 Special Topics (3-0). Selected topics in French. (May be repeated once for credit when topic varies.)

Prerequisite: French 2312 or equivalent, or consent of department chair.

4391 Research. A specialized course which may be directed reading or research for superior students in French. (May be repeated once for credit.)

Gender Studies (GST)

2301 Introduction to Gender Studies (3-0). Introductory survey of concepts and theories central to the study of gender and sexuality.

General Studies (GS)

1181 Freshman Seminar (1-0). Seminar on various contemporary topics. This course is designed to introduce incoming freshmen to the intellectual and cultural environment of the university and the impacts it will have on their lives as students. Freshman Seminars incorporate various integral elements in order to facilitate first-year students' transition from high school to college-level learning. Emphasis will be on communication, critical thinking, and information literacy. Open to all majors; restricted to and required of first-time-in-college students.

Prerequisite: Freshman classification or approval of instructor.

Geography (GEOG)

1101 Physical Geography Lab (0-2). The laboratory is designed to reinforce understanding of topics discussed in lectures. To be taken with Geography 1301.

1301/GEOG 1301 Physical Geography (3-0). A geography of the earth with a survey of its atmosphere, oceans, landforms, and environmental regions.

2305 Fundamentals of Geography (3-0). Designed to meet the needs of those planning to teach geography in all grades. The course introduces physical, human, and world geography, as well as basic geographical terms and concepts.

3302 Human Geography (3-0). A study of human interaction with the earth's natural environments considering the earth as the setting for human physical and cultural evolution.

3303 World Regional Geography (3-0). A survey of major world regions focusing on their distinctive physical and cultural characteristics and the role of each region in the world.

3304 Regional Geography of North America (3-0). A survey, within a regional framework, of the physical and human geography of the United States and Canada.

4300 Blue Gold: Water and Security in the West (3-0). This course explores the historical development of water demand and use in the American West, to understand the physical and international-federal-regional and local political aspects of the geography of western water supply and demand, to realize the vulnerability of western water supply to climate variability and change, and for the student to be able to critically analyze proposals designed to alleviate the growing disparity between water supply and demand in the region.

4381 Special Topics (3-0). A course dealing with selected topics in geography. (May be repeated once for credit when topic varies.)

4391 Research. A specialized course of directed reading or research for superior students majoring in history and/or requiring advanced geography credits for the completion of a multiple area minor. Must have departmental approval to register.

Geology (GEOL)

1101/GEOL 1101 Earth Science Laboratory (0-2). The laboratory designed to accompany Geology 1301. This laboratory will include experiments involving topics such as: rocks and minerals, streams, the ocean, groundwater, weather, climate, plate tectonics, and natural hazards. Concurrent enrollment in, or credit for, Geology 1301 is required.

1103/GEOL 1103 Physical Geology Laboratory (0-2). Laboratory activities designed to accompany Geology 1303. The laboratory includes experiments over topics such as Earth materials, structure, landforms, mineral resources, and plate tectonics.

1104/GEOL 1104 Historical Geology Laboratory (0-2). Laboratory activities designed to accompany Geology 1304. The laboratory includes experiments involving the interpretation of four billion years of Earth history recorded in rocks, including evolutionary changes and the use of fossils in time and space.

1191 Freshman Research. This course is for those who have received a freshman research grant. This course fulfills the first semester of that research.

Prerequisite: Instructor approval.

1301/GEOL 1301 Earth Science (3-0). An introduction to the study of the Earth including the atmosphere, geosphere, hydrosphere, and cryosphere. The course will cover general overview of topics such as: rocks and minerals, streams, the ocean, groundwater, weather, climate, plate tectonics, and natural hazards. Concurrent enrollment in, or credit for, Geology 1101 is required.

1303/GEOL 1303 Physical Geology (3-0). Earth materials, structure, landforms, mineral resources, and the processes that form them. Includes plate tectonics and how humans are affected by Earth processes.

1304/GEOL 1304 Historical Geology (3-0). Application of geological principles to interpret four billion years of Earth history recorded in rocks. Includes evolutionary changes and the use of fossils in time and space.

1347/GEOL 1347 Meteorology (3-0). An introduction to atmospheric properties, physical processes that govern weather and climate, and interactions between the atmosphere and the other components of the Earth system.

1391 Freshman Research II. This course is for those who have received a freshman research grant. This course fulfills the second semester of that research.

Prerequisites: Geology 1191 and instructor approval.

1401/GEOL 1401 Earth Science (3-2). An introduction to the study of the Earth including the atmosphere, geosphere, hydrosphere, and cryosphere. The course will cover general overview of topics such as: rocks and minerals, streams, the ocean, groundwater, weather, climate, plate tectonics, and natural hazards.

1403/GEOL 1403 Physical Geology (3-2). Earth materials, structure, landforms, mineral resources, and the processes that form them. Includes plate tectonics and how humans are affected by Earth processes.

1404/GEOL 1404 Historical Geology (3-2). Application of geological principles to interpret four billion years of Earth history recorded in rocks. Includes evolutionary changes and the use of fossils in time and space.

3102 Field Methods in Geology (0-3). An introduction to geologic mapping techniques. Tools used include Brunton compass, aerial photographs, and field notebook. Techniques will be applied to construct a geologic map during a required field trip over Spring Break. Should be taken immediately before taking Field Geology (GEOL 3600).

Prerequisites: Geology 3400 and 3402.

3302 Introduction to Hydrogeology (3-0). A quantitative overview of the hydrologic cycle including both surface and groundwater hydrology. Topics to include surface water, aquifer properties, groundwater, modeling, human use and abuse of water resources, contamination, and extraction.

Prerequisites: Geology 1303/1103 or 1304/1104 and Mathematics 1314.

Geology (GEOL) continued

3303 Environmental Geology (3-0). This course emphasizes the complex physical relations between land, sea, atmosphere, and human activity. Topics include geologic hazards, land management, water resources, hazardous waste disposal, energy resources, mineral resources, conservation of resources, and ocean science.

Prerequisites: Geology 1303/1103 or 1304/1104 and Mathematics 1314.

3304 Geomorphology (3-0). Geomorphology is the study of physical, chemical, and biological processes that occur on the surface of a planetary body. This course focuses on the origin, development and relationship of landforms created by fluvial, glacial, aeolian, and karst processes.

Prerequisite: Geology 1303/1103 or 1304/1104.

3308 Physical Oceanography (3-0). An introduction to oceanographic concepts, including the physical geologic setting of the ocean, atmospheric influences and the atmosphere-ocean interface, tropical processes, coastal geologic processes, thermodynamic processes related to waves and currents, and biological oceanography.

Prerequisite: Geology 1303 or 1304.

3310 Geochemistry (3-0). An introduction to the field of Geochemistry including topics of traditional rock Geochemistry, Aqueous Geochemistry, and Isotope Geochemistry using data collection and modeling techniques and scientific software.

Prerequisites: Chemistry 1311/1111 and Geology 1303/1103.

3371 Geomapping Fundamentals (3-0). An overview of geomapping concepts and terminology. Application of geomapping (GIS: Geographic Information Systems) software to analyze geological information. Topics include relational databases, spatial data analysis, and digital mapping.

Prerequisite: Sophomore standing or permission from instructor.

3400 Mineralogy and Petrology (3-3). Description, classification, and interpretation of igneous and metamorphic rocks. Interpretations include tectonic setting, processes of formation, and pressure-temperature conditions. Laboratory work consists of hand sample description, examination of thin sections under a petrographic microscope, and field trips.

Prerequisite: Geology 1303/1103 or 1304/1104.

3402 Sedimentology (3-3). Covers the processes that create, deposit, and diagenetically alter sediments, as well as the description of sedimentary rocks and related sedimentary structures.

Prerequisite: Geology 1303/1103 or 1304/1104.

3411 Structural Geology (3-3). A study of ways rocks and continents deform by faulting and folding, methods of picturing geologic structures in three dimensions, and causes of deformation. Includes a weekend field trip project and an introduction to geographic information systems (GIS).

Prerequisite: Geology 1303/1103 or 1304/1104.

3600 Field Geology (0-12). A five or six week summer field course on geologic mapping techniques. Techniques emphasized: measuring stratigraphic sections, collecting and plotting fold and fault data, drafting geologic maps and cross-sections, and preparing reports.

Prerequisites: Geology 3400, 3402, and 3411.

4071 Internship: 1 to 6. Supervised internship with an approved cooperating business or government entity. May be repeated for a total of twelve credit hours.

Prerequisite: Consent of the department chair.

4091 Research: 1 to 6. Supervised research with a faculty member in geosciences. May be repeated for a total of twelve credit hours.

Prerequisite: Consent of the department chair.

4181 Seminar in Geoscience (1-0). A course designed to introduce students to various geoscience topics and to encourage discussion and exchange of ideas amongst the geoscience majors and faculty. May be repeated once when topics vary.

Prerequisite: Junior standing or permission of the instructor.

4191, 4291, 4391 Research. Individual research problems for students seeking a minor in geology. May be repeated for a total of six semester credit hours.

4300 Introduction to Geophysics (3-0). This course is an introduction to the geophysical methods used to explore the Earth's subsurface with an emphasis on application. Topics include seismicity, ground penetrating radar, magnetics, gravity, and resistivity. (Credit may not be earned for this course and Physics 4300.)

Prerequisites: Geology 1303/1103 and Mathematics 2413.

4303 Planetary Geology (3-0). A capstone study of terrestrial objects including planets, moons, and asteroids to describe and understand the past evolution and current dynamic state of planetary surfaces. Major topics include planetary evolution and differentiation, and surface morphology as an expression of internal dynamics, atmospheres, volcanic activity, and impact cratering.

Prerequisites: Geology 1303/1103.

4304 Introduction to Volcanology (3-0). Introduction to the physical and chemical properties of magma, including magma generation, rise, storage, and eruptive mechanisms. Types of volcanoes, volcanic hazards, volcano monitoring, and the effect of volcanoes on climate change will also be discussed.

Prerequisite: Geology 1303/1103.

German (GER)

1301 German I (3-0). Introduction to basic structures and usage of modern German. The emphasis is on development of basic German vocabulary and grammar, accuracy of pronunciation, the acquisition of listening, speaking, reading, and writing skills, and the introduction of cultural elements.

1302 German II (3-0). A sequel to German 1301.

Prerequisite: German 1301 or equivalent.

2311/GERM 2311 German III (3-0). An expansion of the language skills acquired in German 1301 and 1302. Strengthening of basic structures and introduction of more complex structures. The course will increase accuracy in listening, speaking, reading, and writing German, and promote knowledge of cultural background.

Prerequisite: German 1302 or equivalent.

German (GER) continued

2312/GERM 2312 German IV (3-0). Fourth semester capstone organized around grammatical topics and cultural issues. Review and expansion of structural aspects, reading and discussion of selected German texts, and continued practice in composition and conversation.

Prerequisite: German 2311 or equivalent.

3338 Comparative Cultural Studies: Germany and Russia in the 20th Century (3-0). A comparative cultural study of Germany and Russia in the long 20th century, from Imperial Germany and Russia to the fall of the Berlin Wall and the advent of Perestroika. (Credit may not be earned for this course and Russian 3338.) German minors should take German 3338 and German 339 simultaneously.

3339 French, German and Russian Film in 1920's (3-0). An overview of the different film genres that emerged in France, Germany and Russia during the 1920's with particular emphasis on Russian documentary, German expressionist, and French impressionist and surrealist film. (Credit may not be earned for this course and French 3339 or Russian 3339.) German minors should take German 3338 and German 339 simultaneously.

4071 Internship in German: Credit 1 to 6. An internship experience with advanced assignments in German. (German 4071 may be repeated with a limit of 6 hours total.)

Prerequisite: 60 hours - including current semester credit hours, a 2.50 or higher cumulative GPA at the time of application, and department permission.

4381 Special Topics (3-0). Selected topics in German. May be repeated once for credit when topic varies.

Prerequisite: German 2312 or equivalent, or consent of department chair.

4391 Research. A specialized course which may be directed reading or research for superior students in German. (May be repeated once for credit.)

Health Science Professions (HSP)

2101/BIOL 2101 Human Anatomy and Physiology I Laboratory (0-2). This is a laboratory course to accompany Health Science Professions 2301. The lab activities focus on basic chemical organization, cell and tissue structure and function; and the study of the skeletal, muscular, and nervous systems.

Corequisite: Health Science Professions 2301.

2102/BIOL 2102 Human Anatomy and Physiology II Laboratory (0-2). This is a laboratory course to accompany Health Science Professions 2302. The lab activities focus on the endocrine system, cardiovascular and respiratory physiology, immunity, digestion, nutrition and metabolism, the urinary system, and the male and female reproductive systems.

Prerequisite: Health Science Professions 2301/2101.
Corequisite: Health Science Professions 2302.

2301/BIOL 2301 Human Anatomy and Physiology I (3-0-0). This course, which provides a comprehensive study of the anatomy and physiology of the human body with an emphasis on health and medical issues, is designed for students preparing for careers in the health professions. It will include an overview of organ systems, basic chemical organization, cell structure and function, and tissues; followed by the study of the skeletal, muscular, and nervous systems.

Corequisite: Health Science Professions 2101.

2302/BIOL 2302 Human Anatomy and Physiology II (3-0-0). This course is a continuation of HSP 2301 and expands a comprehensive study of the anatomy and physiology of the human body with an emphasis on health and medical issues. Lecture topics include special senses, the endocrine system, cardiovascular and respiratory physiology, immunity, digestion, nutrition and metabolism, the urinary system, and the male and female reproductive systems.

Prerequisite: Health Science Professions 2301/2101.
Corequisite: Health Science Professions 2102.

2305 Introduction to Health Science Professions (3-0). This course exposes students to the many careers in healthcare including their training requirements, job responsibilities, and work environments. Employment opportunities and trends, job prospects, and earnings for the different careers will also be discussed.

2320 Medical Terminology for Health Science Professionals (3-0). This course examines the principles of medical word building to help future health science professionals develop an extensive medical vocabulary through a study of root words, prefixes, and suffixes. Correct pronunciation and spelling of medical terms will be addressed.

2325 Basic Skills for Healthcare Professionals (3-0). Introduces students to the basic skills necessary to be successful in entry-level healthcare positions. These skills include Basic Life Support, safe patient handling, vital signs, and basic diagnostic and treatment techniques used by healthcare professionals including basic medical terminology and appropriate professional behaviors.

2401/BIOL 2401 Human Anatomy and Physiology I (3-2-0). This course, which provides a comprehensive study of the anatomy and physiology of the human body with an emphasis on health and medical issues, is designed for students preparing for careers in the health professions. It will include an overview of organ systems, basic chemical organization, cell structure and function, and tissues; followed by the study of the skeletal, muscular, and nervous systems.

2402/BIOL 2402 Human Anatomy and Physiology II (3-2-0). This course is a continuation of HSP 2301/2101 and expands a comprehensive study of the anatomy and physiology of the human body with an emphasis on health and medical issues. Lecture topics include special senses, the endocrine system, cardiovascular and respiratory physiology, immunity, digestion, nutrition and metabolism, the urinary system, and the male and female reproductive systems.

Prerequisite: Health Science Professions 2301/2101.

3310 Healthcare Administration History, Culture, and Language (3-0-0). This course is an introduction to the historical and cultural development of modern healthcare administration in contemporary American society and compares it with other countries. Special attention is given to the fundamentals of health services delivery including critiques and use of professional behavior and language.

Health Science Professions (HSP) continued

3315 Health Information Systems (3-0-0). This course discusses what information is needed by whom, the process of designing health information flows, procurement of computer/telecommunication resources, assuring information security, and continuing management of information systems supporting healthcare delivery. The course provides an overview of various health information systems, with emphasis on case studies of systems utilized in areas such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed.

3320 Healthcare Human Resources and Employment Law (3-0-0). The course discusses human resources planning, staffing, job requirements, job descriptions, sources of labor supply, training and education programs, salary administration, employee communications, legal considerations, and union-management relations. This course examines the legal aspects of healthcare human resource management. Each of the major federal and state enactments impacting human resource management will be studied in depth.

Prerequisite: Management 3301.

3325 Quality Control Management in Healthcare (3-0-0). This course is an introduction of integrated delivery systems and their operations. It includes an examination of patient care management and the patient experience. A framework for understanding healthcare quality efforts is also an integral part of this course.

3330 Healthcare Strategic Management (3-0-0). This class integrates accounting, finance, marketing, MIS, and organizational behavior in the creation of sustainable competitive advantage. It focuses on analyzing, planning, negotiating, problem solving, and decision making for healthcare systems managers in a risk-based environment.

Prerequisite: Management 3301.

3335 Disaster and Emergency Preparedness Management (3-0-0). The Disaster Management and Emergency Preparedness (DMEP) course teaches planning and medical management methods applied to preparedness, emergency, and mass casualty disaster situations. Through lecture and interactive scenarios, health care providers learn incident command terminology, principles of disaster triage, injury patterns, and availability of assets for support. Major topics addressed include planning, triage, incident command, injury patterns and pathophysiology, and consideration for special populations. Students in the course will also complete a free 3 hour online training called the National Incident Management System (NIMS) that is produced by FEMA.

3340 Healthcare Reimbursement (3-0-0). This course explores some of the major issues facing the healthcare industry and the effect that public policy and business environment has on a healthcare organization. Emphasis is on supply and demand theory, reimbursement systems, managed care, charge-master management, Case-mix management, DRG prospective payment, insurance, Medicare, Medicaid, governmental regulations, accessibility, eligibility, budgeting, and planning. Students learn to use informational and research tools to make effective management decisions.

Prerequisite: Finance 3361.

3345 Professional Development: Applying Your HSP Degree (3-0). Students will explore a variety of career and educational opportunities that can be pursued after obtaining a degree in Health Science Professions. Topics addressed in the course include conducting a job search applying for graduate school and employment, resume writing, interviewing skills, and adapting skills learned in the degree to qualities sought by employers.

3351 Basic Grant Writing (3-0-0). Developing effective grant writing skills are essential when competing for funds from government agencies and private foundations. This course provides the basic skills, principles, and techniques of successful grant writing to develop a competitive funding proposal for non-profit organizations. Government grants are mentioned at a very high level, but this course does not cover the writing and submission of Government grants.

3405 Physical Examination and Management of Musculoskeletal Injuries I (3-3). Health Science Professions students learn the process of clinical examination and management of common musculoskeletal injuries to the lower extremity and lumbar spine.

Prerequisites: Health Science Professions Major or Minor, Biology 2323/2123 or Health Science Professions 2301/2101.

3410 Physical Examination and Management of Musculoskeletal Injuries II (3-3). Health Science Professions students learn the process of clinical examination and management of common musculoskeletal injuries to the upper extremity, cervical and thoracic spine.

Prerequisites: Health Science Professions Major or Minor, Biology 2323/2123 or Health Science Professions 2301/2101.

3415 Therapeutic Interventions for Musculoskeletal Injuries (3-3). This course instructs HSP students on the theory and practical application of therapeutic modalities and exercise for musculoskeletal injuries.

Prerequisites: Health Science Professions Major or Minor, Biology 2323/2123 or Health Science Professions 2301/2101.

3420 Clinical Pathology for Health Professionals (3-2-0). This course provides information on the prevention and management of systematic disorders, skin diseases, environmental disorders, and other ailments related to the human body.

Prerequisites: Health Science Professions 2301/2101 and 2302/2102 or Biology 2323/2123 and 2324/2124, Health Science Professions 2325.

4145 Instructional Experience in Health Science Professions (0-0-3). The course gives students the opportunity to gain supervised instructional experience by assisting and modeling for practical exams, and explaining and demonstrating skills to underclassmen. It provides HSP juniors and seniors with an opportunity to review the course materials and enhances student learning by providing mentor/mentee experiences. Permission from the Department of Health Science Professions required. (May be repeated up to three times for credit.)

4171 Internship in Health Science Professions. Students participate in a structured work experience in healthcare. A pass or fail grade will be given by the instructor based on input on the student performance from the on-site supervisor and using required weekly journals prepared by the students. Course maybe repeated once for credit with permission of the instructor or department chair.

Health Science Professions (HSP) continued

4191, 4291, 4391 Research. Individual research problems for superior students majoring in Health Science Professions. (May be repeated to a total of six semester hours credit.)

Prerequisites: Junior standing. Approval of the HSP program director is required prior to enrollment.

4315 Human Nutrition and Dietary Supplementation (3-0). This course provides an understanding of basic nutrition science. Students will learn the biological functions and food sources of each nutrient, the role of nutrition in diet planning and weight management, and the relationship between nutrition, health promotion and chronic disease prevention.

4320 Communication Skills for Healthcare Professionals (3-0). Designed to teach students interested in the health professions to communicate effectively with their patients, colleagues, and other professionals. The course covers interpersonal communication with patients and their families, as well as public speaking and presentations, and communicating as a leader.

4325 Introduction to Epidemiology (3-0). This course introduces students to basic epidemiologic concepts including determinants of health and patterns of disease in populations, descriptive techniques of population health, use of health indicators and different types of data sources. Students will gain an understanding of the role of epidemiology in developing prevention strategies and policy.

4330 Healthcare Organization and Leadership (3-0). Describes the critical knowledge and skills needed to be effective leaders in today's complex healthcare environment. The course examines conflict resolution, leadership and negotiation skills, strategic planning, selecting and developing individuals and teams, communicating, managing resources, and using technology.

4331 Public Health (3-0). This course provides an introduction to the field of public health including its history, values, ethics, mission, and goals. Students will gain knowledge on the function, organization, financing, policies, and practices of public health in today's world.

4333 Demography and Community Planning (3-0). This course investigates the effects of illness and health on the community. Students will examine the current demographic information of local communities as it relates to community planning and public health.

4334 Community Assessment (3-0). The community assessment course introduces students to the concepts and methods of community health improvement and the role of assessment. This course helps students lead and participate in community health improvement activities and develop skills to assess community health status and available resources.

4335 Healthcare Ethics and Legal Issues (3-0). This course critically examines the central ethical issues in the healthcare field and the associated implications for health professionals. Students will gain an understanding of principles of liability, legal aspects of medical ethics, and legislative and regulatory factors in health care delivery.

4336 Global Health (3-0). This course examines major global health challenges, programs, and policies. Students will be introduced to the world's vast determinants of health and disease. Major global initiatives for disease prevention and health promotion will be investigated. The course also analyzes current and emerging global health priorities, including poverty, infectious diseases, health inequalities and conflicts.

4337 Statistical Techniques for Health Science Professionals (3-0). A practical application of health-related statistical analysis providing students with the knowledge and skills needed to read, interpret, and evaluate quantitative findings in medical and allied health literature.

4338 Biostatistics (3-0-0). Biostatistics is essential to ensuring that findings and practices in public health and biomedicine are supported by reliable evidence. This course covers the basic tools for the collection, analysis, and presentation of data in all areas of public health. Central to these skills is assessing the impact of chance and variability on the interpretation of research findings and subsequent recommendations for public health practice and policy. Topics covered include: general principles of study design; hypothesis testing; review of methods for comparison of discrete and continuous data including ANOVA, t-test, correlation, and regression.

Prerequisite: Health Science Professions 4337 or Mathematics 3321.

4339 Data Analysis and Management (3-0-0). This course helps students learn statistical skills through exploring SPSS and its different options. Students develop practical skills of managing and analyzing data sets to accurately decide what statistical tests are appropriate with a particular kind of research objective. The students also learn how to write the obtained output from SPSS in APA format.

Prerequisite: Health Science Professions 4337.

4340 Healthcare Policy (3-0). This course provides students with an introduction to the U.S. healthcare system, both the public and private sector. The course will examine the structure of health system (at the federal, state and local levels), current topics in healthcare reform, the policy process, and advocacy methods for public health issues.

4341 Mental Health: A Public Health Perspective (3-0-0). Introduces the public health perspective regarding mental health service delivery, at-risk populations and treatment settings. The basic principles regarding prevention and early intervention with mental health and substance use disorders will be studies along with perspectives on public health prevention and intervention methods at multiple levels.

Prerequisite: Health Science Professions 4331.

4343 Environmental Health (3-0-0). Examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.

Health Science Professions (HSP) continued

4345 Healthcare for Diverse Populations (3-0). The course reviews the importance of the implementation of cultural competency by allied health professionals, and the process of assessment, training and evaluation. The course provides students with key cultural competency information and practical insight into how to apply this knowledge in their day-to-day work environments as they deal with patients.

4347 Health Behaviors (3-0-0). Health Behaviors is an overview of the health behaviors contributing most dramatically to increased morbidity and mortality in the United States. The course emphasizes theoretical foundations, design, implementation and evaluation of public health interventions and strategies to promote healthy behaviors and discourage unhealthy behaviors.

4350 Healthcare Research and Evidence Based Practice (3-0). This course introduces students to the research process. Integrating theory, research design and evidence based practice, students will learn the various methodologies and techniques commonly used in healthcare research.

Prerequisite: Health Science Professions 4337 or Mathematics 3321.

4381 Special Topics (3-0). Selected topics in health science professions. (May be repeated once for credit when topic varies.)

Prerequisite: Junior standing.

History (HIST)

1191 First Year Research in History I. (Independent.) Independent research at an introductory level in History with a History faculty mentor.

Prerequisites: Student must be in the freshman research program and have permission of the department.

1301/HIST 1301 History of the United States to 1865 (3-0). A general survey of American development through the period of the Civil War.

1302/HIST 1302 History of the United States, 1865 to Present (3-0). A survey of American development from Reconstruction to the present, with emphasis on America in world affairs.

1391 First Year Research in History II. (Independent.) Independent research at an introductory level in History with a History faculty mentor.

Prerequisites: History 1191. Student must be in the freshman research program and have permission from the department.

Satisfactory completion of History 1301 and 1302 or equivalent American history credit is prerequisite to advanced history courses (3000- and 4000- level courses).

2311/HIST 2311 Western Civilization I (3-0). Western civilization to 1500. A study of the antecedents of modern institutions, including the political history of the period, and the human condition across cultures.

2312/HIST 2312 Western Civilization II (3-0). Western civilization from 1500 to the present, with emphasis on the background of present-day political, economic, and social issues, and the human condition across cultures.

2321/HIST 2321 World Civilizations I (3-0). A survey of the social, political, economic, cultural, religious, and intellectual history of the world to 1500. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania, their global interactions over time, and the human condition across cultures. Themes include the development of human civilizations, rise of important world religions, and the formation of empires in Asia, Africa, the Americas, and the Middle East.

2322/HIST 2322 World Civilizations II (3-0). A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania, their global interactions over time, and the human condition across cultures. Themes include maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange.

2372 Historiography and Methods (3-0). This course will introduce students to the concept of historiography and to basic historical research, writing, and analytical skills.

3301 History of Texas (3-0). Texas from the earliest Native American inhabitants to the present. Topics covered include the war for independence, Reconstruction, recent political and social movements and the contributions of minority groups and women to the development and modernization of the state.

3302 Colonial America to 1763 (3-0). This course begins with a brief study of the Atlantic World before 1492, examines key moments in European exploration and colonization, and then critically evaluates the creation, growth, and transformation of the mainland English colonies from their formal beginnings in 1607 through the French and Indian War. Key topics include: the Columbian Exchange, the Crisis of 1675, Bacon's Rebellion, the Salem Crisis, the Glorious Revolution, and the imperial wars as well as thematic topics such as expansion, slavery, and economic development.

3303 Revolutionary America 1763-1840 (3-0). This course begins in the aftermath of the French and Indian War, examines the American Revolution and the Constitutional debates in detail, and then studies the Early National Period up to the election of 1840. Key topics include: the social, economic, and political causes of the Revolutionary War; governance under the Articles and the Constitution; the War of 1812 and ideas of nationalism; and the presidencies of men such as Washington, Jefferson, and Jackson.

3307 America in the Gilded Age and Progressive Era (3-0). An examination of America in the late nineteenth and early twentieth centuries. Topics include, but are not limited to, urbanization, industrialization, immigration, Populism, imperialism, reform, and the ways America reflected and shaped global developments. The course will also discuss how discrimination came to affect various non-white groups and the ways such groups fought against racial injustices.

History (HIST) continued

3308 U.S. Urban History (3-0). U.S. Urban History will examine the influence of cities, suburbs, and exurbs on American economics, politics, and society from 1600 to the present.

3310 U.S. Constitutional History (3-0). Everything has a history, and that includes the U.S. Constitution. This class focuses on the development of the Constitution, the critical ideologies and court decisions that shaped the Constitution up to our time, and how those ideologies and decisions were conditioned by their historical moments.

3311 African American History (3-0). This course will cover the history of African Americans in the United States. Areas of focus may include: African influences in the Americas; formation of race in the United States; slavery and emancipation; social movements and civil rights; education and the economy; popular culture, literature, music, and art; politics and the formation of organizations.

3335 Renaissance and Reformation (3-0). Major developments in Europe from about 1450 to 1648, focusing on the humanist Renaissance, and Protestant Reformation, the Catholic reform movement, and the conflict of Protestants and Catholics through the Thirty Years War of 1618-1648.

3336 Absolutism and Enlightenment: Europe, 1648-1788 (3-0). Major themes are political conflict in England, absolute monarch in France under Louis XIV, the Scientific Revolution, conflict for world empire between France and Britain, and the revolutionary thought of the Enlightenment.

3337 Ancient World (3-0). This class will give students a detailed overview of the ancient world. The course will explore topics as diverse as the emergence of cities, trade and travel, religion, government and empire, and the everyday experiences of ancient peoples.

3342 The American Civil War (3-0). An examination of the causes and course of the American Civil War which places that pivotal conflict in the context of the nation's development during the nineteenth century. Topics include, but are not limited to, life in the Old South, development of an industrial North, slavery, abolitionist movement, and political and military strategy.

3343 U.S. Reconstruction (3-0). An examination of Reconstruction in the United States, from the origins of Lincoln's Reconstruction plan in the midst of the Civil War through the Compromise of 1877, that places the era in the context of regional, national, and global developments during the nineteenth century. Topics include, but are not limited to, notions of race, gender, and citizenship, industrialization, foreign policy, and the ways the American West was incorporated into the U.S. along with the former Confederacy.

3344 American Environmental History (3-0). This course explores the political, social, intellectual, cultural, and material interactions between humans and the natural world, the ways in which those interactions have changed over time, and the fluid constructions of the word "nature." Put another way, this class studies large-scale dams and natural disasters, western expansion and southern agrarianism, salmon cannons and super highways, resource development and grassroots activism, and it grounds those stories in an ongoing discussion about our place in the natural world.

3347 Antebellum America (3-0). An examination of the United States from the 1830's to 1860 that places the era in the context of regional, national, and global developments during the nineteenth century. Topics include: gender, immigration, urbanization, industrialization, Native American removal and resistance, Texas immigration and annexation, the plantation system, reform movements, abolition, and women's rights.

3348 American Civil Rights Movements (3-0). This course will discuss the history of movements for civil rights in the United States. Possible topics of discussion may include: the Black Freedom Movement, Chicana/o Movement, Women's Rights, Voting Rights, Marriage Equality and LGBTQ+ rights, Native American movements, Asian American movements, labor reform, religion and its role in reform movements, national policy changes, and regional differences.

3350 American Immigration (3-0). Analyzes the history of immigration in the United States from a variety of perspectives, time periods, and topics, including but not limited to: labor, policy, language and culture, geography, family dynamics, politics and activism, religion, race and ethnicity, gender and sexuality, and movements for reform.

3355 Latin America to 1800 (3-0). A survey of Latin American History from the 15th Century to 1800. Topics include the influence of Spain and Portugal, Indian heritage, and colonial history, with a particular emphasis on political, social, and cultural developments.

3356 Latin America Since 1800 (3-0). A survey of Latin American History since 1800. Topics include the development of Latin American Republics and revolutionary movements, with particular emphasis on political, social and cultural developments.

3362 Mexican American History (3-0). The history of people of Mexican descent in the United States, including their contributions to and importance in American society and culture, politics, the economy, and the military. Topics may include: contributions to popular culture, service in the global conflicts, struggles for equality, regional differences, coalition building and the impact on larger politics, immigration and migration, and struggles for labor reform.

3371 Asia in the Age of Imperialism (3-0). A study of Asia in the age of European, Japanese, and American colonialism, focusing on economic, political, and diplomatic relations. The course will span early European voyages to Asia to high imperialism to independence movements and World War II.

3372 Modern China (3-0). A survey of modern China from 1644 to the present. The course will explore the changes in the relationship between state and society from the founding of the Qing dynasty to the People's Republic of China (PRC). Themes will include imperialism, nationalism, ethnicity, gender, and revolution.

3373 The Vietnam Wars (3-0). This course explores the interrelated wars in Vietnam and the surrounding region between 1940 and the present. The course takes an international approach, combining local and national perspectives with a focus on the U.S. and Vietnam, but attention paid to the experiences and roles of the French, Cambodians, Laotians, Soviets, and Chinese. The course brings together military, social, cultural, political, and diplomatic history to explore complex dynamics of recent wars in the region.

History (HIST) continued

3374 The Silk Roads (3-0). An introduction to Asian history from earliest times to 1600, examining civilizations and cultural exchanges. This course will place Eurasian trade routes in context. Topics will include commerce; the spread of the world religions Hinduism, Buddhism, and Islam; the influence of Confucian thought in East Asia; and the Mongol Empire.

3375 Women in Asian History (3-0). premodern and modern eras. Students will be introduced to the region and the approaches of women's history and gender history. Topics will include the intersection of gender, religion, Confucianism, and other belief systems. The course will also consider the impact of imperialism and modernization efforts on gender roles. Students will explore the daily experiences of women and ideas related to marriage practices, the family and household, education, and the economic sphere.

3379 U.S. Military History (3-0). Explores the evolution and history of the American military, from colonial militias to the 21st century. The course covers the technological, political , cultural, social, and diplomatic aspects of U.S. military history, from individual combat experiences to grand strategy.

4302 The American West (3-0). A cultural history of America's frontier experience, with special emphasis on the Trans-Mississippi West in the nineteenth century.

4313 U.S. – Mexico Borderlands (3-0). This course will examine the historical interaction of the U.S. and Mexico at the Border, focusing on cultural exchange, economic relations, politics of immigration and labor, as well tensions and accommodations.

4314 Public History (3-0). This course will provide students with training in the field of public history with attention paid to historic preservation, archival research and preservation, museum studies, and related fields. Students will receive preparation for employment in fields such as tourism, marketing, archives, museums, state and national parks, and research for corporations and non-profits.

4323 History of U.S. Foreign Relations (3-0). An examination of key events in U.S. diplomatic history as well as significant trends from colonial-revolutionary times to the present.

4324 Sports in American History (3-0). The role of sports in American history, including the economic, big business, social, cultural, racial, gender, ethnic and higher education aspects of sports in American history.

4325 American Indian History (3-0). A general survey of the prehistory, culture, and historical experience of American Indians living north of Mexico.

4330 The Middle Ages (3-0). This class will explore Europe, the Mediterranean, and the Middle East between c. 400 and c. 1500. It will introduce students to the complex, interconnected worlds of the Middle Ages, focusing on themes such as cultural and socio-political developments and the movement of people, objects, and ideas.

4333 Modern Europe (3-0). Examines the unification of Germany and Italy, European imperial and colonial rivalries, the Second Industrial Revolution, class and gender dynamics, and the emergence of modern society. This course will also provide the social and political context of World War I.

4335 Revolutionary Europe (3-0). Studies the evolution and impact of the French Revolution, including the emergence of such ideologies of nationalism, communism, liberalism, and Romanticism. This course will also examine the Industrial Revolution, urbanization, and class and gender dynamics.

4340 Globalization Since 1945 (3-0). An examination of global economics since World War II. Topics of study will include the dynamics of modernization, international trade, regional conflicts, and the evolution of an integrated global economy.

4342 Dictatorship and Democracy in the 20th Century (3-0). Examines European history from the outbreak of World War I through the fall of the Soviet Union and European integration. This course will analyze the ideological struggle between liberalism, fascism, socialism and communism on European politics, economics, and society in the twentieth century.

4351 Mexico Since Independence (3-0). Mexican national history from 1823 to the present, detailing the political, economic, and cultural trends since independence and emphasizing United States-Mexican relations.

4360 Latin American Slavery (3-0). Latin American Slavery examines the evolution of slavery in Latin America, offering a comparative framework to understand differences among countries colonized by the Portuguese and the Spanish. This course will look closely at the cultural interactions among Africans, Indians, and European colonizers to understand the basis of caste society in Latin America.

4361 Topics in Military History (3-0). A study of war in different historical epochs. The course will analyze combat and the evolution of military technique within the broad cultural context of political, economic, social, and intellectual factors. (May be repeated once for credit when topic varies.)

4370 Capstone: Historical Research and Methodology (3-0). The objective of this course is to provide a capstone experience to History majors. Students should have senior status in order to enroll in the class. Students must obtain permission to enroll in the class. Secondary Certification students must take the class the semester prior to their clinical teaching (student teaching) experience.

4371 Internship in History. The student will participate in work and on-the-job training at a historic site, museum, or other appropriate organization. A research paper dealing with the internship experience, written under the direction of a faculty member, will be required. The internship is limited to history majors. Registration allowed only after selection by the History Department made upon written application in the semester prior to placement. See department chair for details.

4381 Special Topics (3-0). A course dealing with selected topics in History. (May be repeated twice for credit when topic varies.)

4391 Research. A specialized course of directed reading or research for superior students majoring in history. Must have departmental approval to register.

Honors Curriculum (HONR)

2302 Great Works in the Arts (3-0). The course introduces students to the aesthetic, compositional, motivational, and cultural elements of the visual and performing arts. This course satisfies the core performing arts requirement for Honors students.

Prerequisite: English 1302

2305 Honors Seminar in the Humanities (3-0). A seminar-style course for first year Honors students. Students explore fundamental questions and issues in the humanities from a variety of perspectives, including the historical, cultural, philosophical, and scientific perspectives. Students outside the Honors Program may petition for inclusion with permission of the Honors Program Director and instructor.

3381 Honors Senior Seminar (3-0). Readings and research on selected topics taught from a multidisciplinary perspective. May be repeated once for credit when the topic varies.

Prerequisites: Junior or senior classification and good standing in the Honors Program.

4191, 4291, 4391 Honors Research. Individual research problems for Honors Program students. May be repeated to a total of six semester hours of credit. This course is open only to current Honors Program students.

Prerequisites: Six hours of honors courses. Student must be in good standing with the Honors Program and should be a junior or senior. Permission of instructor required.

4373 Internship. This course is intended to provide Honors Program students the opportunity to perform an internship with an organization through the Honors Program. Internships through the Honors Program typically satisfy one or more of the major goals within the Honors Program. This course is only open to current students in the Honors Program. May be repeated for a total of six hours of credit.

Prerequisites: Six hours of honors courses. Student must be in good standing with the Honors Program and should be a junior or senior.

4381 Honors Research Seminar (3-0). Research seminar for Honors Program students focused on designing, implementing, and presenting original projects suited to the individual student's discipline.

Prerequisites: Junior or senior classification.

4399 Honors Thesis. Faculty-directed independent research leading to the completion of the Honors Thesis project.

Prerequisites: Senior standing and permission of the Honors Program Director.

Intelligence and Analysis (INA)

3300 U.S. Intelligence and Global Security Challenges (3-0). This course's ultimate objective is to place the student in the role of a senior leader and have him/her face the global security challenges facing our decision makers. 9/11 and the global war on terror has placed the world in a position where friends and allies must work together to defeat terrorism at home and abroad. To be effective our national leaders must reach out and partner with foreign allies. Students will be placed in these roles to help determine and form national security policy. Students will assume the roles of the national security advisor, SECSTATE, Chairman of the Joint Chiefs of Staff (CJCS), and Director for the CIA and of DNI, among others, and will attempt to advise and influence head of a foreign nation, international organization, or internationally-active NGO, with the tasks of (1) explaining the role of the United States in the international system (from a non-US perspective), and (2) designing a national security strategy for your nation or organization that could either affect, neutralize, or capitalize on the hegemonic position of the U.S., (3) and form intelligence partnerships and sharing agreements.

3301 Context, Culture, and Intelligence: The International Dimension (3-0). The intelligence profession is particularly complex because it focuses by definition on foreign threats. Unfortunately for intelligence analysts, this requires that they understand not just other cultures and how their norms and values affect their approach to resolving policy issues or conflicts, but also how historical and other kinds of contextual factors influence how they might respond to American engagement and pressure in a given situation. This course gets at the heart of these complexities through the use of historical case studies and a careful focus on the ways in which context and culture drive the intelligence analysis process and make it a very complex and uncertain endeavor.

3302 Fundamentals of Intelligence Analysis (3-0). This course is designed for students with no experience with the intelligence discipline. It presents the organization and fundamentals of intelligence, defining the discipline, providing an overview of basic intelligence sources, and tracing the history of intelligence organization in the U.S. from the revolution through the modern day. This course introduces students who are interested in pursuing the profession of intelligence to the business of intelligence analysis. Students will develop a broad understanding of strategic intelligence and all phases of the intelligence cycle from requirements to reporting with an emphasis on supporting leadership decision making. It presents material describing the process of intelligence analysis; the role of the analyst; and analysis tools for preparation of assessments based on the collection, correlation, and analysis of intelligence data. The course concludes with a discussion of ethical dilemmas posed by the ongoing war on terrorism and resulting from modern high-tech collection capabilities.

3303 Critical Thinking and Intelligence Analytical Methods (3-0). Thinking critically, analyzing and synthesizing effectively, and solving difficult problems are crucial skills in the intelligence arena. Additionally, rapid changes in technology, information sourcing, and information availability, coupled with fundamental changes in the Intelligence Community and its customers' expectations, have had a significant impact on the intelligence process and the way in which analysis is conducted and disseminated. This course provides methodology and techniques in critical thinking and analysis skills meant to overcome cultural and self-imposed biases that can impact the objectivity of intelligence analysis and decision-making. Critical thinking and analysis skills are covered, to include analysis of competing hypotheses, matrix analyses, decision/event trees, weighted rankings, and utility analysis, which are designed to improve the objectivity of intelligence analysis and decision making. The course ends with a review of the National Intelligence Estimate (NIE) and analyst-policymaker relationships.

Intelligence and Analysis (INA) continued

3304 The Intelligence Process: Consumers-Producer Relationships (3-0). This course examines the policymaker and intelligence relationships and how they function to serve national security demands. Policymakers receive their support from a variety of sources. There is an established intelligence process designed to provide intelligence judgments and assessments. Students will learn how that process works and how it can be influenced. The CIA's Directorate of Intelligence (DI) and the National Intelligence Officers who comprise the National Intelligence Council are responsible for providing all-source intelligence analysis to the Government as a whole, with the President, the National Security Advisor, and the Secretaries of Defense and State being the foremost customers. Students will comprehend customers' intelligence requirements and how those requirements are serviced to contribute to national security needs. Students will also examine intelligence failures through case studies, evaluate why these failures occurred, and how such failures can be eliminated in the future.

3305 Intelligence Collection: Sources and Challenges (3-0). This course provides a multidisciplinary survey of Imagery Intelligence (IMINT), Signals Intelligence (SIGINT), Human Intelligence (HUMINT), and Measurement and Signature Intelligence (MASINT). The background, capabilities, and limitations of each intelligence collection method are covered. The course focuses on the intelligence process, specific intelligence challenges of the global war on terrorism and specific collection challenges facing planning activities which enable an integrated approach to intelligence analysis and collection.

3307 Introduction to Cybersecurity (3-0). This course introduces students to the wide range of modern communications technologies. Use of these technologies by government and business entities for intelligence gathering, their limitations, and vulnerabilities are introduced to students. An overview of the history of computer hacking is covered. Additionally, a brief overview of law and policy concerning cyber communications is discussed beginning with the National Security Act of 1947. (Credit may not be earned for this course and Border Security 3307.)

3310 Introduction to the Discipline of Intelligence (3-0). This course focuses on the theory and practice of the disciplines of intelligence to include the intelligence process, the key functions of the intelligence cycle, intelligence technology, analysis, collection capabilities, covert action, and policy support. Students will examine the role of intelligence in national security, policy formation, diplomacy, homeland security, and other national priorities. Students will do a comparative review of the Cold War intelligence community and post-9/11 period of the emergence of the current national Intelligence Community (IC). Students will examine partnerships between the IC and the military services, academic, and scientific communities in developing intelligence practices and Intelligence, Surveillance, and Reconnaissance (ISR) systems and capabilities to address the intelligence challenges of the past 60 years. Finally, the course emphasizes the importance of preparing and providing intelligence to both policy makers and our nation's warfighters in a manner that result in information sharing and underscores a post-9/11 commitment to conduct intelligence activities in a manner that fully respects and protects American civil liberties and privacy.

3315 Introduction to Cryptology (3-0). This course's ultimate objective is to introduce the student to the world of codes and ciphers. This course will rely on the long history of cryptology, from 1900 B.C.E. to present day. This course introduces to students several methods of both manual encryption and decryption and methods used today to ensure personal information is encrypted in both military and civilian applications.

3320 Intelligence and Democracy: Issues and Conflicts (3-0). This course examines the conduct of intelligence activities by democratic states, focusing on the inherent conflict between the secret nature of intelligence and "open society." Using a case study approach, students will review the intelligence organizations in the U.S. and other democracies as well as cases where there has been a clash between democratic values and intelligence activities. The course analyzes the requirements for effective intelligence operations and the impact of oversight and control of those operations. Students will examine Government "control" of intelligence operations; Judicial and Congressional oversight, management, and intervention; and the role and influence of media and public opinion on intelligence activities. Moreover, as a result of 9/11 and the war on terror, students will explore the conundrum of determining whether and to what degree a necessary balance exists between secrecy of intelligence operations at home and abroad and democracy.

3321 Cyber Vulnerability (3-0). This course covers both the reliability and vulnerability of computer-based technologies, biometrics and security technologies. The student learning objective is to understand the cybersecurity threats to our current infrastructure.

4071 Internship (1-6 SCH). This course is designed to familiarize students with the application of knowledge gained in course work and with operations and problems in the field of intelligence and analysis. Students must be pursuing a degree in Intelligence and Analysis. Approval of instructor is required.

4103 Case Studies in Intelligence and Analysis (1-0). This course is a seminar and takes a case study approach to highlighting challenges and lessons learned for successes and failures on intelligence policy, operations, organization, and reform. Topics covered include WWII, Korea, Cold War, Algeria, Vietnam, Cuba, Desert Storm I & II, Post 911, Iraq, Iran, Afghanistan, WMD Proliferation, Terrorism. Includes practical exercise. (Credit may not be earned for this course and Intelligence and Analysis 4303.)

4191, 4291, 4391 Research. Individual research problems for superior students majoring in intelligence and analysis. (May be repeated for a total of six semester hours credit.)

Prerequisites: Junior or Senior standing. Approval from the Chair of the Department is required prior to enrollment.

Intelligence and Analysis (INA) continued

4300 Advanced Problems in National Security and Intelligence Policy (3-0). This course provides a strategic overview of the complex challenges surrounding the creation, application, and administration of national security and intelligence policy. Students will examine the most compelling national security and intelligence issues of our time and their interrelationships with U.S., foreign, military, economic, diplomatic, and domestic policy. Students will learn the formal/informal structure of the national security establishment and the intelligence community and the processes involved in how policy makers and analysts integrate national security policy and intelligence to form national strategy. Students will examine the changing nature of external threats in a multi-polar world and identify U.S. defense and intelligence policy issues for the remainder of this century and into the next. The course gives students awareness of the U.S. position in the international military, diplomatic, economic, and intelligence community and the effects of the current U.S. and global economic situation on U.S. national security and how the roles and organizations within the Intelligence Community support the national security process.

4301 Advanced Intelligence Analysis: How to Think In Complex Operating Environments (3-0). This course focuses the analyst on how to think, not what to think, in order to foster critical thoughts and enhance the student's cognitive performance. It is modeled on the Socratic method of instruction and offers concepts on advanced thinking that are applicable to all work environments, but particularly to the intelligence analysis enterprise. Students discover how to decompose an analytical problem into its fundamental elements. The output of this process includes five principal kinds of observables for collection and analysis: technical, functional, cultural, situational, and biometric. Students also learn how to write effective requirements and observables. They further learn how to re-aggregate data into information and to synthesize information into knowledge, thereby creating actionable intelligence.

4302 Space Imagery and Security (3-0). This capstone course discusses the use of space-based assets to support Homeland Security and Intelligence efforts. Included are limitations of the technologies, available commercial technologies, and discussion of the legal, moral, and political issues surrounding the use of these technologies in a democratic society. Students will design and present a project as part of this course. (Credit may not be earned for this course and Border Security 4302).

4303 Capstone: Case Studies in Intelligence (3-0). Case Studies in WWII, Korea, Cold War, Algeria, Vietnam, Cuba, Desert Storm I & II, Post 911, Iraq, Iran, Afghanistan, WMD Proliferation, and Terrorism. Includes practical exercise. This course is a seminar and takes a case study approach to highlighting challenges and lessons learned for successes and failure on intelligence policy, operations, organization, and reform. Students must be in senior status and it is preferable to take this course in the final semester. (Credit may not be earned for this course and Intelligence and Analysis 4103.)

4304 Target Analysis (3-0). This course allows students hands-on passive applications of tracking an e-mail or attack to its potential source. Students trace hackers, spammers, and attackers, using open-source applications, websites., and other classes taught in Intelligence and Analysis and Border Security. Target Analysis demonstrates to the students; every e-mail has identifiable elements that can be used to trace an entity to its source while keeping the student's computers in a safe environment. The class will be divided into groups allowing students the hands-on experience they might encounter in a Fusion Center. The course culminates in a final Intelligence briefing on a specific target in an unclassified setting .

4305 Digital Footprints (3-0). A digital footprint is the data users leave behind on digital services. This course explores the inner workings of our digital world. Students will learn about the two main classifications of digital footprints: passive and active. The course covers terms related to internet technology and dynamics of the Internet while examining the mechanisms and tools used to breakdown user and server information. (Credit may not be earned for this course and Border Security 4303.

4314 Strategic Thought and Leadership (3-0). This course explores how leaders at the executive level of organizations think and influence the actions of others, both tactically and strategically. Students investigate examples of leadership, ethics, decision-making, and strategy along a spectrum of adversity. Historical case studies highlight commonalities and habits of mind that form the nexus between successful strategic thought and leadership.

4381 Special Topics (3-0). A course in selected intelligence topics. May be repeated once for credit when topics vary.

International Studies (ISTD)

3271 Internship. Students will participate in a structured work experience either on campus or with a non-profit sponsor. A pass or fail grade will be assigned by the instructor based on input on student performance from the supervisor, completion of a project and using the required weekly journals prepared by students. Course may be repeated once for credit with permission of the instructor or department head.

Prerequisite: Permission of the instructor.

3381 Special Topics In International Studies (3-0). These courses are designed for classes offered through the study abroad program and are often interdisciplinary in nature. (Course topics vary by program and each course may be repeated when the topic varies.)

Kinesiology (KIN)

1301/PHED 1301 Foundations of Kinesiology (3-0). Survey of the historical and philosophical foundations, scope, objectives, and future of kinesiology-related careers. In addition, scientific foundations, programs, professional considerations, and leadership requirements for employment within this profession will be emphasized.

1304/PHED 1304 Principles of Wellness (3-0). The study of the aspects that make up total wellness. Subject areas will include the health-related aspects of physical fitness, proper nutrition, heart disease, substance abuse, and the influence of mental, emotional, and psychological factors on these aspects.

2340 Marketable Skills for Careers (3-0). This course will allow students to apply soft skills, demonstrate marketable skills, and exhibit behaviors that improve academic performance necessary for college success and that may increase employment opportunities upon graduation.

Kinesiology (KIN) continued

2356/PHED 2356 Care and Prevention of Activity Related Injuries and Illnesses (3-0). A composite course of sports medicine/emergency healthcare/athletic training elements in regards to prevention and care of injuries and illnesses sustained by a physically active population.

2372 Anatomical Kinesiology (3-0). Study of the anatomical and neuromuscular contributions to human movement. Emphasis on the factors and functions of the musculoskeletal system.

3170 Exercise Physiology Lab (0-2). The course will add an optional lab component to Kinesiology 3370.

Prerequisites: Biology 2323/2123, 2324/2124 or Health Science Professions 2301/2101, 2302/2102.

3300 Outdoor Fitness and Wellness (3-0). Discussion and practice of outdoor activities, including backpacking, hiking, fishing, kayaking, shooting, hunting, climbing, first aid, and environmental issues. Course will focus on trip planning from a backpacking perspective with the understanding that backpacking techniques will be used for all outdoor adventures. The primary focus of the course is the idea that fitness achieved through outdoor activities is an important component of health and wellness.

3301 Youth Development in Context (3-0). This course provides an overview of youth development principles utilizing an ecological framework (Brofenbrennar's nested doll theory). As this time period is extremely formative for the lives of youth, major theories and concepts from various fields will be examined through the lens of Kinesiology. Special attention will be placed on the application of these principles with a sensitivity to context.

3321 Essentials of Coaching (3-0). A study of the concepts and competencies essential to coaching children and adolescents in the various sport settings. Topics such as coaching theory, coaching philosophies, the coach-athlete relationships, the coach-parent relationships, designing practice/training schedules, and administrative duties will be emphasized.

3333 Motor Development (3-0). A study of psychomotor development. The focus is on the growth years, though developmental considerations for all age groups are considered. Implications for sport, exercise, and physical activity will be discussed.

Prerequisite: Kinesiology 1301 or 1304, or consent of instructor.

3345 Assessment of the Lower Extremity (3-0). The study of clinical assessment specifically related to the lower extremity (i.e. toes, foot, ankle, lower leg, knee, pelvis, and thigh).

Prerequisite: Junior standing or consent of instructor.

3346 Assessment of the Upper Extremity (3-0). The study of clinical assessment specifically related to the upper extremity, head, cervical spine, and thorax.

Prerequisite: Junior standing or consent of instructor.

3351 Measurement and Evaluation in Exercise and Sport (3-0). Measurement assessment and evaluation techniques in physical fitness and performance for basic motor and sport skills. Practical experiences will be provided in test administration, scoring, and interpretation of results.

Prerequisite: Kinesiology 1301 or 1304, or consent of instructor.

3352 Motor Skill Acquisition (3-0). Designed to provide students with an opportunity to acquire and demonstrate proficiency in a variety of basic motor skills in selected team and individual activities.

3362 Sport and Exercise Psychology (3-0). The purpose of this course is to introduce the student to the fields of sport and exercise psychology. An emphasis will be placed on the application of psychological theories and training techniques specifically to coaching athletes. The expanding field of exercise psychology will also be studied with emphasis on the psychological effects of sustained exercise on health well-being.

3370 Physiology of Exercise (3-0). Physiological responses of the system of the human body to acute and chronic exercise. Emphasis is on the processes and mechanisms for such responses.

Prerequisites: Biology 2323/2123, 2324/2124, or Health Science Professions 2301/2101, 2302/2102, or consent of instructor.

3372 Biomechanics (3-0). Principles of human movement emphasizing an understanding of the relationship of structure and movement with respect to anatomy and mechanical analysis.

Prerequisite: Biology 2323/2123 or Health Science Professions 2301/2101 or Kinesiology 2372.

3380 Sport and Exercise Nutrition (3-0). The metabolism of food by various systems of the body and its relation to exercise. The role of diet along with the application of nutritional principles to enhance human performance.

4091 Research: 1 to 6. Individual research problems for superior students majoring in kinesiology. 3.00 GPA and department chair approval required. May be repeated for a total of six semester hours credit.

4301 Sport and Recreation Management (3-0). Designed to provide an overview of the organization, administration, and management of sport and recreation programs. Emphasis on leadership, critical thinking and problem solving skills, and creativity processes related to success in the multidimensional, multidiscipline fields of sport and recreation. Areas covered include: program development and implementation, marketing and promotions, staff development and management, and strategic planning.

Prerequisite: Management 3301 or 3304, or Marketing 3321 or 3324, or consent of the instructor.

4302 Sport and Recreation Leadership and Ethics (3-0). The purpose of this course is to introduce the student to leadership and ethics in sport. An emphasis will be placed on the application of leadership theories and ethical dilemmas. In doing so the student will gain a holistic understanding of leadership and ethics in sport.

Prerequisite: Kinesiology 3321 or consent of instructor.

4330 Management Strategies and General Medical Concerns in Athletic Training (3-0). This course will introduce and describe basic management strategies and general medical issues in the field of athletic training.

Kinesiology (KIN) continued

4331 Sport and Recreation Law (3-0). A course that focuses on the legal elements and responsibilities found in sports and the entire realm of physical activities. The legal environment, legal duties and responsibilities, risk management, and participant rights will be addressed. Emphasis will be placed on developing proficiency in recognizing and solving problems and issues in sports and physical activities.

Prerequisite: Kinesiology 3321 or consent of instructor.

4343 Adapted Physical Activities (3-0). A survey of various disabling conditions: physical, mental, and emotional, and the implications that these disabilities impose on physical activities, fitness, and sport. A field experience is required.

Prerequisite: Kinesiology 3333 or consent of instructor.

4345 Therapeutic Modalities (3-0). The study of theories, applications, and methods of various modalities consisting of cryotherapy, electrotherapy, and thermotherapy in addition to principles of traction, intermittent compression, and massage.

Prerequisite: Junior standing or consent of instructor.

4346 Therapeutic Exercise (3-0). The study of a comprehensive rehabilitation/reconditioning program involving techniques of flexibility, muscular strength, muscular endurance, and cardiorespiratory training involving anaerobic and aerobic principles.

Prerequisite: Junior standing or consent of instructor.

4352 Statistics and Assessment in Human Performance (3-0). Overview of statistical concepts and methods including descriptive statistics, correlation, regression, t-tests, chi square, ANOVA, and validity/reliability. These statistical competencies are applied to the assessment of human performance including physical activity and fitness, sport skills, and motor abilities.

Prerequisite: Mathematics 1314, 2312, or 2413.

4356 Methods of Teaching Physical Activities (3-0). Development of competencies for delivering instruction in community, school and other physical activity settings.

Prerequisite: Kinesiology 3352 or consent of instructor.

4363 Motor Learning and Control (3-0). Learning in the psychomotor domain; motor learning and control theories, psychological and physiological basis of skill behavior, motor and skill learning, state of performer and application of instructional techniques in motor learning and skill performance.

Prerequisite: Kinesiology 3333 or consent of instructor.

4373 Internship. Supervised internship with selected wellness and recreational organizations. Recommended for students not seeking teacher certification.

Prerequisites: Senior standing, minimum GPA of 3.00, and approval by department. Apply by March 1 for the following fall semester and by November 1 for the following spring semester.

4381 Special Topics (3-0). Selected topics in kinesiology. (May be repeated once for credit when topic varies.)

4382 Exercise Testing (3-0). Introduction to a variety of laboratory and field tests utilized in the evaluation of functional work capacity in specific areas of human performance. Emphasis is given to the application of the following: 1) benefits and risks associated with exercise testing, 2) health screening and risk stratification, 3) physical fitness testing and interpretation, 4) exercise testing for children, the elderly, and pregnant women, and 5) legal issues.

Prerequisite: Kinesiology 3370 or consent of instructor.

4383 Exercise Prescription (3-0). Introduction to basic theory and application relative to exercise prescription for healthy individuals and individuals with specific clinically diagnosed diseases. Emphasis is given to an application of the following: 1) benefits and risks associated with exercise, 2) health screening and risk stratification, 3) general principles of exercise prescription, 4) exercise prescription for diseased individuals, 5) exercise prescription for children, the elderly, and pregnant women, 6) methods for changing exercise behavior.

Prerequisites: Kinesiology 3370 and 3372 or consent of instructor.

4390 Theory of Strength and Conditioning (3-0). A course designed to provide students with the knowledge and skills to design and implement safe and effective strength and conditioning programs with a focus on sports performance.

Prerequisites: Kinesiology 3370 and 3372, or consent of instructor.

4399 Kinesiology Capstone (3-0). This course is the culminating experience in which students will apply their knowledge and skills acquired across the curriculum. Students will perform 60 hours of supervised field-based experience in an approved kinesiology-related field. In addition, students will participate in weekly on-campus seminars on job-related topics, employment procurement strategies, and other professional development activities.

Prerequisite: Senior standing or consent of instructor.

Latin (LATI)

Dual Credit: Off-Site Courses

LATI 1411/LATI 1411 Beginning Latin I (4-0). Grammar and vocabulary. Emphasis on the value of Latin as a background for the study of English and modern foreign languages.

LATI 1412/LATI 1412 Beginning Latin II (4-0). Grammar and vocabulary. Emphasis on the value of Latin as a background for the study of English and modern foreign languages.

Prerequisite: Latin 1411.

LATI 2311/LATI 2311 Intermediate Latin I (3-0). Review of grammar and readings in Roman literary works.

Prerequisite: Latin 1412.

LATI 2312/LATI 2312 Intermediate Latin II (3-0). Review of grammar and readings in Roman literary works.

Prerequisite: Latin 2311.

Linguistics (LING)

4323 Methods of Teaching Foreign/Second Language (3-0). Study and application of perspectives, theories, pedagogies, and methods of language teaching and learning. (Credit may not be earned for this course and English 4323.)

Prerequisites: English/Linguistics 2340 or English/Linguistics 3320 and English/Linguistics 4340.

Management (MGMT)

2331 Applied Business Statistics (3-0). Introduction to statistical analysis including such topics as: descriptive statistics, probability distributions, sampling, statistical inference, and correlation and regression analysis.

Prerequisites: Business Computer Information Systems 1305 or Animal Science 1309 and Mathematics 1314 or 1324 or 1342.

3301 Principles of Management (3-0). An introduction to the management of organizations, the impact of managerial action on organizational stakeholders, and the role of organizations in society. Emphasis will be on the five functions of management: planning, organizing, staffing, leading, and controlling.

3303 Human Resource Management (3-0). Techniques and procedures of general personnel management; employer-employee relationships; recruitment, selection, placement, and training of employees; job analysis; wage plans and policies; transfer and promotion; employee health and safety; and employment services and fringe benefits.

Prerequisite: Junior standing.

3304 Organization Behavior (3-0). An experiential and theoretical approach to human behavior in an organizational setting, by analysis of individual, group, and organizational processes, with a goal of understanding, predicting, and improving the performance of organizational elements.

Prerequisite: Junior standing.

3305 Production and Operations Management (3-0). Operations Management is concerned with management of resources and activities that produce and deliver goods and services to customers. This course will focus on the basic concepts, issues, and techniques for efficient and effective management of operations. Topics include operations strategy, product and service design, capacity planning, location planning, demand forecasting, aggregate planning, master scheduling, material requirements planning, enterprise resource planning, quality management, inventory management and supply chain management.

Prerequisite: Management 2331.

3308 Negotiation (3-0). An introduction to a variety of negotiation tactics and how to use such tactics to become a more successful negotiator. This course also covers how to recognize and respond to negotiation tactics when they are used against you. Related concepts such as persuasion may also be covered.

3309 Entrepreneurship (3-0). A course designed to provide students with an understanding of the entrepreneurial process. To include models for creating a business; developing and using business, financing and marketing plans; and managing the new venture during early operation and expansion. Business plan software will be utilized to prepare a business plan for a new expanding business. (Formerly Management 4309.)

Prerequisite: Junior standing.

3311 International Business (3-0). This course will survey international business frameworks, trade and investment theories and institutions, multinational corporations, strategy, functional management, operations and concerns.

Prerequisite: Junior standing.

3312 International Management (3-0). This course is designed to develop the knowledge and skills needed to manage effectively in different cultures to ensure sustained competitive advantage.

Prerequisite: Junior standing.

3313 Current Issues in Management (3-0). A study of selected current problems which affect and are affected by management in American business. Problems will include change in worker values, relations with governmental jurisdictions, efficiency, quality, and international competitiveness.

Prerequisite: Junior standing.

3332 Data Analytics (3-0). An introduction and overview of information resources commonly used in business including secondary and syndicated data resources. The focus of the course is enabling students to identify, locate, analyze, and report on business data sources both qualitatively and quantitatively.

Prerequisite: Management 2331 or Mathematics 3321.

3343 Management Information Systems (3-0). A foundation in the theory and practical application of Management Information Systems (MIS) in the development of business solutions. Use of information systems in supporting business processes, goals, and overall organizational strategy.

Prerequisite: Junior standing.

3351 Advanced Business Analytics (3-0). This course builds on the basic data analytics course by including advanced topics in descriptive, predictive, and prescriptive analytics. Methods include using advanced data cutting and visualization, multiple regression, logistic regression, data mining, cluster analysis, and optimization. Applications extend to all areas of business including marketing, operations, and finance.

Prerequisite: Management 3332.

3352 Innovation in Emerging Technologies (3-0). An examination of technical and managerial issues related to innovation and disruptive technologies. A focus on the role of entrepreneurship, technology, competition, and strategy from start-ups to global organizations.

Prerequisite: Management 3343.

3361 Project Management (3-0). An introduction to the project management process with a focus on both the common body of knowledge associated with project management as well as the science and art of managing projects. This course introduces project management tools and techniques including the use of Network Diagrams, Work Breakdown Structures, Gantt charts, and current project management software.

Prerequisite: Junior standing.

3381 International Study Abroad in Business (3-0). This course is designed for classes offered through the study abroad program. Course topics vary by program. (This course may be repeated for up to 6 hours to meet major requirements.)

Management (MGMT) continued

3393 Web Systems Development (3-0). The course covers hypertext markup language and other Web-centered software. Students will learn how to plan, design, create and maintain Web sites using hypertext markup code and other scripting languages.

Prerequisite: Junior standing.

4091 Research: 1 to 6. A specialized course providing research opportunities for superior students. Grading will be either pass or fail.

Prerequisite: Permission of the instructor.

4301 Practicum in Management Information Systems. Instruction providing detailed education, training, and work-based experience in the design and administration of management information systems, generally at a work or organizational site. The practicum is an unpaid learning experience involving actual information systems under the supervision of a faculty member. Student teams will evaluate the design and implementation of a significant information system or will develop such a system where none exists. Project management, management of the information systems function, and systems integration will be components of the project experience.

Prerequisite: Permission of the Department.

4302 Ethics in Organizations (3-0). A course designed to: assist the student in the recognition of unresolved ethical issues likely to confront decision makers in business and other organizations; help the student become aware of some of the complexities involved in the application of moral reasoning to organizational decisions; and encourage the student to search for structural changes in business and other organizations in order to benefit society. This is a seminar and case study course, and substantial oral and written communication ability is required. The student would benefit if Philosophy 2306 were first completed.

Prerequisite: Junior standing.

4303 Strategic Management (3-0). A senior business capstone course concerned with the study and development of strategy for the overall organization. The course is interdisciplinary in nature, requiring students to apply knowledge and skills learned in previous courses to solve problems of an organization operating in its social, political, legal, ethical, international, and economic environment. As part of course requirements, students will be required to submit a portfolio which provides evidence over their ASU career that the student has developed competencies, beyond subject matter knowledge, in areas such as leadership, communications, decision-making, and creativity. Students will also be required to take an examination covering the common body of knowledge of the B.B.A. degree.

Prerequisites: Communication 3352, Finance 3361, Management 3301 and 3305, Marketing 3321, Graduating semester, and permission of the Department.

4305 Organization Theory (3-0). Study of the antecedents and consequences of organization design and structure. This course will focus on structure, technology, environmental adaptation and managerial control systems of organizations operating within rapidly changing, global environments. An introduction to strategic analysis, planning, and decision-making.

Prerequisite: Junior standing.

4306 Applied Leadership (3-0). This course is designed to place students in real situations where they may practice leadership while studying and applying management theories involving leadership, motivation, group dynamics, and decision-making skills.

Prerequisite: Junior standing.

4308 Housley Leadership Class (3-0). The Principled Leadership course is a seminar style leadership dialogue and workshop designed to bring self-awareness to the development of student leaders. With sessions like You, Inc. covering individual brand power, themed discussions about the need for principled and disciplined leaders and discussions that challenge definitions of "service" - each week provides applicable and inspiring content for students on the path to fulfilling their leadership potential.

Prerequisite: Departmental permission required.

4311 Small Business Competition Seminar (3-0). As a seminar course, the course is designed for students to apply knowledge gained in previous courses by working with local entrepreneurs in formulating business plans. The course will require participation in visiting and working at various locations. Students will complete a Small Business Management Certification Program from the Small Business Development Center.

Prerequisite: Departmental approval required.

4319 Forecasting and Planning (3-0). The course serves as a general course in forecasting methods. Techniques covered include smoothing, decomposition, regression, judgmental techniques, and new product forecasting. Comparison and selection of the appropriate techniques is addressed. Emphasis is placed on the interface between forecasting and the managerial functions of implementation and control. A combination of lectures, analytical exercises, problems, and computer exercises are used. Implementation of a forecast system in a small business is also utilized.

Prerequisite: Management 2331 or consent of instructor.

4331 Global Supply Chain Management (3-0). The course will focus on the integration of suppliers, logistics, production facilities, and distribution centers in order for customers to receive the right product at the right quantity and the right time. Also, emphasis will be given to issues of contract administration, location, and evaluation of foreign suppliers, exchange fluctuations, and customs procedures. Key concepts of supply chain management (SCM) and opportunities involving SCM strategy will be studied. In addition to conceptual topics, quantitative tools will also be presented in class. (Credit may not be earned for this course and Marketing 4331.)

4336 Fundamentals of Networking (3-0). A first course in data communications and networking. Topics include: IP networks and services, comparative network configurations and communications protocols, function and purpose of physical network components, resource sharing, client-server systems, administrative issues and tools, and industry standards. Provides initial training and opportunity for professional Network certification.

Prerequisites: Management 3343 and either Computer Science 1351 or 1336 or 1337 or 3312.

4343 System Analysis and Design (3-0). Provides an understanding of the system development and modification process. Emphasizes the application of analysis and design techniques, methodologies, and tools for solving business problems.

Prerequisites: Management 3343 and either Computer Science 1351 or 1336 or 1337 or 3312.

Management (MGMT) continued

4344 Database Management Systems (3-0). An introduction to the design and implementation of databases for use in business organizations. Topics include data modeling and the use of user-oriented data languages. Students will design and deploy their own database.

Prerequisites: Management 3343 and either Computer Science 1351 or 1336 or 1337 or 3312.

4361 Organizational Training and Development (3-0). This course provides students with the foundational knowledge and applied skills to design and implement training and development in organizational settings, including assessing training needs, active learning strategies, evaluating training effectiveness, and incorporating technology to train organizational members.

Prerequisite: Junior standing.

4362 Seminar in Management Information Systems (3-0). Designed to acquaint the student with current literature and to evaluate new technological developments in the field of management information systems.

Prerequisite: Management 3343.

4371 Internship in Management. Students will participate in a structured work experience at the management trainee level. A pass or fail grade will be assigned by the instructor based on input on student performance from the employment supervisor and using the required weekly journals prepared by students. (Course may be repeated once for credit with permission of the instructor or department chair.)

Prerequisite: Permission of the instructor.

4381 Special Topics (3-0). Selected topics in management. May be repeated once for credit when topic varies.

Prerequisite: Junior standing.

Marketing (MKTG)

3321 Marketing (3-0). Covers the role of marketing within organizations and in society. Topics include marketing objectives, the marketing process, and elements of the marketing mix.

3322 Consumer Behavior (3-0). An integration of behavioral concepts in the analysis of consumer behavior and in marketing strategy formulation.

Prerequisite: Junior standing.

3323 Sales (3-0). Topics include: Management of the personal selling function of firms; selection and training of sales personnel; performance evaluation; establishment of realistic sales goals; motivation of the sales force; coordination of personal selling with non-personal organization communications.

Prerequisite: Junior standing.

3324 Sports and Entertainment Marketing (3-0). This course investigates the business of entertainment, including movies, concerts, theme parks, and sporting events that have a tremendous impact on our economy and provide many career opportunities. These activities are global in their reach and impact. Sports marketing is a growing division of the marketing field that focuses on the business of sports and the use of sports as a marketing tool.

3325 Promotion Management (3-0). A study of Integrated Marketing Communications and the traditional promotional mix: advertising, sales promotion, direct marketing, public relations, and personal selling. Including communication and promotion theories, campaign strategies, promotion budgeting, media analysis; and audience measurement.

Prerequisite: Junior standing.

3326 Retailing (3-0). A study of the many facets of retailing to include the development of retail strategies, retail consumer behavior, product considerations, store location and layout, merchandise management, the buying function, promotional strategy, personal selling, management of human resources, controlling the retail operation, and consumer services.

Prerequisite: Junior standing.

4091 Research: 1 to 6. A specialized course providing research opportunities for superior students. Grading will be either pass or fail.

Prerequisite: Permission of the instructor.

4321 International Marketing (3-0). A study of the fundamental concepts, principles, and theories of marketing in an international setting. Particular attention is given to foreign environmental variables including political, legal, geographic and culture affecting marketing strategies. Global issues that challenge today's marketer, techniques for successfully entering international markets and the basic elements of an international marketing mix are studied.

Prerequisite: Junior standing.

4322 Digital and Social Media Marketing (3-0). A study of the changing digital marketing landscape with emphasis on search engine marketing, digital advertising, and social media marketing. Use of current market tools is stressed.

Prerequisite: Marketing 3321.

4325 Marketing Management (3-0). Case analysis involving strategy and tactics for the solution of marketing problems; decision-theory stressing the interdisciplinary nature of marketing management.

Prerequisites: Management 3332, Marketing 3321, 3322, and three elective hours in Marketing.

4331 Global Supply Chain Management (3-0). The course will focus on the integration of suppliers, logistics, production facilities, and distribution centers in order for customers to receive the right product at the right quantity and the right time. Also, emphasis will be given to issues of contract administration, location, and evaluation of foreign suppliers, exchange fluctuations, and customs procedures. Key concepts of supply chain management (SCM) and opportunities involving SCM strategy will be studied. In addition to conceptual topics, quantitative tools will also be presented in class. (Credit may not be earned for this course and Management 4331.)

4371 Internship in Marketing. Students will participate in a structured work experience at the marketing trainee level. A pass or fail grade will be assigned by the instructor basked on input on student performance from the employment supervisor and using the required weekly journals prepared by students. (Course may be repeated once for credit with permission of the instructor or department chair.)

Prerequisite: Permission of the instructor.

4381 Special Topics (3-0). Special topics in marketing. (May be repeated once for credit when topic varies.)

Prerequisite: Junior standing.

Mass Media (MM)

1307/COMM 1307 Introduction to Mass Media (3-0). Study of the media by which entertainment and information messages are delivered. Includes an overview of the traditional mass media: their functions, structures, supports, and influences.

1311 Writing for Mass Media (3-0). The fundamentals of purpose, context, voice, technique, and structure for effective writing for various forms of mass media.

1335/COMM 1335 Introduction to Radio/Television/Film (3-0). A survey of the radio/TV cable industry in America including programming, regulations, technology and history. (Credit may not be earned for this course and Communication 1335.)

1337/COMM 1337 Beginning Video Production (3-0). Operation and use of television production equipment; fundamentals of digital video production and direction using single- and multi-camera formats. (Credit may not be earned for this course and Communication 1337.)

2300/COMM 2300 Media Literacy (3-0). An analysis of media and its impact on society. Emphasis is on understanding the cultural, political, economic and social impact of media in the United States and the world.

2303/COMM 2303 Audio Production (3-0). Capturing quality recordings in the field and studio. Course assignments will include preproduction planning, scheduling, writing and editing audio projects. (Credit may not be earned for this course and Communication 2303.)

2311 News Reporting and Writing (3-0). Methods of gathering and writing news including audience analysis, news evaluation, fact gathering, interviewing, and information dissemination.

Prerequisite: Mass Media 1311.

2345 Graphic Design for Multimedia (3-0). Principles and practice of visual communication using a variety of industry-standard software. Projects range from publication design to web development with a focus on the application of graphic design principles.

3313 Magazine and Feature Writing (3-0). Techniques of feature writing, with a practical approach to researching, writing, targeting niche audiences, and marketing feature stories to the mass media.

Prerequisite: Mass Media 1311.

3314 Copy Editing (3-0). Principles and practices in copy editing, photograph selection and editing, headline writing, use of the language, and news judgment.

Prerequisite: Mass Media 1311.

3320 Social Media for Journalists (3-0). Techniques for developing strategies and tactics for news reporting and content creation for social media platforms used by news organizations. Course work will include producing posts, photos, videos, and graphics for social sharing, and measuring the engagement and effectiveness of contest.

3335 Public Relations Principles (3-0). Fundamentals of public relations including the history, terminology and various components of the profession. Some time will be spent preparing news releases and a public relations campaign.

3342 Advertising Principles (3-0). A study of the principles and practices of advertising, with an emphasis on the strategic process and preparation of advertising for the mass media. (Credit may not be earned for this course and Communication 3342.)

3360 Sports Broadcasting (3-0). This course will provide an introduction to the Sports Broadcasting Media Industry. Students will learn the various role within conducting a live sports broadcast for local television. The roles to be taught in the course will feature: Play-By-Play, Color Analyst, Sports Production and Reporting. (Credit may not be earned for this course and Communication 3360.)

3361 Electronic Media Programming (3-0). Theories and strategies of program selection, scheduling and evaluation for electronic media. Theory and practice of producing and scheduling prime time television programs. (Credit may not be earned for this course and Communication 3361.)

Prerequisites: Communication 1337 or Mass Media 1337 and advanced standing.

3363 Electronic News Gathering and Production (3-0). Theory and practice of producing video newscasts on location and in a station environment. Focus on shooting and editing. Extensive hands-on experience equipment. Production of multiple packages and news pieces. (Credit may not be earned for this course and Communication 3363.)

Prerequisites: Communication 1337 or Mass Media 1337, and advanced standing.

3370 Communication and Media Law (3-0). A study of statutory, administrative, and case law relevant to the First Amendment and U.S. communication industry. Attention given to applicable Texas Law. (Credit may not be earned for this course and Communication 3370.)

3381 International Study Abroad in Mass Media (3-0). This course is designed for classes offered through the study abroad program. Course topics vary by program. This course may be repeated for up to 6 hours to meet major requirements.

4301 Senior Seminar (3-0). Capstone course for all areas of mass media, emphasizing portfolio development and other preparation for entry into the mass media profession. Course topics also include: professional communication excellence, job interviewing, team communication, cultural sensitivity, and work-life balance. (Credit may not be earned for this course and Communication 4301.)

4320 Broadcast Journalism (3-0). This course provides an in-depth hands-on exploration of broadcast journalism within the context of the contemporary mass media industry Students will learn the fundamentals of broadcast newswriting, reporting, and production for television, radio, and digital platforms.

4321 Advanced Photography (3-0). Advanced photographic principles using a digital SLR. Emphasis on the use of color, light, and composition in photography.

Prerequisites: Mass Media 1318, Communication 3325 or Mass Media 3325, or permission of the instructor.

Mass Media (MM) continued

4335 Advertising/Public Relations Campaigns and Cases (3-0). Case-method and campaign planning as they pertain to advertising and public relations administration. Emphasis on development of creative strategy and media selection. (Credit may not be earned for this course and Communication 4335.)

4355 Mass Media Effects and Ethics (3-0). A study of social science research methodology as applied to mass media research. The course will examine current theories of the effects of mass media on audiences. The study of reasoning and ethical decision making as they relate to the mass media. (Credit may not be earned for this course and Communication 4355.)

4364 Media Management (3-0). Management functions, advertising, sales, and internal organizational structure of media.

Prerequisite: Advanced standing.

4365 Advanced Video Production (3-0). Theories and techniques for producing, directing, and editing single and multiple-camera productions; to include script writing, shooting, and post production for video field and studio work. (Credit may not be earned for this course and Communication 4365.)

Prerequisite: Communication 1337 or Mass Media 1337.

4379 Mass Media Internship. Students gain on-the-job experience by working in the industry. Limited to students majoring in Mass Media. Upper-level students are selected on the basis of a written application submitted to the department chair one semester in advance. (May be repeated once for credit for a maximum of 6 semester hours credit.)

Prerequisite: Department permission required.

4381 Special Topics (3-0). Selected topics in mass media and mass communication. (May be repeated once for credit when topic varies.)

Prerequisites: Senior standing and department chair approval.

4391 Research. A specialized course which may be directed reading or research for superior students majoring in mass media.

Prerequisites: Senior standing and department chair approval.

Mathematics (MATH)

1191 Research. Individual research problems. May be repeated for a total of four credits.

1314/MATH 1314 College Algebra (3-0). In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations. Additional topics such as sequences, series, probability, and conics may be included.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements.

1316/MATH 1316 Trigonometry with Analytic Geometry (3-0). In-depth study and applications 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: Mathematics 1314 or 1324, or a suitable score on a placement exam.

1324/MATH 1324 Finite Mathematics I (3-0). Topics include basic algebra, linear equations, quadratic equations, functions and graphs, inequalities, logarithms and exponential functions, mathematics of finance, linear programming, matrices, systems of linear equations, and applications to management, economics, and business.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements.

1332/MATH 1332 Introduction to Contemporary Mathematics (3-0). Intended for Non-STEM majors. Topics include introductory treatments of sets, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communications should be embedded throughout the course. Additional topics may be covered.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements.

1342/MATH 1342 Elementary Statistics (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.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements.

1350/MATH 1350 Fundamental Mathematics for Elementary and Middle School Teachers (3-0). The system of whole numbers, numeration systems, the system of integers, elementary number theory, fractions and rational numbers, decimals and real numbers, and the properties of mathematical operations. In-class activities include making and using math manipulatives, comparing different problem-solving techniques, making interdisciplinary connections, and experiencing math concepts through auditory, visual, and kinesthetic approaches to inquiry-based activities.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements

1351/MATH 1351 Geometry for Elementary and Middle School Teachers (3-0). The fundamentals of plane and solid geometry, including measurement, area, volume, motion, and constructions. In-class activities will include making and using math manipulatives, comparing different problem-solving techniques, making interdisciplinary connections, and experiencing math concepts through auditory, visual, and kinesthetic approaches to inquiry-based activities.

Prerequisite: Mathematics 1350.

1352 Algebraic Reasoning for Elementary and Middle School Teachers (3-0). Ratio and proportion, elementary number theory, the fundamentals of algebra, statistics, and probability, and the application of these topics in the contest of elementary and middle school. In-class activities will include making and using math manipulatives, comparing different problem-solving techniques, making interdisciplinary connections, and experiencing math concepts through auditory, visual, and kinesthetic approaches to inquiry-based activities.

Prerequisite: Mathematics 1350.

1391 Research. Individual research problems.

Mathematics (MATH) continued

2305/MATH 2305 Discrete Mathematics I (3-0). A course designed to prepare math, computer science, and engineering majors for a background in abstraction, notation, and critical thinking for the mathematics most directly related to computer science. Topics include: relations, functions, basic set theory, countability and counting arguments, mathematical induction, combinatorics, discrete probability, recursion, sequence and recurrence, elementary number theory, graph theory, and mathematical proof techniques.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements.

2312/MATH 2312 Precalculus (3-0). Review of algebra, solving equations and inequalities, study of functions and inverse functions, vectors in the plane and space, parametric equations, and lines and planes in space.

Prerequisite: Mathematics 1314 or a suitable score on a placement exam.

2350 Applied Mathematics for AI (3-0). This course introduces mathematical concepts critical for understanding and implementing AI algorithms, with a focus on linear algebra, probability, and statistics.

Prerequisite: Mathematics 2305, 2312.

2412/MATH 2412 Precalculus (4-0). In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

Prerequisite: Mathematics 1314 or a suitable score on a placement exam.

2413/MATH 2413 Calculus I (4-0). Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Prerequisites: Mathematics 1316 and 2312; or a suitable score on a placement exam.

2414/MATH 2414 Calculus II (4-0). Integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

Prerequisite: Mathematics 2413.

3300 Introduction to Abstract Mathematics (3-0). Logic, set operations, equivalence relations, properties of the real number system, cardinality of sets, and related topics, with an emphasis throughout on developing the necessary skills to read and construct formal mathematical arguments.

Prerequisite: Mathematics 2413.

3301 Linear Algebra (3-0). The algebra and geometry of finite dimensional vector spaces; determinants; linear transformations and matrices; characteristic values and vectors of linear transformations.

Prerequisite: Mathematics 2413.

3305 Discrete Mathematics II (3-0). Graphs, matrices, computational methods, and other discrete structures.

Prerequisite: Mathematics 2305.

3307 Probability and Statistics (3-0). Mathematical models of random processes; probability spaces; random variables; dependence and independence; mean values and moments of random variables; density and distribution functions; laws of large numbers.

Prerequisites: Mathematics 2305, 3415.

3310 Introduction to Problem Solving (3-0). Designed to help the student develop analytical skills through exposure to a variety of problem solving techniques utilizing algebra, geometry, trigonometry, and other areas of precalculus mathematics. Includes graphing calculator and instructional software applications. For students pursuing secondary teacher certification in mathematics.

Prerequisites: Mathematics 1316, 2312, 2413.

3321 Statistics (3-0). A survey of statistical methods, including distributions, central tendency, variability, inferential procedures for two or more populations; one-way ANOVA, inferential methods for regression and correlation.

Prerequisites: Mathematics 1314, 1316, 1324, 1342, 2312, or 2413.

3324 Applied Mathematics for Engineering (3-0). Application of mathematical principles to the analysis of engineering problems using linear algebra and ordinary differential equations (ODE's). Topics include: mathematical modeling of engineering problems; separable ODE's; first-, second-, and higher-order linear constant coefficient ODE"s; characteristic equation of an ODE; non-homogeneous equations; matrix addition and multiplication; solution of a linear system of equations; rank, determinant, and inverse of a matrix; eigenvalues and eigenvectors; solution to system of ODE's by diagonalization; Fourier transforms. This course also introduces the use of scientific computing for the solution of differential equations and linear algebra problems.

Prerequisites: Mathematics 2413 and 2414.

3335 Differential Equations (3-0). Solution of differential equations, with geometric and physical applications.

Prerequisite: Mathematics 3415.

3415 Calculus III (4-0). Calculus of multivariable functions including partial differentiation, multiple integrals, vector functions, line integrals, Green's Theorem, and Stoke's Theorem.

Prerequisite: Mathematics 2414.

4091 Research: 1 to 6. May be repeated for a total of 12 credits.

Prerequisite: Consent of the department chair.

4171, 4271, 4371 Internship. Supervised internship with an approved cooperating business or government agency encompassing duties directly related to the mathematical sciences. Grading will be either pass or fail. (May be repeated for credit.)

4181 Seminar in Mathematics (1-0). Presentations and discussions on selected topics to encourage an exchange among mathematics majors and faculty members. (May be taken at most twice for credit.)

4301 Abstract Algebra (3-0). Elementary number theory including integer congruences and modular arithmetic, equivalence relations, basic topics in ring and group theory including the fundamental homomorphism theorems, structure and basic properties of fields.

Prerequisite: Mathematics 3300.

Mathematics (MATH) continued

4311 Numerical Analysis (3-0). Number representations, error analysis; roots of equations; numerical integration, approximation, and differentiation; systems of equations; approximation by spline functions; ordinary differential equations; Monte Carlo methods and simulation.

Prerequisites: Mathematics 2414.

4321 College Geometry (3-0). A study of Euclidean, non-Euclidean, and transformational geometry.

Prerequisite: Mathematics 2413.

4322 A Survey of Mathematics with Applications (3-0). Logic and set theory, algebraic and transcendental functions, inverse functions, limits, the derivative and integral, sequences and series, linear systems, vectors, geometry, probability and statistics. Emphasis on applications utilizing the graphics calculator.

Prerequisites: Mathematics 1316, 2305, 2312, 2413, 3301, 3307 or 3321, 3310, 4321; 2.75 GPA, with no grade lower than "C" in all required mathematics courses attempted, cumulative and in residence; admission to the Educator Preparation Program.

4331 Analysis (3-0). The real number system, functions, limits, continuity, differentiation, Riemann integration, sequences.

Prerequisites: Mathematics 2414, 3300.

4335 Partial Differential Equations (3-0). A survey of partial differential equations, including classification, qualitative features, methods of solution, and applications.

Prerequisite: Mathematics 3324 or 3335.

4351 Topology (3-0). Sets and functions, metric spaces, topological spaces, compactness, separation, connectedness, approximation.

Prerequisite: Mathematics 3300.

4355 Topics in Abstract Mathematics (3-0). Selected topics from number theory, field theory, or other areas of higher mathematics, with an emphasis on understanding and constructing proofs of theorems. (May be repeated for credit when the topic varies.)

Prerequisite: Consent of the instructor.

4361 Complex Variables (3-0). Complex numbers, analytic functions, complex integration, power series, residues, conformal mapping, and applications.

Prerequisite: Mathematics 2414.

Mechanical Engineering (MENG)

2311 Engineering Thermodynamics (3-0). Fundamental laws of thermodynamics. Thermodynamic properties of matter, solids, liquids, gases (including ideal gases). Thermodynamic cycles and idealizations.

Prerequisite: Mathematics 2414.

3351 Measurement and Instrumentation (2-3). Fundamentals of mechanical engineering measurement instruments and theory including measurement principles, function, and application. Data acquisition, data analysis, statistical methods, and uncertainty analysis. A focus on measurement of force, stress, strain, pressure, and temperature. Analog and digital data acquisition system theory and practice.

Prerequisites: Engineering 2305, 3305, and Mathematics 3324.

3352 Computer Aided Engineering (2-3). Use of software platforms for the analysis of engineering systems. Computer programing including data structures and uses of scientific libraries. An introduction to finite element analysis and numerical methods for the solution of structural, fluid and thermal problems. LabView/arduino programming with an emphasis on data acquisition.

Prerequisites: Mathematics 3324, and either Engineering 2304 or Computer Science 1314 or 1336.

3353 Manufacturing Processes and Systems (2-2). Introduction to manufacturing processes, manufacturing equipment, and planning and control of manufacturing systems. The role of manufacturing and its relation to engineering materials design, control and its importance for society will be addressed. The course includes practical project learning experiences.

Prerequisite: Engineering 3331.

3411 Heat Transfer (3-3). Fundamentals of heat transfer; conduction, convection, and radiation. Steady-state and transient conduction analysis. Lumped capacitance. Convection heat transfer for laminar and turbulent flow regimes. Radiation heat transfer between solid bodies.

Prerequisites: Mechanical Engineering 2311, Mathematics 3324, completion or concurrent enrollment in Engineering 3404. Mechanical Engineering Majors only.

3441 Mechanisms and Dynamics of Machines (3-3). Kinematic analysis of common machine elements including gear trains, cams, followers,and linkages. Kinetic analysis of machines and components; power transmission, load and stress analysis, shafts, bearings, belts,and flywheels.

Prerequisites: Engineering 2302 and Mathematics 3324.

4071 Mechanical Engineering Internship (1-6). Internship in Mechanical Engineering. Course may be repeated for up to six units total credit.

Prerequisite: Departmental permission.

4091 Independent Study (1-6). Independent study or individual research problems in Mechanical Engineering. May be repeated for a total of 12 credits.

Prerequisite: Mechanical Engineering Majors only with Junior or Senior standing. Departmental permission.

4279 Mechanical Engineering Senior Design I (1-2). Mechanical Engineering capstone experience. Engineering concepts integrated from topics taught in sequences of upper-division courses to produce practical, efficient and feasible solutions of mechanical engineering problems. Computer applications are included. Final oral and written reports are required.

Prerequisite: Senior standing within two semesters of graduation. Departmental permission.

4311 Thermal-Fluids System Design (2-2). Mechanical engineering solutions through application of thermodynamic, fluid mechanics, and heat transfer principles including the hardware, software, and instrumentation needed to implement such solutions. Focus areas may include pump selection and piping systems, HVAC, heat exchangers, power, gas, and refrigeration cycles.

Prerequisites: Engineering 3404 and Mechanical Engineering 3411, 3351.

Mechanical Engineering (MENG) continued

4331 Materials Design (2-3). Mechanical engineering design considerations for materials selection, fabrication, materials design strategies, and property compatibility for industry application needs. Economic and energy factors. Composite material design. Properties and processing of metals, ceramics, elastomers, polymers, and emerging materials. Related test specifications and materials characterization for different materials.

Prerequisite: Engineering 3331; Mechanical Engineering Majors only, or Departmental permission.

4341 Machine and Power System Design (2-2). Mechanical engineering solutions through application of mechanics, mechanisms, materials, and energy/power principles including the hardware, software, and instrumentation needed to implement such solutions. Applications to multidisciplinary problems; focus upon mechanical engineering design and analysis considering energy and the transmission of power.

Prerequisites: Engineering 2332 and Mechanical Engineering 3351, 3441.

4351 Mechatronic System Design (2-2). Design, analysis, selection, and implementation of systems that combine electronics and mechanical components such as actuators and sensors with modern control and microprocessors. The course will explore the fundamentals of the mechatronics design process, microcontrollers interfacing and programming, sensors, actuators, and building robotic systems.

Prerequisites: Mechanical Engineering 3351, and either Engineering 2304 or Computer Science 1314 or 1336.

4352 Dynamical Systems (3-0). Mathematical modeling and analysis of devices and processes to understand their time-dependent behavior. This course gives an introduction to the modeling of dynamic systems (mechanical, fluid and heat transfer, electrical systems), transfer function, system responses, stability analysis, and feedback control systems along with computer analysis tools (Matlab and Simulink).

Prerequisite: Mathematics 3324; Mechanical Engineering Majors only.

4361 Design of Experiments (2-2). Use of engineering principles to verify and test engineering and mechanical equipment. Calibration of testbeds/systems and proposal of experimental protocols and procedures to gather data and address engineering problems. A strong emphasis upon written and oral communication in a technical engineering context.

Prerequisites: Engineering 2332 and Mechanical Engineering 3351, 3441.

4380 Mechanical Engineering Senior Design II (1-4). Mechanical Engineering capstone experience. Engineering concepts integrated from topics taught in sequences of upper-division courses to produce practical, efficient and feasible solutions of mechanical engineering problems. Computer applications are included. Final oral and written reports are required. Intended to be taken in the final semester.

Prerequisites: Mechanical Engineering 4279. Departmental permission.

4381 Special Topics in Mechanical Engineering (3-0). Special topics in mechanical engineering. Course may be repeated twice for credit when topics vary.

Prerequisite: Departmental permission.

Mexican American Studies (MAS)

2301 Introduction to Mexican American Studies (3-0). The objective of this interdisciplinary course is to provide an introductory level survey of Mexican-origin people in the United States. The course examines the various political, social, cultural, and economic currents and influence that have shaped the Mexican American experience.

Music (MUAP)

Titles of courses are followed by two numbers in parentheses. The first number gives the number of lecture hours each week; the second gives the number of rehearsal or laboratory hours each week. For example, (1-1) indicates one hour of lecture and one hour of laboratory each week. For ensembles, (0-5) indicates five hours of rehearsal each week.

The numbers in parentheses following MUAP courses and MUSI courses taught in a private setting indicate actual clock hours of instruction. For example, (1/2) indicates one half hour of private instruction each week, while (1) indicates one hour of private instruction each week.

B.A. majors, non-majors, and B.M. students studying a secondary instrument may only take one credit (1/2 hour) lessons.

Non-music majors: A limited number of non-music majors will be accommodated in applied study each semester. Enrollment is not guaranteed.
Students enrolled in applied music are expected to practice. B.A. students are expected to practice a minimum of six hours a week in addition to lesson time. B.M. with a specialization in Teacher Certification students are expected to practice a minimum of nine hours a week in addition to lesson time. B.M. with a specialization in Applied Performance-Instrumental/Piano or Voice students are expected to practice a minimum of twelve hours a week in addition to lesson time.

Applied Music

1100 Applied Music for Non-Music Majors (1/2). Private study of principles and techniques of performance. For non-music majors and secondary study for music majors. May not be taken to fulfill the requirements for the music minor degree. (May be repeated for credit.)

1101 Applied Music (1/2). Private study of principles and techniques of performance. For B.A. students and music minors.

1102 Applied Music (1/2). Private study of principles and techniques of performance. For B.A. students and music minors.

Prerequisite: Successful completion of MUAP 1101.

1201 Applied Music (1). Private study of principles and techniques of performance. For B.M. students.

1202 Applied Music (1). Private study of principles and techniques of performance. For B.M. students.

Prerequisite: Successful completion of MUAP 1201.

2101 Applied Music (1/2). Private study of principles and techniques of performance. For B.A. students.

Prerequisite: Successful completion of MUAP 1102.

Applied Music (MUAP) continued

2102 Applied Music (1/2). Private study of principles and techniques of performance. For B.A. students.
Prerequisite: Successful completion of MUAP 2101.

2201 Applied Music (1). Private study of principles and techniques of performance. For B.M. students.
Prerequisite: Successful completion of MUAP 1202.

2202 Applied Music (1). Private study of principles and techniques of performance. For B.M. students.
Prerequisite: Successful completion of MUAP 2201.

3101 Applied Music (1/2). Private study of advanced principles and techniques of performance. For B.A. students.
Prerequisite: Successful completion of MUAP 2102.

3102 Applied Music (1/2). Private study of advanced principles and techniques of performance. For B.A. students.
Prerequisite: Successful completion of MUAP 3101.

3199 Junior Recital (1/2). A minimum of 25 minutes representative repertoire for the instrument or voice. May be shared with another student.
Prerequisites: Passing score on the Sophomore Applied Skills Test and department permission.
Corequisite: Concurrent registration in MUAP 3202.

3201 Applied Music (1). Private study of advanced principles and techniques of performance. For B.M. students.
Prerequisites: Successful completion of MUAP 2202.

3202 Applied Music (1). Private study of advanced principles and techniques of performance. For B.M. students.
Prerequisite: Successful completion of MUAP 3201.

4101 Applied Music (1/2). Private study of advanced principles and techniques of performance. For B.M. with a specialization in Teacher Certification students.
Prerequisite: Successful completion of MUAP 3202.

4199 Senior Recital (1/2). A minimum of 25 minutes (B.M. with a specialization in Teacher Certification) or 50 minutes (B.M. with a specialization in Applied Performance) of representative repertoire for the instrument or voice.
Prerequisites: Passing score on the Sophomore Applied Skills Test and department permission.
Corequisite: Concurrent registration in MUAP 4101 or 4202.

4201 Applied Music (1). Private study of advanced principles and techniques of performance. For B.M. with a specialization in Applied Performance students.
Prerequisite: Successful completion of MUAP 3202.

4202 Applied Music (1). Private study of advanced principles and techniques of performance. For B.M. with a specialization in Applied Performance students.
Prerequisite: Successful completion of MUAP 4201.

Music (MUEN)

Ensemble

All ensembles may be repeated for credit. Participation in ensembles is by permission of the instructor.

1100, 3100 University Chorale (0-3). Performance experience in a mixed chorus which performs beginning to advanced repertoire representing all genres, composers, and countries. Open to all students. No audition required.

1101, 3101 Chamber Singers (0-5). Performance experience in a mixed chorus consisting of technically advanced vocalists. Open to all students through a competitive audition.

1102, 3102 Opera/Music Theatre Workshop (0-3). A study of singing-acting techniques with experimental learning through the use of scene work taken from opera and music theatre literature. This group will perform ensembles, quartets, trios, and duets as well as solo material. Open to all students by audition.

1103, 3103 San Angelo Chorus (0-2). Performance experience in a mixed civic choral ensemble. Open to all students through light screening.

1110, 3110 Marching Ram Band (0-5). Performance experience in the Marching Ram Band. Open to all students with three years of high school marching band experience or equivalent.

1111, 3111 Wind Ensemble (0-5). Performance experience of wind band repertoire. Open to all students by audition.

1112, 3112 Symphonic Band (0-3). Performance experience in the concert band medium. Open to all students with three years of high school band experience or equivalent.

1113, 3113 Jazz Ensemble (0-3). Performance experience of jazz band repertoire. Open to all students with the permission of the instructor.

1114, 3114 Ram Horns (0-3). Performance experience in the basketball pep band. Open to all students by audition.

1115, 3115 Marching Percussion (0-2). Performance experience in Marching Percussion.

1120, 3120 Symphony Orchestra (0-5). Performance experience of orchestral and string repertoire. Violin, viola, cello and bass players may enroll with high school orchestra or similar experience. Open to wind and percussion players by audition.

1130, 3130 Small Ensembles (0-2). Performance experience in a small ensemble. Includes Flute Ensemble, Clarinet Choir, Saxophone Ensemble, Double Reed Ensemble, Woodwind Quintet, Brass Choir, Brass Quintet, Trumpet Ensemble, Percussion Ensemble, String Quartet, Mixed String Ensemble, Double Bass Ensemble, Beginning String Orchestra, and Intermediate String Orchestra.

Music (MUSI)

1000 Recital Attendance (0). Attendance at 15 departmentally approved recitals/concerts per semester. May be repeated. Grading will be either pass or fail.

1117/MUSI 1117 Aural Skills II (0-2). Sight-singing and ear-training of rhythms, intervals, scales, melodies and harmony.

Prerequisite: Successful completion of MUSI 1211 or a passing score on the Music Theory Placement Exam.

1211 Music Theory I - Basic Musicianship (2-1). Introduction to the elements of Music Theory: scales, intervals, keys, triads, elementary ear training, sight-singing, keyboard harmony, notation, meter, and rhythm. For entry-level music majors and minors needing to develop an understanding of the rudimentary aspects of music.

1303/MUSI 1303 Introduction to Music Theory (3-0). Introduction to the elements of music theory, including scales, intervals, keys, triads, notation, meter, and rhythm. This course also examines the music of non Western cultures. This course is designed for non-music majors.

1305 The History of Jazz (3-0). A survey of the genesis and development of this uniquely American art form encompassing the rich multicultural heritage of the early jazz pioneers to today's avant-garde. This course is designed for non-music majors.

1306/MUSI 1306 Introduction to Music (3-0). A study of what constitutes art music, the basic elements of music, and their use in the major style periods and genres of Western European Art Music.

1308 American Musical Theatre (3-0). A study of the history and development of the Broadway musical and related art forms. This course is designed for non-music majors.

1310/MUSI 1310 American Popular Music (3-0). A study of the history and development of popular music in the United States, including jazz, blues, country, and rock and roll. This course is designed for non-music majors.

1312/MUSI 1312 Music Theory II (3-0). The study of concepts in music theory including intervals, scales, triads, seventh chords, tonal harmonic progression, voice leading, triads in inversion, and small scale form. Students will use these concepts to harmonize melodies and figured bass examples and to analyze tonal compositions.

Prerequisite: Successful completion of MUSI 1211 or a passing score on the Theory Placement Exam.

1313 Survey of Rock and Roll (3-0). A study of the beginnings of rock music in the early 50's and the developments in this style up to the present. The course is designed for non-music majors.

2116/MUSI 2116 Aural Skills III (0-2). A continuation of MUSI 1117.

Prerequisite: Successful completion of MUSI 1117.

2117/MUSI 2117 Aural Skills IV (0-2). A continuation of MUSI 2116.

Prerequisite: Successful completion of MUSI 2116.

2311/MUSI 2311 Music Theory III (3-0). A continuation of MUSI 1312. The study of non-harmonic tones, the use of seventh chords in harmonization, tonal harmonic progression and voice leading, secondary dominant and secondary leading tone chords, modulation, and binary and ternary forms. Students will harmonize melodies and figured bass examples and analyze tonal compositions.

Prerequisite: Successful completion of MUSI 1312.

2312/MUSI 2312 Music Theory IV (3-0). A continuation of MUSI 2311. The study of modal borrowing, Neapolitan chords, augmented sixth chords, enharmonicism, and a multitude of 20th and 21st century practices and techniques. Students will learn to use the information covered in class to harmonize melodies and figured bass examples and analyze tonal and 20th century compositions.

Prerequisite: Successful completion of MUSI 2311.

3136 The High School Marching Band (0-2). The study of the organization, administration, current practices, drill writing and appropriate literature for the high school marching band. Application of concepts included.

Prerequisite: Successful completion of MUSI 2311.

3150 Improvisation (1-1). A study of the techniques, practices and styles of improvisation in music through the use of practical experiences.

Prerequisite: Successful completion of MUSI 2311.

3233 Elementary Music Methods (2-1). The study of philosophies and methodologies related to teaching in the elementary music classroom. Application will be through participation in sample lessons and creating and tracking elementary music lessons. Field experiences included.

Prerequisite: Successful completion of MUSI 2311.

3234 Secondary Instrumental Methods (2-1). The study of band and orchestral curriculum, scheduling, organization, recruitment, band/orchestral literature and its sources, class management and discipline, ensemble performance skills, professional organizations and their application to the public school setting, administrators, central administrations and parent booster organizations.

Prerequisite: Successful completion of MUSI 2311.

3235 Secondary Choral Methods (2-1). The study of the adolescent voice, the changing male voice, voice classification, choral curriculum and scheduling, choral organization, auditioning, recruitment, overview of choral literature, source for choral literature, repertoire selection, class management and discipline, ensemble performance skills, professional organizations, administrators and central administrations, and parent booster organizations.

Prerequisite: Successful completion of MUSI 2311.

3251 Form and Analysis (2-0). An overview of forms used in Western music. Music from the medieval period through the 21st century will be considered.

Prerequisite: Successful completion of MUSI 2311.

3340 Music History I (3-0). A survey of Western art music, including its social contexts, from Antiquity through the Classical Era ending with Mozart. This course emphasizes listening and a comprehension of important styles and genres.

Prerequisites: Successful completion of MUSI 1211 and 1306.

Music (MUSI) continued

3341 Music History II (3-0). A survey of Western art music, including its social contexts, beginning with Beethoven through the modern era. This course emphasizes listening and comprehension of important styles and genres.

Prerequisite: Successful completion of MUSI 3340.

4131 Choral Conducting (1-1). The application of the skills learned in Conducting I to the choral ensemble and choral repertoire. Advanced choral conducting techniques will be learned while studying standard works of the choral art repertoire. In addition, choral score preparation, rehearsal techniques, and performance skills will be covered.

Prerequisite: Successful completion of MUSI 4230.

4132 Instrumental Conducting (1-1). The application of the skills learned in Conducting I to instrumental ensembles and the instrumental repertoire. Advanced instrumental conducting techniques will be learned while studying standard works of the wind-band and orchestral repertoire. In addition, band and orchestral score preparation, rehearsal techniques, and performance skills will be covered.

Prerequisite: Successful completion of MUSI 4230.

4152 Orchestration (1-1). Basic principles of orchestration with a focus on the instruments of the orchestra and concert band and their use in various ensembles. Emphasis is upon the development of practical orchestration skills such as transcribing, arranging, score and part preparation, and the use of music notation software.

Prerequisite: Successful completion of MUSI 2311.

4153 Composition (1/2). Introduction to 20th and 21st century composition techniques. Enables the student to gain facility in the art of music composition and using music notation software. (May be repeated for credit.)

Prerequisite: Permission of instructor.

4230 Conducting I (2-1). The study and practice of the physical gestures associated with conducting beat patterns, use of the left hand, cues, dynamics, tempo, phrasing, accents, character, starting and stopping, fermatas, merging, and baton technique.

Prerequisite: Successful completion of MUSI 2311.

4381 Special Topics (3-0). Selected topics in music. (May be repeated once for credit when topic varies.)

Prerequisite: Permission of instructor.

4391 Independent Research. A specialized course which may be directed reading or research for superior students majoring in music. (May be repeated up to 9 credit hours.)

Prerequisite: Permission of instructor.

Music (MUSI)

Class Piano

1180 Class Piano for Non-majors (0-2). Class piano for non-music majors who have little or no background in music.

1181/MUSI 1181 Class Piano I Keyboard Literacy (0-2). Keyboard literacy for B.M. with a specialization in Teacher Certification and B.M. with a specialization in Applied Performance students with no previous piano training.

1182/MUSI 1182 Class Piano II (0-3). Class piano for B.M. with a specialization in Teacher Certification and B.M. with a specialization in Applied Performance students.

Prerequisite: Successful completion of MUSI 1181 or a passing score on the Piano Placement Exam.

2181/MUSI 2181 Class Piano III (0-3). Class piano for B.M. with a specialization in Teacher Certification and B.M. with a specialization in Applied Performance students.

Prerequisite: Successful completion of MUSI 1182 or a passing score on the Piano Placement Exam.

2182/MUSI 2182 Class Piano IV (0-3). Class piano for B.M. with a specialization in Teacher Certification and B.M. with a specialization in Applied Performance students.

Prerequisite: Successful completion of MUSI 2181 or a passing score on the Piano Placement Exam.

Music (MUSI)

Instrument Classes and Diction

1183/MUSI 1183 Voice Class for Instrumentalists (0-2). A study of the vocal process and vocal techniques for singing. For B.M. with a specialization in Teacher Certification students only.

1185 Brass Methods (1-1). Nomenclature of brass instruments, teaching methods, and fundamentals of performance. For B.M. with a specialization in Teacher Certification students only.

1186 Strings Methods (1-1). Nomenclature of string instruments, teaching methods, and fundamentals of performance. For B.M. with a specialization in Teacher Certification students only.

1187 Woodwinds Methods (1-1). Nomenclature of woodwind instruments, teaching methods, and fundamentals of performance. For B.M. with a specialization in Teacher Certification students only.

1188/MUSI 1188 Percussion Methods (1-1). Nomenclature of percussion instruments, teaching methods, and fundamentals of performance. For B.M. with a specialization in Teacher Certification students only.

2183 Diction I (1-1). A study of English and Italian vocal singing diction. Emphasis will be upon application to singing and learning the IPA (International Phonetic Alphabet).

2184 Diction II (1-1). A study of French and German vocal singing diction. Emphasis will be upon application to singing and learning the IPA (International Phonetic Alphabet).

Prerequisites: Successful completion of MUSI 2183.

Music (MUSI)

Pedagogy, Literature, Bibliography, and Senior Project

3190 Vocal Literature (1/2). An overview of vocal literature including opera, art song, and oratorio.

Corequisite: Concurrent enrollment in upper division MUAP applied lessons in the major instrument.

Music (MUSI) - Pedagogy, Literature, Bibliography, Senior Project continued

3191 Instrumental Literature (1/2). Survey of standard literature in the major instrument.

Corequisite: Concurrent enrollment in upper division MUAP applied lessons in the major instrument.

4190 Vocal Pedagogy (1/2). A study of the anatomical vocal process and vocal techniques for building the stage singing voice.

Corequisite: Concurrent enrollment in upper division MUAP applied lessons in the major instrument.

4191 Instrumental Pedagogy (1/2). A study in the methods of pedagogy in the major instrument.

Corequisite: Concurrent enrollment in upper division MUAP applied lessons in the major instrument.

4192 Bibliography/Research (1/2). Foundations in the research of music. Library, database, and online resources will be examined to explore topics related to music performance.

Corequisite: Concurrent enrollment in upper division MUAP applied lessons in the major instrument.

4193 Senior Project (1/2). A written document, based on repertoire in the Senior Recital, discussing the historical, biographical, and theoretical aspects of pieces to be performed.

Prerequisite: Successful completion of MUSI 4192.

Corequisite: Concurrent enrollment in MUAP 4202 and 4199.

Nursing (NUR)

2324 Pathophysiology (3-0-0). Study of pathologic phenomena that influence disease processes, injuries and health impairments. Students learn disease and injury causes, manifestations, diagnoses and treatments.

Prerequisites: Biology 2323/2123, 2324/2124, or Health Science Professions 2301/2101, and Health Science Professions 2302/2102.

3108 Dosage Calculations in Nursing (1-0-0). This course includes reading, interpreting and solving calculation problems encountered in the preparation of medications; patient care; and conversion of measurements within apothecary, household, and metric systems.

3214 Fundamentals of Nursing Practicum (0-0-6). Using simulation and clinical experiences, students apply research-based strategies to provide safe and quality care to culturally diverse adult patients in hospitals and skilled care facilities. Grading will be either pass or fail.

Corequisites: Nursing 3414.

3220 Adult Health Nursing I Practicum (0-0-6). Students provide research-based, safe, and appropriate care to culturally diverse adult patients with common medical, surgical, or psychiatric conditions. Students use standards of care, informatics/technology, interdisciplinary communication, and error prevention techniques in a variety of settings. Grading will be either pass or fail.

Prerequisites: Nursing 3304, 3214, 3405.

Corequisite: Nursing 3410.

3301 Health Policy and Professional Issues (3-0-0). This course addresses pertinent political, social, ethical, economic and education forces that influence trends and issues impacting professional nursing and health care delivery systems in general.

3304 Health Assessment (3-0-0). Students learn to (a) perform thorough and accurate interviews, history-taking and physical assessments of culturally diverse individuals with health problems, (b) identifying and applying pathophysiologic principles across the lifespan, (c) relating findings to prevention and early detection of disease, and (d) documenting and communicating findings effectively and accurately.

3317 Psychiatric and Mental Health Nursing: Theoretical Foundations (3-0-0). This course focuses on the biological, environmental, cultural and interpersonal factors related to the mental health of individuals across the lifespan. Emphasis is placed on therapeutic communication, understanding of psychopathology, pharmacology and appropriate treatments for providing comprehensive nursing care to the client with mental health problems.

3405 Clinical Nursing Skills (4-0-0). Study of advanced skills, emphasizing patient safety and quality. Didactic theory and concepts underpin and frame hands-on practice, clinical simulations, documentation and professional communication. Competencies are validated by performance tests. Simulations involve critical-thinking applications for ethical issues and conflict scenarios.

3407 Pharmacology (4-0-0). Study of pharmacologic principles, including pharmacokinetics and drug metabolism. Students learn therapeutic uses of drugs, mechanisms of action, and adverse effects for major classes of drugs, as well as commonly used drugs in each category.

3410 Adult Health Nursing I (4-0-0). This course examines nursing care of patients with common medical, surgical, and psychiatric conditions. Students learn theories, research, and standards of care that are related to common disease processes and conditions.

Prerequisite: Nursing 3414.

Corequisite: Nursing 3220.

3414 Fundamentals of Nursing (4-0-0). Presents foundational principles of ethics, laws, regulations, professionalism, documentation, communication, quality, safety, and evidence-based care in nursing practice. Using standards of care, students learn strategies to optimize health outcomes, including therapeutic interventions and interpersonal and interdisciplinary communication.

Corequisites: Nursing 3214.

4212 Obstetric and Pediatric Nursing Practicum (0-0-6). Students provide research-based, safe, and appropriate care to culturally diverse childbearing and childrearing families and their children. Grading will be either pass or fail.

Corequisite: Nursing 4322.

4302 Leadership in Nursing Practice (3-0-0). Current theories of management, leadership, and change are explored and related to the nursing process in organizing and providing health care to individuals, families, groups, community, and society. The student will apply management theory to nursing practice.

Nursing (NUR) continued

4305 Research: An Evidence-Based Approach to Care (3-0-0). An evidence-based analytical approach to decision making and problem solving incorporating principles of leadership, collaboration, theory, research and professional practice. Students are provided the opportunity to evaluate research studies and apply the basic steps of the research process.

4307 Community-Based Health Promotion and Disease Prevention (3-0-0). This course explores health promotion and disease prevention in diverse and multi-cultural communities and vulnerable populations. Students create an evidence-based project to improve health in a community setting.

4320 Adult Health Nursing II Practicum (0-0-9). Students provide research-based, safe, and appropriate care to culturally diverse adult patients with chronic complex medical and psychiatric conditions. Students use standard of care, advanced informatics/technology, interdisciplinary communication, and error prevention techniques in a variety of settings. Grading will be either pass or fail.

Prerequisite: Nursing 3220.
Corequisite: Nursing 4411.

4322 Obstetric and Pediatric Nursing (3-0-0). This course focuses on research-based care of childbearing and childrearing families. Students learn processes, concepts, and standards of care related to pregnancy, labor, childbirth, newborns, infants, children, adolescents, and their families. Students review common acute and chronic and behavioral pediatric and obstetric conditions and complications.

Corequisite: Nursing 4212.

4325 Nursing Concept Synthesis (3-0-0). Forum for peer and faculty interaction to explore and synthesize ethical and practice issues in the senior capstone residency related to previously learned nursing concepts. The course will also include structured preparation for the professional nursing role and the NCLEX licensure exam.

Corequisite: Nursing 4404.

4404 Senior Capstone Residency (0-0-200). A clinical immersion (200 clock hours) to strengthen and broaden baccalaureate nursing skills, judgments and decision making. Supervised by a preceptor, students synthesize and apply evidence-based skills and knowledge to nursing practice. The residency may focus on one specific setting or be an experience in which a variety of settings are merged.

Prerequisite: Nursing 4320.
Corequisite: Nursing 4325.

4411 Adult Health Nursing II (4-0-0). Examines chronic and complex medical and psychiatric conditions requiring acute nursing care. Students learn theories, research, and standards of care related to complex multi-system disorders, as well as strategies affecting health behavior to improve health outcomes.

Prerequisite: Nursing 3410.
Corequisite: Nursing 4320.

Nursing (NUR)

Electives

4313 Contemporary Concepts in Patient Safety (3-0). This course presents an overview of contemporary concepts in patient safety including specific interventions for compliance with the National Patient Safety Goals. The student will explore the development and promotion of a culture of safety and minimization of risk of harm to patients in the provision of healthcare. This course provides a foundation for working with quality management tools and data collection processes to improve systems related to providing nursing care.

4330 PTSD and Implications for Nursing Practice (3-0-0). This course evaluates pertinent causes and issues that impact professional nursing care of individuals with Post Traumatic Stress Disorder (PTSD). Students analyze societal, ethical, cultural and economic factors that impact health care and professional nursing practice related to this disorder.

4333 Critical Care Nursing (2-0-3). Explores the interrelationship of human biopsychosocial dimensions of critical care nursing and examines the theoretical basis and nursing process for alterations in human functioning as consequences of critical illness and care.

Prerequisite: Nursing 3220.

4346 Communicating with the Spanish-Speaking Patient (3-0-0). This course is designed to develop basic conversational skills necessary to communicate with Spanish-speaking patients and their families. Students will acquire a basic linguistic and cultural foundation enabling them to interview and manage patients of all ages in a variety of clinical settings using Spanish; to take a history and perform a physical exam using Spanish-speaking populations.

4381 Special Topics (3-0). Selected topics in nursing. (May be repeated once for credit when the topic varies.)

Philosophy (PHIL)

1301/PHIL 1301 Introduction to Philosophy (3-0). Problems in interpretation of the nature of knowledge, reality, and value.

2305 Critical Reasoning and Logic (3-0). This course explores how values and beliefs are manifested in the language we use. By learning to evaluate problems in reasoning and the solutions to them, students become more aware of linguistic strategies and the impact of those strategies in our human experience. This course helps to assess rationally real life situations in order to avoid common mistakes and assumptions in our culture as well as in other cultures.

2306/PHIL 2306 Introduction to Ethics (3-0). This course offers an introduction to moral thought. It explores topics such as moral objectivism and relativism, what makes an action morally good or bad, and the connection between morality and happiness. In this course students learn to apply ethical systems to current moral debates.

3310 History of Ancient and Medieval Philosophy (3-0). A study of some of the most significant contributions to philosophical thought from the pre-Socratics to Aquinas. This course covers from the 6th century B.C. to the 14th century.

Philosophy (PHIL) continued

3311 History of Modern Philosophy (3-0). A study of key philosophical figures whose thoughts contributed to the development of philosophy from the 15th century to the 19th century.

3312 Introduction to Metaphysics (3-0). This introductory course will consider the traditional problems of metaphysics: personal identity, time, space, causation, freewill, universals and particulars, as well as more recent philosophical concerns such as "vagueness." The course will look at some of the most important of the philosophers who contributed to this literature, including the Empiricists Locke, Berkeley, and Hume, as well as the rationalists Descartes, Leibniz and Spinoza, up to and including more recent contemporary literature on these problems.

3313 Philosophy of Religion (3-0). This course examines some fundamental issues concerning the nature of religious belief, the relation between faith and reason, the arguments for and against the existence of God, and the problem of evil.

4311 Philosophy of Science and Technology (3-0). This course reflects on the nature of the scientific enterprise and its technological ramifications. It covers topics in the philosophy of science, including the difference between science and non-science, the nature of the scientific method, the ontological status of theoretical entities or the role of values in science. It also addresses the relation between science and technology and some fundamental topics in the philosophy of technology.

4312 Philosophy of Mind (3-0). This course explores traditional and contemporary views on the nature of mind. It covers topics such as the mind-body problem, causation of mental entities, the fitting of consciousness in a physical world, intentionality, and computational approaches to mind. Thought experiments involving robots, zombies, Martians, or brains in vats will help us reflect on our nature as beings with mental lives.

4330 Great Philosophical Figures (3-0). This course covers in depth the works of one or two prominent figures in the history of philosophy. This is a variable topic course. May be repeated once for credit when topic varies.

4331 Classical Political Philosophy (3-0). A study of Greek, Roman, and medieval thinkers from Socrates to Machiavelli. (Credit may not be earned for this course and Political Science 4331.)

4332 Modern Political Philosophy (3-0). A study of modern political thought from Hobbs to Nietzsche. (Credit may not be earned for this course and Political Science 4332.)

4333 Contemporary Political Philosophy (3-0). A study contemporary political thinkers from the beginning of the 20th Century to the present. (Credit may not be earned for this course and Political Science 4333.)

4334 Existentialist Approaches to Political Violence: Kierkegaard to Sartre (3-0). A survey of debate concerning political violence from the middle of the nineteenth century to the present. (Credit may not be earned for this course and Political Science 4334.)

4360 Topics in Contemporary Philosophy (3-0). A study of key philosophical figures whose thoughts contributed to the development of philosophy from the beginning of the 20th century.

4391 Research. Students may take this course as Directed Readings in Philosophy or as a Research Senior Thesis. This second option is strongly recommended for students intending to apply for Graduate Studies in Philosophy. May be repeated for a total of 6 semester hours credit.

4395 Capstone Seminar (3-0). Students will develop a portfolio from papers and writing samples that best represent their achievements in the discipline. The portfolio should include an introduction justifying the selection of the content material and a critical analysis of the progress made in the degree program.

Physical Activity (PA) *

A student with a physical disability which would prevent taking physical activity courses should obtain written certification of the disability from a physician. The Dean of the student's major College may grant permission for other college level work to be substituted for physical activity courses upon petition by the student.

The following physical activity courses are designed to provide the student with knowledge and application of fundamental techniques required to participate in each activity at the recreational level. (These courses may not be repeated for credit.)

1103 Wally/Volleyball (0-2).

1108 Disc Activities (0-2).

1109 Adventure Activities (0-2).

1110 Fitness Walking (0-2),

1112 Swimming (0-2).

1113 Racquetball (0-2)

1114 Tennis (0-2).

1115 Bowling (0-2).

1116 Conditioning (0-2).

1117 Team Sports (0-2).

1119 Jogging (0-2).

1120 Weight Training (0-2).

1124 Badminton/Pickleball (0-2).

1125 Special Activities (0-2). Includes a variety of non-traditional activities and sports. (May be repeated once for credit when activities differ.) Activities may include but are not limited to archery, wallyball, mountain biking, in-line skating and rugby.

* Only 8 SCH of physical activity courses may be used to meet degree requirements.

Physical Activitiy (PA) continued

1126 Strength and Conditioning (0-2).

1127 Kettlebells (0-2).

1133 Handball (0-2),

1134 Intermediate Handball (0-2).

1137 Yoga (0-2).

1139 Self-Defense: JiuJitsu (0-2)

2111 Fitness and Aquatic Activities (0-2). For Kinesiology majors only.

Physical Science (PS)

1115/PHYS 1115 Introduction to Physical Science I Laboratory (0- 2). Optional laboratory experiences to supplement Physical Science 1315.

Prerequisite: Credit for at least one college-level mathematics course.

1117/PHYS 1117 Introduction to Physical Science II Laboratory (0- 2). Optional laboratory experiences to supplement Physical Science 1317.

Prerequisite: Credit for at least one college-level mathematics course.

1315/PHYS 1315 Introduction to Physical Science I (3-0). Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. .May or may not include a laboratory.

1317/PHYS 1317 Introduction to Physical Science II (3-0). Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. .May or may not include a laboratory.

1139 Self-Defense: Jiu-jitsu (0-2). Instruction in submission techniques of Brazilian Jiu-jitsu. Students will learn specific offensive/defensive techniques to be used against an attacker along with escapes and submissions from a variety of different attacks. Participation in beginning level sparring will be learned with particular attention to safety.

3311 Physical Science Concepts I (3-0). A study of physical systems and sub-systems, interactions, variables, motion, and energy. For students pursuing teacher certification.

Prerequisite: Mathematics 1314, 1324, or 1352.

3312 Physical Science Concepts II (3-0). A study of physical systems and sub-systems, interactions, variables, optics, electricity, and magnetism. For students pursuing teacher certification.

Prerequisite: Mathematics 1314, 1324, or 1352.

Physics (PHYS)

1101/PHYS 1101 General Physics I Laboratory (0-3). Laboratory experiences designed to accompany Physics 1301. Experiments to study mechanics, thermodynamics, and waves. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite: Mathematics 1314 or equivalent.

1102/PHYS 1102 General Physics II Laboratory (0-3). Laboratory experiences designed to accompany Physics 1302. Experiments to study of electricity, magnetism, light, and atomic physics. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite: Physics 1301 or equivalent.

1103/PHYS 1103 Stellar Astronomy Laboratory (0-2). Laboratory experiences to supplement Physics 1303. Topics included are stellar magnitudes and distances, spectroscopy and spectral classification, stellar evolution, stellar motions, galaxies, and cosmology. Some night observing sessions are required.

1104/PHYS 1104 Solar System Astronomy Laboratory (0-2). Laboratory experiences to supplement Physics 1304. Topics included are planetary orbits, telescopic observations of Saturn and Jupiter, lunar features, comets, celestial coordinates, celestial sphere concepts. Some night observing sessions are required.

1191 Freshman Research. Freshman research for students selected for a freshman research grant who are majoring in physics. This course satisfies the first semester of that research.

Prerequisite: Instructor approval required.

1301/PHYS 1301 General Physics I (3-0). Study of mechanics, thermodynamics, and waves. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite: Mathematics 1314 or equivalent.

1302/PHYS 1302 General Physics II (3-0). Study of electricity, magnetism, light, and atomic physics. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite: Physics 1301 or equivalent.

1303/PHYS 1303 Fundamentals of Astronomy (3-0). An introductory study of the current knowledge and techniques of astronomy. Stellar astronomy and cosmology will be emphasized.

1304/PHYS 1304 Astronomy of the Solar System (3-0). A study of the current knowledge and techniques of astronomy as applied to our solar system. Information obtained from recent planetary probes and lunar exploration will be emphasized.

1391 Freshman Research II. Freshman research for students selected for a freshman research grant who are majoring in physics. This course satisfies the second semester of that research.

Prerequisite: Instructor approval required.

1401/PHYS 1401 General Physics I (3-3). Study of mechanics, thermodynamics, and waves. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite: Mathematics 1314 or equivalent.

Physics (PHYS) continued

1402/PHYS 1402 General Physics II (3-3). Study of electricity, magnetism, light, and atomic physics. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite: Physics 1301/1101.

2125/PHYS 2125 Fundamentals of Physics I Laboratory (0-3). Laboratory experiences designed to accompany Physics 2325. Emphasis is placed on experiments utilizing the fundamental concepts of mechanics and thermodynamics. Concurrent enrollment in, or credit for, Mathematics 2413 is required.

2126/PHYS 2126 Fundamentals of Physics II Laboratory (0-3). Laboratory experiences designed to accompany Physics 2326. Emphasis is placed on experiments utilizing the fundamental concepts of electricity, magnetism, and optics. Concurrent enrollment in, or credit for, Mathematics 2413 is required.

2325/PHYS 2325 Fundamentals of Physics I (3-0). A comprehensive course with emphasis placed on the capacity to utilize the fundamental concepts of mechanics and thermodynamics in the solution of problems. Concurrent enrollment in, or credit for, Mathematics 2413 is required.

2326/PHYS 2326 Fundamentals of Physics II (3-0). A comprehensive course with emphasis placed on the capacity to utilize the fundamental concepts of electricity, magnetism, and optics in the solution of problems. Concurrent enrollment in, or credit for, Mathematics 2413 is required.

2371 Topics in Astronomy (3-0). An overview of relevant and current topics related to modern astronomy such as the beginnings of this field of science, NASA and the development of the space program, modern telescope design and operation, and the latest discoveries and research.

Prerequisites: Physics 1303, 1304.

2425/PHYS 2425 Fundamentals of Physics I (3-3). A comprehensive course with emphasis placed on the capacity to utilize the fundamental concepts of mechanics and thermodynamics in the solution of problems.

Prerequisite: Credit for or parallel registration in Mathematics 2413.

2426/PHYS 2426 Fundamentals of Physics II (3-3). A comprehensive course with emphasis placed on the capacity to utilize fundamental concepts of electricity, magnetism, and optics in the solution of problems.

Prerequisites: Physics 2325/2125 and credit for or parallel registration in Mathematics 2414.

3170 Observational Methods in Astronomy (1-0). Modern techniques used by astronomers to collect and analyze data from various sources. Topics will include instrument design and operation, processing of astronomical images, and data analysis using small and large datasets.

Prerequisites: Mathematics 2312 or 2412, Physics 1303, 1304.

3251 Advanced Physics Laboratory I (0-6). Advanced laboratory experiences related to Modern Physics and Nuclear Physics.

Prerequisites: Physics 2326/2126, and credit for or parallel registration in Physics 3361.

3252 Advanced Physics Laboratory II (0-6). Advanced laboratory experiences related to Optics and Electronics.

Prerequisites: Physics 2326/2126, Physics 3251.

3301 Mathematical Methods for Scientists and Engineers (3-0). An introduction to specific mathematical topics as applied to standard problems in science and engineering.

Prerequisite: Credit for or parallel registration in Mathematics 3415.

3310 Computational Physics (3-0). An introduction to using numerical methods and computational techniques to solve physics problems, including numerical solutions to differential equations, Monte Carlo simulations, and graphical analysis. Case studies are largely drawn from the material presented in the introductory physics courses.

Prerequisites: Physics 2326/2126 and Computer Science 1314.

3331 Mechanics (3-0). Vectors, Newtonian mechanics, noninertial reference frames, central forces, systems of particles, rigid bodies, Lagrange's equations, and oscillating systems.

Prerequisites: Physics 2326/2126, and credit for or parallel registration in Physics 3301.

3332 Thermal and Statistical Physics (3-0). A study of thermodynamics and statistical methods in physics with applications from classical and quantum physics.

Prerequisites: Physics 2326/2126, and credit for or parallel registration in Physics 3301.

3340 Electronics (3-0). A study of basic electronics and electronic principles and their uses in science.

Prerequisites: Physics 2326/2126.

3341 Electricity and Magnetism (3-0). Maxwell's equations, electrostatics, magnetostatics, and electromagnetic waves.

Prerequisites: Physics 3301, and credit for or parallel registration in Physics 3361 or 3461.

3344 Digital Electronics (3-3). A study of the behavior of digital logic circuit elements, with an emphasis on applications in research instrumentation, industrial controls, and computer design.

Prerequisite: Computer Science 2336 or 3304 or Physics 2326/2126.

3361 Modern Physics (3-0). An introduction to special relativity, atomic physics, and nuclear physics.

Prerequisites: Physics 2326/2126 or equivalent; and Mathematics 2414 or equivalent.

3371 Astrophysics (3-0). Fundamental physical concepts applied to observational and theoretical astronomy. Emphasis will be on conceptual understanding of topics such as the life cycle of stars and the structure of the universe.

Prerequisites: Mathematics 2312 or 2412, Physics 1303, 1304, and 1301/1101 or 2326/2126.

Physics (PHYS) continued

4071 Internship: 1 to 6. Supervised internship with an approved cooperating business or government entity. May be repeated for a total of twelve credit hours.

Prerequisite: Consent of the department chair.

4091 Research: 1 to 6. Supervised research with a faculty member in physics. May be repeated for a total of twelve credit hours.

Prerequisite: Consent of the department chair.

4191, 4291, 4391 Research. Individual research problems for superior students majoring in physics. (May be repeated for a total of six semester credit hours.)

Prerequisite: Junior standing.

4300 Introduction to Geophysics (3-0). This course is an introduction to the geophysical methods used to explore the Earth's subsurface with an emphasis on application. Topics include seismicity, ground penetrating radar, magnetics, gravity, and resistivity. (Credit may not be earned for this course and Geology 4300.)

Prerequisites: Geology 1303/1103, Mathematics 2413.

4352 Optics (3-0). A study of geometrical and physical optics with emphasis on applications to physics and related fields of study.

Prerequisites: Physics 2326/2126, and credit for or parallel registration in Physics 3301.

4361 Nuclear Physics (3-0). A study of the production and detection of nuclear radiation and its interaction with matter.

Prerequisites: Physics 2326/2126, and credit for or parallel registration in Physics 3301.

4363 Quantum Mechanics (3-0). A study of the fundamental principles of quantum theory with emphasis on both the Schroedinger and matrix formulations.

Prerequisites: Physics 3301, and credit for or parallel registration in Physics 3361 or 3461.

4381 Special Topics (3-0). A course dealing with selected topics in physics. May be repeated once for credit when the topic varies.

Prerequisite: Junior standing.

Political Science (POLS)

2107/GOVT 2107 Federal and Texas Constitutions (1-0). A study of the United States and Texas Constitutions. Grading will be either pass or fail.

Prerequisite: By permission only. Enrollment limited to students who have already completed a minimum of 6 SCH of Political Science courses but have not satisfied the requirement for a study of the federal and state Constitutions.

2304/GOVT 2304 Introduction to Political Science (3-0). This course is an introduction to the study of political things. Students will learn the differing claims about the character of political knowledge and the various approaches and methodologies through which such knowledge is sought. Attention will be paid to the promises and limitations of applying the modern scientific method, so successful in the study of the material world, to distinctly human problems in all their complexity.

2305/GOVT 2305 Federal Government (Federal Constitution and Topics) (3-0). Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

2306/GOVT 2306 Texas Government (Texas Constitution and Topics) (3- 0). Origin and development of the Texas constitution, structure and powers of state and local government, federalism and intergovernmental relations, political participation, the election process, public policy, and the political culture of Texas.

Satisfactory completion of Political Science 2305 and 2306 or equivalent credit is prerequisite to advanced political science courses (3000- and 4000- level courses).

3302 American Political Parties and Interest Groups (3-0). This course studies the development of the American political party system and organized interest groups with a focus on national and state-level organization, and their roles in campaigns, elections, public opinion, and voter mobilization. Additionally, this course will examine the influence of political parties and interest groups within our political institutions and on the policy-making process.

3304 American Political Development (3-0). This course will delve into the basic disputes over political power and its exercise in the American political system, ranging from 1776 to the present day. Using primary sources such as debates, speeches, and Supreme Court opinions, this course will move through the disputes over fundamental principles, governing institutions, civil rights and liberties, and the basic arguments regarding economic, social, and foreign policy.

3305 Public Administration (3-0). A study of the fourth branch of government; its organization, personnel, finance, and methods of policy formation, with an analysis of problems accompanying an expanding bureaucracy.

3306 Non-profit Management (3-0). Public policy continues to expand beyond the public sector with non-profit organizations increasingly administering public funds and supervising programs that impact the community and society. The course will provide students with an overview of the challenges facing non-profit management from a public policy perspective. Students will learn all aspects of the non-profit management process.

3307 The U.S. Congress (3-0). This course is an analysis of the politics and legislative process of the U.S. Congress. Topics include policy-making, recruitment, party leadership, structure and influence of the committee system, and the legislative branch's relationship with the presidency, Supreme Court, mass media, and voters.

3308 The American Presidency (3-0). An in-depth examination of the American presidency and the Chief Executive's formal and informal roles within the American political system. Emphasis will be given to the evolution of the presidency, its power and constraints, organization of the White House, and the dynamics of the office including presidential character, governing style, and public conceptions of the office. This course will also address the effect the mass media and public opinion has had on the presidency and how the Oval Office has responded.

Political Science (POLS) continued

3309 The Supreme Court and the Judicial Process (3-0). This course will study of the United States Supreme Court as a political and legal institution and as the third branch of the federal government as established by the U.S. Constitution. It will also cover the federal and state court systems, the processes by which they operate, and the influence they have on public policy.

3315 Political Economy of Latin America (3-0). A study of the political economy of Latin America, especially with regard to the theory and practice of how economic motives affect political decisions and how most political decisions have economic repercussions, both domestically and in Latin America. This course reviews and explores the key themes of Latin America's relationship with the global political economy and raises questions about the nature of state action in Latin American countries.

3316 American Politics and Mass Media (3-0). This course is an overview of the influence of the mass media on the American political system. Specifically, it examines how the press defines what is newsworthy, shapes public opinion, affects the political behavior and decision-making of elected officials, and has become the "fourth branch" of government.

3317 Politics and Administrative Strategies (3-0). This course focuses on topics such as political rhetoric, strategic communications, agenda-setting, framing, priming, and selective exposure. Attention will also be given to the role of traditional and digital media in conveying political information to the public, political advertising, campaign strategies, and the management of political information during times of crisis or political scandals.

3331 American Political Thought I (3-0). This course is a study of the thought and rhetoric of American political figures during critical moments in American history from the colonial period through the Civil War. Students will examine the relationship between the political actions they initiated.

3332 American Political Thought II (3-0). This course is a study of the thought and rhetoric of American political figures during critical moments in American history from the Civil War to the present. Students will examine the relationship between the political actions they initiated.

3341 Comparative Political Systems (3-0). A comparative study of modern post-industrial societies and the third world. The course content will alternate between the analysis of the major political systems in Europe and the study of developing areas such as Africa, Asia, and Latin America. (The course may be repeated once for credit when the topic varies.)

3348 Model Organization of American States (3-0). Course prepares students for participation in a Model Organization of American States simulation. Students are assigned particular countries for which they prepare position papers, resolutions and participate in a Model Organization of American States meeting in a competition against schools from Texas, Mexico and beyond. The course stresses historical and contemporary hemispheric issues and allows students to gain knowledge of contemporary Latin America.

3350 Religion and Politics (3-0). Theoretical perspectives for and against religion's compatibility with secular democratic society are assessed. The empirical backdrop for these competing theories is scrutinized in light of select statistical evidence. The effects of religious belief on political participation rates, democratic attitudes, and trust in scientific consensus receive particular focus.

3351 International Relations (3-0). A study of international relations since World War II, which examines changing global economic and political systems and important contemporary international issues.

4301 The Constitution and Constitutional Law (3-0). This course looks at the U.S. Constitution and how it has structured political life in America for more than 225 years. Students examine the principles of *separation of powers* and *federalism*, exploring the claims of the authority of each of the three "departments of power"—legislative, executive, and judicial—as well as the division of power between the national and state governments. In addition to reading the Constitution itself, students will study the relevant opinions of the Supreme Court and other insightful or authoritative commentaries on the Constitution.

4302 Constitutional Rights and Liberties (3-0). This course studies the specific limits placed on governmental power in the "bill of rights" and other sections of the Constitution, as well as the limits derived from less specific phrases in the 14th Amendment. These *rights* and *liberties* include the freedoms of religion and conscience, speech and press, the right to keep and bear arms, the rights of property, the procedural rights of the criminally accused, as well as the rights and liberties found in the ideas of "due process" and "equal protection" of the laws. The Supreme Court and its opinions are the focus of this course, but additional commentary will also be consulted.

4311 Urban Problems and Public Policy (3-0). A study of issues and research areas in selected urban problems and the development of public policy in response to these problems.

4331 Classical Political Philosophy (3-0). A study of Greek, Roman and medieval thinkers from Socrates to Machiavelli. (Credit may not be earned for this course and Philosophy 4331.)

4332 Modern Political Philosophy (3-0). A study of modern political thought from Hobbs to Nietzsche. (Credit may not be earned for this course and Philosophy 4332.)

4333 Contemporary Political Philosophy (3-0). A study of contemporary political thinkers from the beginning of the 20th Century to the present. (Credit may not be earned for this course and Philosophy 4333.)

4334 Existentialist Approaches to Political Violence: Kierkegaard to Sartre (3-0). A survey of debate concerning political violence from the middle of the nineteenth century to the present. (Credit may not be earned for this course and Philosophy 4334.)

4351 United States Foreign Policy (3-0). An examination of the processes of formulating and conducting United States foreign policy, the factors that influence foreign policy, and the objectives and instruments of such policy.

Political Science (POLS) continued

4353 International Relations of the Western Hemisphere (3-0). A study of the evolving international relations in the Western Hemisphere, especially with regard to political, economic, and security issues pertinent to U.S. foreign policy and foreign relations in the region.

4361 Research in Political Science: Capstone (3-0). Research in Political Science prepares students to understand different methods of conducting research and to produce original work of their own. Students will learn current trends in the discipline and complete a substantive paper using original research and ideas.

4371 Internship in Political Science. The student will be assigned to work in a unit of government. A research paper dealing with the internship experience written under the direction of a faculty member will be required.

Prerequisites: Political Science major, junior/senior status, and departmental approval.

4381 Special Topics (3-0). A course dealing with selected topics in political science. (May be repeated once for credit when topic varies.)

Prerequisite: Junior standing.

4391 Research. A specialized course which may be directed reading or research for exceptional students majoring in political science.

4671 Practicum in Politics: Washington, D.C. Internship Program. Supervised internship with government offices and agencies, including primarily congressional and legislative offices in Washington, D.C. Requires approval for participation in university program by the ASU Office of the President.

Psychology (PSY)

2110 Applying Your Degree (1-0). Students will explore a variety of career opportunities that can be pursued after obtaining a degree in Psychology. Topics may include: resume writing, interviewing skills, conducting a job search, and how to tailor skills learned in the degree to qualities sought by employers.

2301/PSYC 2301 General Psychology (3-0). Introduction to the scientific study of factors underlying behavior. In addition to the physiological bases of behavior, other factors such as intelligence, learning, motivation, emotion, and perception are covered.

2304 Developmental Psychology (3-0). A study of psychological, social, cultural, physical and emotional factors in personality development and behavior. Emphasis will be given to developmental changes from conception through death.

Prerequisite: Psychology 2301 or 2315.

2315/PSYC 2315 Psychology of Adjustment (3-0). A study of the dynamics of human behavior from a life adjustment approach. Representative topics include stress management, understanding personality, love, marriage, human sexuality, and death and bereavement. Credit may not be applied to a major or minor in psychology.

2319/PSYC 2319 Social Psychology (3-0). A survey of environmental forces as they affect individual and group behavior. Topics to be studied include subcultural influences, group dynamics, attitude change, interpersonal attraction, prosocial behavior and health.

Prerequisite: Psychology 2301 or Sociology 1301.

2321 Research Methods and Statistical Analysis (3-0). A survey of experimental and non-experimental methods of gathering data as well as the statistics required to analyze this data. Analyses include measures of central tendency and variability, correlation, regression, standard scores, t-tests, analysis of variance, and chi square.

3301 Experimental Psychology (3-0). This course seeks to provide an integrated blend of content and methodology in representative areas of experimental psychology, with methods discussed in the context of actual research. Some representative areas include psychophysics, perception, learning, memory, problem solving, and human factors.

Prerequisite: Psychology 2301.

3303 Learning and Memory (3-0). A study of the principles of learning and memory and how they relate to understanding behavior. The course will review theories of classical and instrumental conditional conditioning, biological constraints on learning and memory, memory formation, thinking and language.

Prerequisite: Psychology 2301.

3307 Motivation (3-0). A study of theories and research on biological and acquired motives in humans. Topics include emotions, hunger, sex, aggression, achievement, affiliation, and power.

Prerequisite: Psychology 2301.

3309 Industrial-Organizational Psychology (3-0). A study of the methods and principles of psychology applied to work situations. Emphasis will be placed on leadership, communication, job satisfaction, performance evaluation, consumer problems, and productivity.

Prerequisite: Psychology 2301.

3311 Psychological Testing (3-0). A survey of a wide variety of both group and individual psychological tests. Students will be introduced to personality, intelligence/aptitude, vocational interest, and achievement instruments that are frequently used. Technical considerations associated with test validity, reliability, objectivity, and standardization will be considered.

Prerequisites: Psychology 2301, 2321 (or equivalent).

3313 Introduction to Counseling Psychology (3-0). An introduction to the history and profession of counseling and a survey of the major counseling theories.

Prerequisite: Psychology 2301.

3315 Child Psychology (3-0). A study of physical, cognitive and social development from birth through childhood. Topics include childbirth, bonding, parenting styles, abuse, divorce, day care, and the role of genetic and environmental factors in the development of individual differences and similarities.

Prerequisite: Psychology 2301.

Psychology (PSY) continued

3317 Applied Psychology (3-0). This course provides a survey of the career fields in psychology and the skills needed to select and pursue them. Career options will be considered at the bachelor's, master's and doctoral levels. Also, the steps involved in applying to graduate school will be addressed.

Prerequisite: Psychology 2301.

3319 Adolescent Psychology (3-0). An examination of the physical, cognitive, and social development of adolescents, as well as the influence of contextual factors. Includes critical thinking about developmental processes, theories, concepts, and research.

3321 Intermediate Statistics and Research Methods (3-0). Further experience with research design and the analysis, interpretation, and presentation of data. Students will gain experience with statistical software for data analysis.

Prerequisites: Psychology 2301, 2321.

3323 Cultural Psychology (3-0). A study of the role of cultural norms in psychological and behavioral diversity. Topics include immigration, globalization, and the influence of socio-cultural forces on similarities and differences in human thought, emotion, personality, and behavior.

Prerequisite: Psychology 2301.

3325 Psychology of Diversity (3-0). An introduction to theories and empirical research concerning stereotypes, prejudice, and discrimination. This course explores a variety of perspectives regarding stigmatized groups and analyzes how relevant theories/perspectives are depicted in popular films.

Prerequisite: Psychology 2301.

3327 Psychology of Leadership (3-0). An examination of classic and contemporary theories of leadership, including their evolution and an analysis of strengths and weaknesses. Applications are made to real-world leaders and a critique of their effectiveness. Topics include leadership styles, personality, self-analysis, and perspectives of leadership across diverse individuals, groups.

Prerequisite: Psychology 2301.

3329 Educational Psychology (3-0). An introduction to the field of educational psychology, including the theoretical and applied aspects of learning, motivation, human development, personality, and evaluation. Information from different branches of psychology are integrated to fit a variety of contexts, such as human services, education, occupational, legal, medical, and recreational.

Prerequisite: Psychology 2301.

4191 Research. Practice in planning, conducting, and/or reporting laboratory, field, or library research. (May be taken three times for credit.)

Prerequisite: Psychology 2301.

4301 Personality (3-0). A study of the theories of personality formation and development. Considers the individual as a social and biological organism and relates both sets of factors to the development of personality.

Prerequisite: Psychology 2301.

4303 History of Psychology (3-0). A study of the historical origins of psychology, the effect of science, contributing schools of psychology, and psychological theories.

Prerequisite: Psychology 2301.

4305 Abnormal Psychology (3-0). This course is designed to provide an understanding of normal versus abnormal behavior. In addition, the characteristics, etiology, and treatment of psychological disorders affecting adults will be reviewed.

Prerequisite: Psychology 2301.

4309 Cognition (3-0). A study of higher level intellectual processes, including attention, knowledge representation, problem solving, decision making, expertise, and language.

Prerequisite: Psychology 2301.

4313 Behavioral Neuroscience (3-0). A study of the interaction between the nervous systems and behavior. Representative topics include the structure and function of the nervous system, learning and memory, neurological/neuropsychiatric and language disorders, sleep and waking, aggression and effects of abused drugs.

Prerequisite: Psychology 2301.

4319 Drugs and Behavior (3-0). A study of the various drugs of abuse, both legal and illegal. Consideration of drug use and misuse, the political and social ramifications, and drug abuse prevention and treatment.

Prerequisite: Psychology 2301.

4321 Seminar in Psychological Research (3-0). A step-by-step guide to conducting research on contemporary topics in Psychology. Students will develop hypotheses, design a study, collect data, statistically analyze the data, interpret the results, and write and present a research report.

Prerequisites: Psychology 2301, 2321, 3321.

4323 Advanced Social Psychology (3-0). An in-depth study of selected topics in social psychology, emphasizing classic and contemporary readings.

Prerequisite: Psychology 2319 or Sociology 2326.

4327 Human Sexuality (3-0). Provides a biopsychosocial perspective on human sexuality across the lifespan. Topics include the male and female sexual anatomy/physiology, multicultural perspective of sexuality, sexual behavior, sexual orientations, sexuality across the life cycle, the prevention and treatment of sexuality problems, and social problems related to human sexuality.

4329 Evolutionary Psychology (3-0). A broad survey of relevant areas of study in the application of evolutionary theory to psychology and human behavior. Appropriate for students in psychology and the biological sciences.

4331 Psychology of Aging (3-0). A study of psychological perspectives of aging and applications. Topics include cognitive and biological changes, psychopathologies and physiological maladies that are unique to this population, healthy ways to manage this developmental stage, and intervention strategies.

Prerequisite: Psychology 2301.

Psychology (PSY) continued

4332 Applying Cultural Awareness (3-0). This course explores cultural awareness by focusing on how we perceive and understand individuals with different backgrounds, viewpoints, and experiences. Course material will emphasize diversity and focus on examining the role that thoughts, beliefs, and behaviors play in how we interact with people in both the personal and professional arenas.

4333 Environmental Psychology (3-0). An interdisciplinary field focusing on the reciprocal relationship between environment and humans. The field defines environment broadly, encompassing natural, built, learning, and informational environments, as well as social settings. Topics may include psychological theories and research findings about the current environmental state, sustainability, design, ergonomics, behavior modification, health, motivation, stress and more.

4334 Forensic Psychology (3-0). A survey of the application of psychological theory, methods, and principles to address legal matters and improve the legal system. Topics may include interrogation and confessions, eyewitness memory and identification, competency to stand trial, juror selection and decision-making or other legal topics informed by psychological research.

4335 Health Psychology (3-0). A study and application of contemporary theories and research in health psychology. Emphasis is on the interplay of biological, psychological, and social factors in relation to illness and wellness. Topics include pain and its management, behavioral factors in cardiovascular disease, weight management, alternative methods of healing, and connections between stress and disease.

Prerequisite: Psychology 2301.

4371, 4671 Internship in Psychology. The student will be assigned to work in a human service agency. (Psychology 4371 may be repeated once.)

Prerequisite: Completion of 15 semester credit hours in undergraduate psychology, department selection.

4381 Special Topics (3-0). Selected topics in psychology. (May be repeated once for credit when topic varies.)

Prerequisite: Junior standing.

4391 Research. A specialized course which may be directed reading or research for superior students majoring in psychology. (May be repeated once for credit.)

Prerequisite: Junior standing.

Range and Wildlife Management (RWM)

2321 Forage Production and Utilization (3-0). A study of the classification, distribution, production, and utilization of rangeland forages as related to wildlife and livestock production systems.

2322 Rangeland Soil Science (2-2). An introduction to the nature and properties of soils. Application of science and technology to the use of this natural resource and the roles in the environment.

3331 Principles of Range Management (2-2). Application of ecological principles in the management of rangelands for sustained production.

3332 Range Improvement (2-2). Principles and practices of range improvements including weed and brush control, revegetation, fertilization, and grazing systems.

Prerequisite: Range and Wildlife Management 3331.

3335 Range Plants (2-2). A study of the important range plants and range ecosystems of Texas and other western states. The identification, distribution, ecological and economic value of introduced and native species will be emphasized.

4331 Wildlife Management Technique (2-2). Students will be introduced to a variety of wildlife management techniques and equipment used to manage a host of wildlife species ranging from insects and reptiles to small mammals, birds, and big game. Techniques studied will include population survey methodology, animal capture and handling, harvest analysis of game species, habitat assessment, aging, field necropsy and sample extraction techniques, as well as study and recognition of the more common wildlife diseases.

4333 Range Wildlife Management (2-2). Introduction to the ecology and management of wildlife populations, integration of other resource demands with that of wildlife.

4334 Big Game Ecology and Management (2-2). A study of the distribution and life histories of North American big game species with a focus on those major games species, including exotic game species, found in Texas.

4336 Range Inventory and Research (3-0). Techniques of investigating current research topics with additional instruction on vegetation sampling and diverse plant species population inventory considerations.

4337 Natural Resource Policy and Law (3-0). This course will introduce students to the history, processes of making and implementing federal and state laws, importance of laws and use of laws in range and wildlife management. The course will analyze the property and constitutional underpinnings of state and federal wildlife laws, look at reasons for the enactment of a law, address how laws influence natural resource management and policy, and use case laws as examples for the structuring of federal and state regulations of rangelands and wildlife. The course will also focus on a few federal statutory laws, including the Endangered Species Act, Lacey Act, Migratory Bird Treaty Act and Taylor Grazing Act. Additionally, the course considers wildlife law in other countries compared to the North American Model of Wildlife Conservation.

4381 Special Topics (3-0). Selected topics in range management or wildlife management. May be repeated once for credit when topic varies.

4391 Research. Individual research problems. (May be repeated to a total of six semester hours credit.)

Prerequisite: Junior standing.

Range and Wildlife Management (RWM) continued

4435 Plant Taxonomy (3-3). In this course, students will uncover historical roots and principles of plant classification. This course integrates the study of diverse groups of plants, including non-vascular plants (mosses and liverworts), seedless vascular plants (ferns), gymnosperms, and culminates in the exploration of the vast diversity of angiosperms. Students will engage with both classical concepts and new techniques, learning about modern molecular techniques and newest advances in computational sciences in plant identification. (Credit may not be earned for this course and Biology 4435.)

Reading (RDG)

2306 Teaching Reading Using Children's Literature (3-0). A study of children's literature, its many genres, and the role these books play in a diverse society and classroom. Metacognitive and response strategies suitable for K-8 learners are emphasized. Extensive reading is required.

3332 Reading in the Content Areas (3-0). An examination of reading and writing processes across the content areas with an emphasis on planning instruction, implementing strategies, and selecting materials for the elementary classroom, as well as on vocabulary, fluency, and comprehension. A field-based experience is required.

Prerequisite: Education 2302 with a minimum grade of "C". (May not be taken concurrently.)

3335 Reading Development in the Elementary School (3-0). An understanding from birth through the elementary grades of reading development, methods of reading instruction, and instructional sequence. Emphasis will be placed on phonological awareness, phonics/word analysis and decoding, and oral language. A field-based experience is required.

Prerequisites: Education 2302 with a minimum grade of "C". (May not be taken concurrently.)

3336 Teaching Reading in the Language Arts Classroom (3-0). A study of the integrated language arts process in the elementary classroom. Focus on effective teaching of the language arts modes of listening, speaking, reading, writing, viewing, and representing. This course will emphasize the relationship between decoding and encoding. A field-based experience is required.

Prerequisites: Education 2302 and Reading 2306 with a minimum grade of "C". (May not be taken concurrently.)

3339 Reading in the Middle School Classroom (3-0). Examines reading and writing processes, the development of reading and writing abilities and skills, theories and models of reading, assessment, remedial strategies, planning, and materials for the 4-8 literacy learning environment. This course will emphasize phonological awareness, phonics/word analysis and decoding, vocabulary, fluency, and comprehension. (Credit may not be earned for this course and Reading 3335.)

Prerequisites: Education 2302 with a minimum grade of "C". (May not be taken concurrently.)

4301 Assessment and Evaluation of Reading and Writing (3-0). An examination of appropriate assessment and evaluation strategies for the classroom teacher to utilize. Both formal and informal assessment measures are introduced for evaluation of student performance and planning instruction. This course will assess phonological awareness, phonics/word analysis and decoding, vocabulary, fluency, and comprehension.

Prerequisites: Reading 3332, 3335 or 3339, 3336 all with a grade of "C" or better.

4303 Reading and Language Arts: Instructional Strategies for the Elementary and Middle School Teacher (3-0). This field-based course emphasizes the integration of research and theories concerning the processes of learning reading and language arts knowledge and skills. This course is the capstone field-based experience in reading/language arts prior to the clinical teaching (student teaching) experience. Application of phonological awareness, phonics/word analysis and decoding, vocabulary, fluency, and comprehension will be emphasized in this course. A field-based experience is required.

Prerequisites: Reading 3332, 3335 or 3339, 3336 all with a grade of "C" or better. Admission to the Teacher Education Program (TEP) is required.

4320 Reading in the Secondary School Content Areas (3-0). A study of reading skills, learning and study and higher level thinking skills development in the content areas. Includes determining the readability of curriculum materials, adapting learning experiences, planning curriculum to accommodate student diversity in reading ability, and assessing student learning. A field-based experience is required.

Prerequisite: Admission to the Teacher Education Program.

Russian (RUSS)

1301 Russian I (3-0). Introduction to basic structures and usage of modern Russian. The emphasis is on development of basic Russian vocabulary and grammar, accuracy of pronunciation, the acquisition of listening, speaking, reading, and writing skills, and the introduction of cultural elements.

1302 Russian II (3-0). A sequel to Russian 1301.

Prerequisite: Russian 1301 or equivalent.

2311/RUSS 2311 Russian III (3-0). An expansion of the language skills acquired in Russian 1301 and 1302. Strengthening of basic structures and introduction of more complex structures. The course will increase accuracy in listening, speaking, reading and writing Russian, and promote knowledge of cultural background.

Prerequisite: Russian 1302 or equivalent.

2312/RUSS 2312 Russian IV (3-0). Fourth-semester capstone course organized around grammatical topics and cultural issues. Review and expansion of structural aspects, reading and discussion of selected Russian texts, and continued practice in composition and conversation.

Prerequisite: Russian 2311 or equivalent.

3338 Comparative Cultural Studies: Germany and Russia in the 20th Century (3-0). A comparative cultural study of Germany and Russia in the long 20th century, from Imperial Germany and Russia to the fall of the Berlin Wall and the advent of Perestroika. (Credit may not be earned for this course and German 3338.) Russian minors should take Russian 3338 and Russian 3339 simultaneously.

Russian (RUSS) continued

3339 French, German and Russian Film in 1920's (3-0). An overview of the different film genres that emerged in France, Germany and Russia during the 1920's with particular emphasis on Russian documentary, German expressionist, and French impressionist and surrealist film. (Credit may not be earned for this course and French 3339 or German 3339.) Russian minors should take Russian 3338 and Russian 3339 simultaneously.

4071 Internship in Russian: Credit 1 to 6. An internship experience with advanced assignments in Russian. (Russian 4071 may be repeated with a limit of 6 hours total.)

Prerequisite: 60 hours - including current semester credit hours, a 2.50 or higher cumulative GPA at the time of application, and department permission.

4381 Special Topics (3-0). Selected topics in Russian. May be repeated once for credit when topic varies.

Prerequisite: Russian 2312 or equivalent, or consent of department chair.

4391 Research. A specialized course providing advanced study for superior students in Russian. (May be repeated once for credit.)

Social Work (SWK)

2307 Introduction to Social Work (3-0). An overview of the history and development of social work as a profession. The course is designed to foster a philosophical, historical, and critical understanding of the social work profession, social work values and ethics, and fields of practice.

2316 Social Work Theory and Practice (3-0). This practice course uses an approach based on the stages of the helping process. It is designed to link theory and beginning-level generalist social work practice. The content in this course provides opportunity for students to experience practice situations through role plays and other experiential activities. These activities are designed to help students understand the very important relationship between theoretical orientation and stages of the helping process.

3306 Social Work with Groups (3-0). An introduction to group theory and practice. Topics include group formation and development, stages of the group process, ethics and legal issues relating to group practice, and group work with diverse populations.

Prerequisite: Social Work 2307.

3307 Human Behavior in the Social Environment I (3-0). The biopsychosocial science base of social work practice. Includes theories of biological, social, cultural, psychological, and spiritual development within the context of the social environment through the life course. Focuses on the critical evaluation and application of theories and knowledge to person-environment transactions.

Prerequisites: Social Work 2307 and admission into the Social Work degree program or a declared Social Work minor.

3309 Social Work Practice I (3-0). The introduction to social work practice with individuals, couples, families and small groups, including the use of communication skills, supervision, and consultation. Focuses on engagement, assessment and evaluation, planning for service delivery, implementing empirically based interventions, and evaluating outcomes.

Prerequisites: Social Work 2307 and admission into the Social Work degree program.

Prerequisite or Corequisite: Social Work 3307.

3311 Human Behavior in the Social Environment II (3-0). The biopsychosocial science base of social work practice. Includes a critical analysis of the interactions between the person and the dynamic nature of groups, organizations, communities, society, and economic systems. Focuses on multiple dimensions of the person and the range of social systems in which they live.

Prerequisites: Social Work 3307, 3309.

3313 Social Work Practice II (3-0). The introduction to social work practice with large groups, organizations, and communities, including the use of communication skills, supervision, and consultation. Focuses on engagement, assessment and evaluation, planning for service delivery, implementing empirically based interventions, and evaluating outcomes.

Prerequisites: Social Work 3307, 3309.

3315 Social Work Policy and Practice (3-0). Provides the knowledge, skills, and values to apply social welfare policy and practice. Focuses on policy analysis, implementation of policy to achieve social and economic justice, and the impact of social policy on the social work profession.

Prerequisites: Social Work 2307 and admission into the Social Work degree program.

3355 Research Methods (3-0). Presentation of the methods used in scientific inquiry and program evaluation; knowledge of how scientific evidence informs social work practice and how social work practice informs scientific inquiry is of primary concern. Focuses on the skills related to conducting research and practice evaluation. Ethical, cultural, and professional value considerations in the research process are emphasized.

Prerequisites: Social Work 2307 and admission into the Social Work degree program.

4303 Social Work and Children/Families (3-0). Provides knowledge and skills necessary for generalist social work practice relating to children and families among diverse populations. Topics include the changing dynamics of families, social problems faced by children and families, counseling and intervention programs for children and families, child abuse and neglect, child and family advocacy, and the role of the social worker in foster care adoption, and the courts.

Prerequisite: Social Work 2307.

4305 Social Work and Mental Health (3-0). Provides knowledge and skills necessary for generalist social work practice relating to people with mental illness. The role and function of the social worker in mental health settings is of primary concern. Promotes the application of social work values, ethics, and standards in work with mentally ill people from diverse backgrounds.

Prerequisite: Social Work 2307.

Social Work (SWK) continued

4307 Social Work and Aging (3-0). Provides a biopsychosocial perspective on the functioning of older adults. Topics cover the various aspects of geriatric social work including biopsychosocial changes associated with aging, assessment and intervention with the elderly, substance abuse and the elderly, group work with the elderly, issues surrounding spirituality, abuse and neglect, family and social support, and issues relating to death and dying.

Prerequisite: Social Work 2307.

4309 Social Work and Health Care (3-0). Provides knowledge and skills necessary for generalist social work practice in a hospital and other health care settings with people from diverse backgrounds. Topics include an introduction to evidence-based practice in health care environments, medical terminology, and biopsychosocial factors relating to physical illness and disease. Promotes the application of social work values, ethics, and standards in physical health care.

Prerequisite: Social Work 2307.

4317 Social Work and Case Management (3-0). An in-depth analysis of the case management process from a generalist perspective. Focuses on evidence-based practices in contemporary case management, clarification of practitioner attitudes, cultural competence, effective communication skills, client assessment, service plan development, case documentation, the monitoring of services and treatment, and case termination.

Prerequisite: Social Work 2307.

4321 Social Work and Domestic Violence (3-0). This course is designed to provide the student with a broad knowledge of issues and methods relevant to domestic violence (spousal violence; intimate partner violence). The course content is designed to provide the participant with a foundation of understanding of domestic violence dynamics and a knowledge base for working with those affected by domestic violence.

4326 Social Work and Addictions (3-0). This course develops knowledge, assessment, and intervention skills, beginning competence necessary for working with individuals experiencing problems with the use of psychoactive substances and other mood altering behaviors.

4327 Social Work and Human Sexuality (3-0). Provides a biopsychosocial perspective on human sexuality across the lifespan. Topics include the male and female sexual anatomy/physiology, multicultural perspective of sexuality, sexual behavior, sexual orientations, sexuality across the life cycle, the prevention and treatment of sexuality problems, and social problems related to human sexuality.

4328 Correctional Mental Health (3-0). A study of the interface of social work and the criminal justice system including policing, the courts, and offender rehabilitation. Topics include the roles of criminal justice personnel, crisis intervention, the assessment and treatment of juveniles and adults, justice involved special populations, casework in correctional settings, and the evaluation of treatment programs.

Prerequisite: Social Work 2307.

4333 Study Abroad: European Culture and Diversity (3-0). This course will highlight the unique and diverse culture of Austria, Netherlands, and Romania. The focus will be on how the culture and diversity of Austria, Netherlands, and Romania influence various areas of life; specifically related to the arts, culture, customs and traditions, and religion.

4336 Study Abroad: European Social Welfare (3-0). This course will explore the social welfare system in Austria, Netherlands, and Romania to examine the similarities and differences from the social welfare system in the United States. An examination of how Austria, Netherlands, and Romania have developed over time to address social welfare issues and how the policy implications have impacted the recipients of social welfare services in each country. The course will also examine the differences in how each country deals with social issues, and how these differences impact social welfare policy.

4346 Social Work and International Practice (3-0). This course will examine the growing trend of social work practice internationally and focus on economic, social, and environmental justice; along with the impact of international policy related to human rights, human trafficking, refugees, and poverty. It will also examine how global conflict impacts individuals safety and human rights.

Prerequisite: Social Work 2307.

4370 Social Work Professionalism and Introduction to Field (3-0). This course will provide knowledge on Professionalism skills necessary for generalist social work practice which will include information on following professional values and standards outlined in the National Association of Social Workers (NASW) Code of Ethics, strict adherence to the competencies outline by the Council on Social Work Education (CSWE), and preparation into field work. Topics include NASW code of ethics and ethical dilemmas that students may face, CSWE competencies and behaviors and how to incorporate them into practice, importance of self-care, malpractice insurance, interviewing skills, the role of the social worker in a practice setting, and importance of supervision in the practice setting.

Prerequisite: Social Work 2307 and admission into the Social Work Program.

4371 Social Work Field Education I. A supervised internship of at least 200 hours in an approved agency appropriate to social work; fosters the integration of classroom knowledge, values, and ethics with practice-based knowledge that seeks to increase practice skills and promotes professional competence. Restricted to Bachelor of Social Work majors.

Prerequisites: A grade of "C" or higher in all required Social Work courses, good academic standing as a senior in the social work program, and permission from the Social Work Program Director and the Social Work Field Education Director.

4372 Social Work Field Education II. A supervised internship of at least 200 hours in an approved agency appropriate to social work; fosters the integration of classroom knowledge, values, and ethics with practice-based knowledge that seeks to increase practice skills and promotes professional competence. Restricted to Bachelor of Social Work majors.

Prerequisite: Social Work 4371.

4373 Social Work Practice III (3-0). Students will demonstrate their knowledge, values, and skills learned in the B.S.W. program by completing a comprehensive exam. Students will have three (3) attempts to successfully pass the comprehensive exam with a score of 70 or higher to graduate from the B.S.W. program. Students will be taught the process of applying for licensure through Texas Behavioral Health Executive Committee (TBHEC), explore job opportunities as a social worker, other professional activities, and/or learn about graduate school opportunities.

Prerequisite: Social Work 4371.

Social Work (SWK) continued

4381 Special Topics in Social Work (3-0). Selected topics in social work. (May be repeated once for credit when topic varies.)

4391 Independent Research in Social Work (3-0). A specialized course which may be directed reading or research for superior students. (May be repeated once for credit when topic varies.)
Prerequisite: Approval from the Social Work Program Director.

Sociology (SOC)

1301/SOCI 1301 Introduction to Sociology (3-0). Outline of the sociological perspective and a survey of topical studies in sociology. Representative topics may include family, politics, economy, religion, education, crime, population, environment, and others.

1306/SOCI 1306 Social Problems (3-0). Study of social problems and issues facing the United States. Major problems and issues are analyzed and alternative solutions are evaluated. The course is designed for non-majors as well as majors.

3302 Social Psychology (3-0). A survey of sociological social psychology. Topics include the effects of social institutions on individual behavior, personality and social structure, social identity, symbolic interactionism, social roles, social exchange, socialization, and intimate relationships.

3315 Marriage and Family (3-0). Marriage and family as social institutions and their relationship to other institutions, with emphasis on the American family in a time of rapid social change.

3316 Family Violence (3-0). An examination of family violence as a social problem. Topics may include the nature and description of family violence, the prevention of family violence, and contemporary intervention programs.

3325 Social Research and Data Analysis (3-0). A review of the methods of social research with a brief introduction to elementary statistics, data analysis, and practice in computer applications.

3341 Juvenile Delinquency (3-0). A study of the nature, extent, and varieties of delinquency in the United States relative to social institutions and peer groups. The course will survey historical and current theory as well as research pertaining to delinquent behavior, treatment, and prevention.

3343 Criminology (3-0). A survey of the nature and extent of crime in America. The course will examine classical and contemporary theory as well as research pertaining to criminal behavior, treatment, and prevention.

4301 Sociological Theory (3-0). Analysis of the main traditions of sociological thought.
Prerequisite: Sociology 1301.

4331 Life Course Sociology (3-0). A study of social dimensions and significance of experience aging through the life course from birth to death.

4339 Sociology of Education (3-0). Examines education as a social institution in the United States. Focuses on education and its relationship to social organization, social behavior, socialization, life-course development, and career development.

4341 Deviant Behavior (3-0). The study of normative behavior and deviation from social norms. Focuses on non-criminal and criminal deviance such as mental disorders, substance use and abuse, prostitution, interpersonal violence, suicide and self-harm, sexual deviance, and cyber/internet deviance.

4360 Applied Sociology (3-0). This course provides a survey of career fields in sociology and the skills needed to pursue them. Applications of sociology are examined. Also, applying to graduate school will be addressed. A major field test and portfolio assessment are required.
Prerequisite: Senior standing.

4362 Sociology of Health and Illness (3-0). An examination of sociological perspectives concerning health, health behavior, illness and disease, health institutions and organizations, health systems, and health professions.

4363 Sociology of Mental Health and Illness (3-0). An examination of sociological perspectives concerning mental health, mental illness, mental health institutions and organizations, mental health systems, and mental health professions.

4365 Social and Health Measurement (3-0). A survey of various social and health measures used in the social, behavioral, and health sciences. Reliability, validity, norms, and instrument selection; as well as, instrument administration, scoring, and interpretation are covered.

4381 Special Topics (3-0). Selected topics in sociology. (May be repeated once for credit when topic varies.)

4391 Research. A specialized course which may be directed reading or research for superior students majoring in sociology. (May be repeated once for credit.)
Prerequisites: Junior standing.

Spanish (SPAN)

1301 Spanish I (3-0). Introduction to basic structures and usage of modern Spanish. The emphasis is on development of basic Spanish vocabulary and grammar, accuracy of pronunciation, the acquisition of listening, speaking, reading, and writing skills, and the introduction of cultural elements.

1302 Spanish II (3-0). A sequel to Spanish 1301.
Prerequisite: Spanish 1301 or equivalent.

2311/SPAN 2311 Spanish III (3-0). An expansion of the language skills acquired in Spanish 1301 and 1302. Strengthening of basic structures and introduction of more complex structures. The course will increase accuracy in listening, speaking, reading and writing Spanish, and promote knowledge of cultural background.
Prerequisite: Spanish 1302 or equivalent.

Spanish (SPAN) continued

2312/SPAN 2312 Spanish IV (3-0). Fourth-semester capstone course organized around grammatical topics and cultural issues. Review and expansion of structural aspects, reading and discussion of selected Spanish texts, and continued practice in composition and conversation.
Prerequisite: Spanish 2311 or equivalent.

3301 Advanced Spanish Grammar I (3-0). A review of advanced structures and usage of modern Spanish. The emphasis is on developing an understanding of and ability to correctly use Spanish vocabulary and grammar, accurately pronounce words, and acquire skills (listening, speaking, reading, and writing) as well as cultural knowledge. Special focus on simple and complex sentences in the present.
Prerequisite: Spanish 2312 or consent of department chair.

3302 Advanced Spanish Grammar II (3-0). A review of advanced structures and usage of modern Spanish. The emphasis is on developing an understanding of and ability to correctly use Spanish vocabulary and grammar, accurately pronounce words, and acquire skills (listening, speaking, reading, and writing) as well as cultural knowledge. Special focus on simple and complex sentences in the past.
Prerequisite: Spanish 2312 or consent of department chair.

3310 Advanced Spanish Composition (3-0). An intensive course designed to develop an appreciation of style in written Spanish. Students should gain an awareness of the difference between oral and written Spanish. Students will review key areas of grammar, expand their vocabulary, and examine their writing, practicing both formal and informal expression.
Prerequisite: Spanish 2312 or consent of department chair.

3314 Advanced Spanish Conversation (3-0). A course designed to improve the student's conversation skills and fluency. This course is primarily directed toward meeting the needs of future language teachers.
Prerequisite: Spanish 2312 or consent of department chair.

3334 Film and Culture of the Spanish-Speaking World (3-0). An analysis of Spanish and Latin-American culture through film. Students will explore Spanish and Latin American representations of nationality, ethnicity, politics, and gender. This course will be taught in English. Knowledge of Spanish is desirable but not required. Lectures and class discussions will be in English. Spanish majors and minors are required to complete all written assignments in Spanish.

4071 Internship in Spanish: Credit 1 to 6. An internship experience with advanced assignments in Spanish. (Spanish 4071 may be repeated with a limit of 6 hours total.)
Prerequisite: 60 hours - including current semester credit hours, a 2.50 or higher cumulative GPA at the time of application, and department permission.

4320 Survey of Spanish Literature (3-0). A survey of Spanish literature from the Middle Ages to the present. Students assumed to have completed Spanish 3301 and 3302.
Prerequisite: Spanish 2312 or consent of department chair.

4324 Survey of Spanish-American Literature (3-0). A survey of Spanish-American literature from pre-colonial to the present. Students assumed to have completed Spanish 3301 and 3302.
Prerequisite: Spanish 2312 or consent of department chair.

4326 Methods of Teaching Foreign/Second Language (3-0). Study and application of perspectives, theories, pedagogies, and methods of foreign language teaching and learning. Note that this course may not be used to satisfy Spanish minor requirements but may count as upper-division elective credits.
Prerequisite: Spanish 2312 or equivalent, or consent of department chair.

4332 Spanish Civilization (3-0). A survey of the history and culture of Spain from prehistoric times to the present.
Prerequisite: Spanish 2312 or department consent.

4333 Spanish-American Civilization (3-0). A survey of the history and culture of Spanish America from pre-Columbian times to the present.
Prerequisite: Spanish 2312 or department consent.

4381 Special Topics (3-0). Selected topics in Spanish. May be repeated once for credit when topic varies.
Prerequisite: Spanish 2312 or equivalent, or consent of department chair.

4391 Research. A specialized course which may be directed reading or research for superior students in Spanish. (May be repeated once for credit.)

Dual Credit: Off-Site Courses

Spanish (SPAN)

SPAN 1411/SPAN 1411 Beginning Spanish I (4-0). Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

SPAN 1412/SPAN 1412 Beginning Spanish II (4-0). Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

Special Education (SPED)

2361 A Survey of Exceptionalities (3-0). A survey of diverse populations in educational settings with emphasis on students with special needs, limited English proficiency, cultural differences, educational disabilities, and/or gifts and talents. Regulations as well as appropriate instructional and assessment strategies, and information on referring students for special programs and resources are included. A field-based experience is required.

3360 Behavior Assessment and Support (3-0). Study of behavior assessments, theories, strategies, and practices. Strategies for inclusion supports will be taught.
Prerequisite: Special Education 2361 with a "C" or better.

Special Education (SPED) continued

3364 Educating Individuals with High-incidence Disabilities in an Inclusive Environment (3-0). A study of special problems related to the education of students with high-incidence disabilities. Designed to provide a working knowledge of instructional approaches and behavioral strategies. A field-based experience is required.

Prerequisite: Special Education 2361 with a "C" or better.

3365 Principles of Assessment (3-0). Designed to provide assessment strategies, formal and informal, to assess, plan, monitor, and evaluate the development of students with learning differences.

Prerequisite: Special Education 2361 with a "C" or better.

4362 Behavior and Discipline Management Theory (3-0). A practical approach to the implementation of behavioral assessment and discipline management of students with learning and behavioral differences. A field-based experience is required. (Must be taken concurrently with Special Education 4363.)

Prerequisite: Special Education 2361, 3360, 3364, 3365 all with a "C" or better. Admission to the Educator Preparation Program.

4363 Learning Disorders (3-0). A study of practices of working with learning differences. A field-based experience is required. (Must be taken concurrently with Special Education 4362.)

Prerequisite: Special Education 2361, 3360, 3364, 3365 all with a "C" or better. Admission to the Educator Preparation Program.

Theatre (TH)

1104 Rehearsal and Performance (0-3). A program of activities to include participation in the cast and/or production staff of at least one dramatic production each semester. (May be repeated for a maximum of four semester credit hours but may not be used to meet theatre major or minor requirements.)

1120/DRAM 1120 Theatre Practicum I (0-4). Practicum in theatre open to all students with emphasis on technique and procedures with experience gained in play productions.

1121/DRAM 1121 Theatre Practicum II (0-4). Practicum in theatre open to all students with emphasis on technique and procedures with experience gained in play productions.

1310/DRAM 1310 Introduction to Dramatic Art (3-0). A historical survey of the development of dramatic art; introduction to contemporary theatre practice.

1322/DRAM 1322 Stage Movement (3-0). Principles, practices, and exercises in body techniques and stage movement; emphasis on character movement and body control.

1330/DRAM 1330 Stagecraft I (3-0). Study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management.

1341/DRAM 1341 Stage Makeup (3-0). Design and execution of makeup for the purpose of developing believable characters. Includes discussion of basic makeup principles and practical experience of makeup application.

1342/DRAM 1342 Introduction to Costume (3-0). Principles and techniques of costume design and construction for theatrical productions.

1351/DRAM 1351 Acting I (3-0). Study of acting techniques; vocal and physical training.

1352/DRAM 1352 Acting II (3-0). Study of acting techniques, vocal, and physical training with a focus on scene structure and character development.

2120/DRAM 2120 Theatre Practicum III (0-4). Practicum in theatre open to all students with emphasis on technique and procedures with experience gained in play productions.

2121/DRAM 2121 Theatre Practicum IV (0-4). Practicum in theatre open to all students with emphasis on technique and procedures with experience gained in play productions.

2310 Fundamentals of Theatre Design (3-0). The use of computers in designing for theatrical production, with study of computer graphics and other software for scenic, lighting, costume, sound, promotions, and projections design.

2321 Script Analysis (3-0). A study and application of the basic literary and theoretical structures characteristic of a wide variety of plays. Designed to provide students with the analytical tools for understanding dramatic texts and to give students experience in skillful application of analysis tools in critical thinking and artistic practice.

2331/DRAM 2331 Stagecraft II (3-0). Continued study and application of the methods and components of theatrical production that includes theatre facilities, lighting, and sound.

Theatre (TH) continued

3311 Dramatic Literature (3-0). A critical study of representative 20th-21st Century drama with emphasis on script analysis, dramatic theory, and stage production.

3320 Vocal Production (3-0). Development of clear articulation and enunciation, correct pronunciation, proper vowel placement and control of the speaking voice through study and exercise specifically for the actor.

3331 Theatre Production Management (3-0). Management of the physical stage; production schedules; box office; public relations.
Prerequisite: Theatre 1351 or 1352.

3334 Theatre Design I (3-0). The theoretical and aesthetic concepts of design for the stage, focusing on the areas of scenery and costume design. This course will explore the elements and principles of design, the design process and visualization/communication skills.
Prerequisites: Theatre 1330, or consent of instructor.

3341 Theatre Design II (3-0). The theoretical and aesthetic concepts of design for the stage, focusing on the areas of lighting, sound, and projection design. This course will explore the elements and principles of design, the design process and visualization/communication skills.

3353 Acting III - Styles (3-0). An exploration of special problems the actor encounters with dramatic texts from various periods. Plays, manners, customs, and movement characteristics of Greek, Elizabethan, French Neoclassical, and Restoration periods will be studied through monologue work.

4301 Senior Seminar (3-0). Capstone course for all areas of theatre, emphasizing portfolio development and other preparation for entry into the theatre profession. Course topics also include: professional communication excellence, job interviewing, team communication, cultural sensitivity, and work-life balance.

4311 History of Dramatic Art I (3-0). A historical study of the theatre from primitive times to the Eighteenth Century. Course includes an examination of the physical theatre, acting styles, costumes and scenery, representative plays, and theories of drama applicable to the various periods under consideration.

4312 History of Dramatic Art II (3-0). A historical study of the theatre from the Eighteenth Century to the present. Includes a study of the physical theatre, development of modern drama, acting styles, and theories of drama applicable to the various periods under consideration.

4314 Playwriting (3-0). Analysis of play structure. Each student will write a one-act play to demonstrate comprehension of the processes involved.

4321 Directing (3-0). Basic techniques of directing for the stage; scene interpretation; pictorial composition. Students direct and supervise production of short scenes.
Prerequisites: Theatre 1330, 1351 or 1352.

4323 Advanced Theatrical Design (3-0). An advanced course in theatre design theory, techniques, materials, and processes. Consideration of theatre styles, and the development of creative methods and technical solutions to design problems. Emphasis is placed on designer collaboration.

4351 Acting IV - Advanced Acting (3-0). Focus on acting for the camera, alternative approaches to acting and preparation of career development process - development of resume, headshots, portfolio, auditioning, markets, etc. A study of the essential elements of theatre production. Criteria for evaluating and selecting plays and the philosophy of performance theories.
Prerequisite: Theatre 1351 or 1352, or permission of instructor.

4381 Special Topics (3-0). A course dealing with selected topics in theatre. May be repeated for a total of 12 credit hours when topic varies.
Prerequisites: Sophomore, Junior, or Senior standing.

4391 Research. A specialized course which may be directed reading or research for advanced students majoring in theatre. May be repeated for a total of 12 credit hours.
Prerequisites: Senior standing and department chair approval.

University Studies (USTD)

3381 Special Topics in Interdisciplinary Studies (3-0). These courses are designed to consider selected topics which lend themselves to the use of an interdisciplinary approach. Guest lecturers, team-teaching, and field study often will be included. Courses in various fields of study may be offered through the medium of newspaper or television as they are made available. Each course may be repeated once for credit when topic varies.

Board of Regents

Texas Tech University System

Officers

Mark Griffin, Chairman

Ginger Kerrick Davis, Vice Chairman

Regents

Term Expires January 31, 2027

Arcilia Acosta ..... Dallas
Cody Campbell ..... Fort Worth
Pat Gordon ..... El Paso

Term Expires January 31, 2029

Clay Cash ..... Lubbock
Tim Culp ..... Midland
Shelley Sweatt ..... Wichita Falls

Term Expires January 31, 2031

Doug McReaken ..... Pearland
Donald R. Sinclair ..... Houston
Dusty Womble ..... Lubbock

Student Regent

Term Expires May 31, 2025

Jad Zeitouni ..... Lubbock

Staff

Keino McWhinney, Secretary of the Board of Regents and Special Advisor to the Chancellor

Christina Martinez, Executive Secretary to the Board

University Administration

Administrative Officers

Ronnie D. Hawkiins Jr., M.S., M.Div.
President

Donald R. Topliff, Ph.D.
Provost and Vice President for Academic Affairs

Angelina Wright, B.B.A.
Vice President for Finance and Administration

Jamie Mayer, M.P.A.
Vice President for External Affairs

Benjamin Lion, Ed.D.
Vice President for Student Affairs

Douglas W. Fox, B.S.
Associate Vice President for Information Technology and Chief Information Officer

Kerri Mikulik, Ed.D.
Assistant Vice President Prospective Student Outreach and Access

Katie Lyman, Ph.D.
Dean of the Archer College of Health and Human Services

Micheal W. Salisbury, Ph.D.
Interim Dean of the College of Arts and Humanities

Scarlet M. Clouse, Ed.D.
Dean of the College of Education and Interim Director of the Kay Bailey Hutchison Center for Cyber Intelligence, Innovation, and Security Studies

Paul K. Swets, Ph.D.
Dean of the College of Science and Engineering

Andrew A. Tiger, Ph.D.
Dean of the Norris-Vincent College of Business

David L. Bixler, Ph.D.
Dean of the College of Graduate Studies and Research and Director Innovation Hub

Micheal W. Salisbury, Ph.D.
Dean of the Freshman College

Sandra H. Mohr, Ed.D.
Dean of Digital Learning and Instruction

Kimberly K. Livengood, Ph.D.
Associate Dean of the College of Education

Academic Department Chairs

Archer College of Health and Human Services

Kristi M. White, Ph.D.
Department of Health Science Professions

James A. Eldridge, Ed.D.
Department of Kinesiology

Jennifer M. Braziel, D.N.P.
Department of Nursing

Kendra L. Nicks, Sc.D.
Department of Physical Therapy

James N. Forbes, Ph.D.
Department of Psychology

Thomas W. Starkey, Jr., Ph.D.
Department of Social Work and Sociology

College of Arts and Humanities

Leslie Rodriguez, Ph.D.
Department of Communication and Mass Media

Mark L. Harma, Ph.D.
Natalie Zan Ryan Department of English and Modern Languages

Jason E. Pierce, Ph.D.
Arnoldo De León Department of History

Anthony D. Bartl, Ph.D.
Department of Political Science and Philosophy

William A. Taylor, Ph.D.
Department of Security Studies and Criminal Justice

Constance Kelley, D.M.A.
Department of Visual and Performing Arts

College of Education

Twyla J. Tasker, Ph.D.
Interim, Department of Curriculum and Instruction

Carlos A. Flores, Jr., Ed.D.
Interim Department of Teacher Education

College of Science and Engineering

TBD
David L. Hirschfeld Department of Engineering

Cody B. Scott, Ph.D.
Department of Agriculture

Nicholas J. Negovetich, Ph.D.
Department of Biology

Kyle A. Beran, Ph.D.
Department of Chemistry and Biochemistry

Erdoğan Doğdu, Ph.D.
Department of Computer Science

Karl J. Havlak, Ph.D.
Department of Mathematics

Andrew B. Wallace, Ph.D.
Department of Physics and Geosciences

Norris-Vincent College of Business

Jeremy P. St. John, Ph.D.
Department of Accounting, Economics and Finance

Karyn Argueta, M.A.
Department of Aerospace Studies

Rex T. Moody, Ph.D.
Department of Management and Marketing

Administrative Staff

Office of the President

Bekah Coleman
Museum Director

Alicia Crisp
Senior Administrative Assistant

Emily Knopp, M.S.A., C.P.A., CISA
Audit Director

Jennifer Lennon, M.B.A.
HUB/Licensing Coordinator

Flor E. Leos, Ph.D.
Chief Core Values, Leader Development, and Community Engagement Officer

Michelle N. Miller, J.D.
Associate General Counsel

Nick Rackley
Director of Athletic Communications

James R. Reid, M.Ed.
Athletic Director

Candice B. Upton, B.S.
Director of Carr Foundation Operations

Ashley C. Warren, M.Ed.
Chief of Staff

Division of Academic Affairs

Margaret Alexander
Head of Access Services

Cynthia D. Belden, M.L.S.
Head of Technical Services - Library

Benjamin J. Borom, M.B.A.
Assistant Director of Registrar Services

Shirley M. Eoff, Ph.D.
Director of Honors Program

Brandy Hawkins, M.B.A.
Executive Director of Accountability

Dezaray Johnson, M.A.
Director of Small Business Development Center

Erin Johnson, B.A.
Assistant Director/Digital Programs

Melissa Lacy
Assistant Director for Administrative Services

Aubrey Madler, Ph.D.
Executive Director of Library Services

Kaleigh McKenzie
Executive Director to the Office of the Provost

David P. Morales, B.A.
Director of International Studies

Christena L. Parks
Curriculum and Policy Coordinator

Joseph A. Pruett, M.L.S.
Digital Repository Librarian

Heather Santellano
Executive Assistant to the Provost

Shannon Sturm, B.A.
Associate Director of Special Collections

Antonella Ward, M.L.S.
Systems Librarian

Courtney B. Wilson, M.Ed.
Director of Registrar Services

Kimberly A. Wirth, M.L.IS.
Assistant Director of Academic Engagement - Library

Meagan Word, M.Ed.
Director of Student Academic Progress

Division of External Affairs

Kimberly Adams, M.Ed.
Director of Development and Alumni Services

Elizabeth Biedermann
Associate Director of Financial Aid-Scholarship

Heather Crawford
Director Prospective Student Outreach and Access-Communications

Mary E. Escobar, M.B.A.
Associate Director of Financial Aid

Brooke Flores
Director of Dual Credit Operations

Cecilia Hernandez
Assistant Director of Admissions, Transfer and Military-Affiliated Programs

Sierra Humble
Assistant Director of Database and Advancement Services

C. Ed Kerestly, M.S.Ed.
Director of Financial Aid

Jennifer J. Love, B.B.A.
Executive Director of Development and Alumni Relations

Kerri Mikulik, Ed.D.
Assistant Vice President Prospective Student Outreach and Access

Brittney J. Miller, M.A.
Director of Communications and Marketing

Amanda Ritchie, Ed.D.
Director of Admissions

Robert L. Sport, B.S.
Associate Director of Admissions - Recruitment

Ashley Thomas
Assistant Director of Admissions

Julia Valles
Assistant Director of Operations-Scholarships

Division of Finance and Administration

James E. Adams, B.S.
Director of Public Safety and Chief of University Police

Jackie Baxter
Executive Director and Controller

Brian M. Braden, M.S.
Associate Chief Information Officer and Chief Technology Officer

Curt Braden, B.B.A.
Director of Enterprise Systems

Jason Brake, B.S.
Information Technology Security Officer

Tanner Bryant
Senior Associate Director of Information Technology

Gina R. Councilman, B.A.
Director of Accounting

Jackie Droll, M.A.
Technology Services Program Manager

Bruce Flage
Director of Materials and Property Management

Michele Gray
Assitant Accounts Payable Manager

Cody Guins
Executive Director of Facility Services

Jessica M. Harlin, B.B.A.
Assistant Director of Human Resources

Tracie Howell
Associate Director of Planning and Construction

Jeane M. Irby, M.B.A.
Director of Strategic Planning, Accessibility and Assistant to the Chief Information Officer

Brian Jackson, M.B.A.
Director of Customer Experience and Operations and Associate Chief Technology Officer

Wesley Jordan
Associate Director of Facilities Maintenance

Kailee S. Malleck
Director of Contracts and Procurement/Interim Accounts Payable Manager

Jessica A. Manning, M.B.A.
Director of Business Services

Kurtis Neal, S.P.H.R.
Director of Human Resources

Haley Neufeld, B.B.M.
Director of Student Accounts and Bursar

Chandler Payne
Associate Director of Event Technology

Duane Pruitt, B.B.A.
Executive Director of Budget and Payroll Services

Elicia K. Rankin
Purchasing and Travel Supervisor

Jon Roberts
Property Manager

Sandra K. Rosser, M.B.A.
Director of OneCard and Parking Services

Samuel Spooner III, M.S.
Director of Risk and Emergency Management

Christopher Steele
Director of Enterprise Applications and Automation

M. Ty Walden
Associate Director of Customer Experience and Operations

Division of Student Affairs

Candace Aguirre, M.Ed.
Assistant Director for Liaison Program and Residential Cohorts

Taylor Ball-Watson, M.Ed.
Assistant Director of Student Transitions

Brianna Douglas
Assistant Director of Outdoor Adventure

Brady Floyd
Assistant Director of Student Life

Lee Floyd
Associate Director of Student Care Services

Robert Gomez, Jr.
Assistant Director of Affiliated Military and Veteran Services

Jessica L. Gooch, M.Ed.
Director of Student Transitions and Title IX Compliance

Paul D. Hamilton, M.Div.
Director of Housing and Residential Programs

Clint Havins, Ph.D.
Executive Director of Student Life

Randall Jenkins
Director of Student Rights and Responsibilities

Farrah Lokey, M.Ed.
Assistant Director of Residential Student Intervention and Experience

Phillip H. Nichelson Jr., B.B.A.
Director of Affiliated Military and Veteran Services

Amber Pabon, M.A.
Assistant Director of Housing Operations

Bradley C. Petty, Ph.D.
Dean of Students

Dan Robertson, M.S.
Director of University Recreation

Peggy Speetzen, L.P.C.
Assistant Director of Counseling Services

Dallas Swafford, Ed.D.
Director of Student Disability Services

Kyrie Villa, L.P.C.-S.
Director of Counseling Services

Hozel West, M.Ed.
Assistant Director of Residence Life and Senior Area Coordinator

The Faculty

(Date) indicates year of hire

Underlined name indicates a member of the Graduate Faculty

Susan M. Abernathy (2014)
Specialization: Low-dimensional Topology
Professor of Mathematics
Ph.D., Louisiana State University
M.S., Louisiana State University and A&M College
B.A., Trinity University

Edson F. Abreu (2023)
Assistant Professor of Biology
D.Sc., M.S., Universidade de Sao Paulo-Brazil
B.S., Universidade de Santa Cruz do Sul-Brazil

Christie L. Adkins (2010)
Senior Instructor in Biology
M.S., B.S., Angelo State University

Taten L. Albright (2023)
Assistant Professor of Social Work and Director of the BSW Program
D.S.W., Capella University
M.S.W., Northwest Nazarene University
B.S.W., Brigham Young University Idaho

Jason Aleman (2022)
Assistant Clinical Professor of Social Work
Ph.D., Texas State University
M.S.S.W., University of Texas-Austin
B.A., University of Texas-San Antonio

Charles C. Allen (2002)
Professor of Physics
Ph.D., Purdue University
M.S., University of Illinois at Urbana-Champaign
B.S., Brown University

Jonathan D. Alvis (2016)
Professor of Music and Director of Bands
D.M.A., M.M., University of North Carolina-Greesboro
B.S., Concord University

Loren K. Ammerman (2002)
Specialization: Molecular Systematics
Professor of Biology
Ph.D., University of Texas at Austin
B.S., Texas A&M University

Daniel C. Anderson (2018)
Assistant Professor of Theatre and Director of the University Theatre
M.F.A., Texas State University
B.A., Stephen F. Austin State University

Dick T. Apronti (2017)
Associate Professor of Civil Engineering
Ph.D., M.S., University of Wyoming
B.S., Kwame Nkrumah University of Science and Technology

Ashley M. Araiza (2021)
Specialization: Social Health Psychology
Assistant Professor of Psychology
Ph.D., M.A., Stony Brook University
M.A., B.A., California State University-San Bernardino

Kenna R. Archer (2010)
Associate Professor of History
Ph.D., Texas Tech University
M.E.S., B.A., Baylor University

Anna G. Arreola (2013)
Senior Instructor in English
M.A., B.A., Angelo State University

Mark A. Arzate (2025)
Instructor of Commercial Aviation
M.S., Air University-Maxwell AFB
B.A., Angelo State University

Erin L. Ashworth-King (2009)
Specialization: Early Modern British Literature
Professor of English
Ph.D., B.A., University of North Carolina at Chapel Hill
M.A., University of Maryland at College Park

Ashley M. Atwood (2017)
Specialization: Counseling and Phycological Studies, Crisis and Trauma Counseling
Assistant Professor of Curriculum and Instruction
Ph.D., Regent University
M.Ed., Angelo State Unviersity
B.B.A., Texas State University

Susana Badiola (2004)
Specialization: Philosophy
Professor of Philosophy
Ph.D., B.A., Universidad Complutense de Madrid
B.A., Saint Louis University

Dionne T. Bailey (2001)
Specialization: Computational Algebraic Geometry
Professor of Mathematics
Ph.D., Emory University
B.S., University of Texas at Permian Basin

Erica Bailey (2017)
Specialization: Media Effects
Associate Professor of Communication
Ph.D., Pennsylvania State University
M.A., Virginia Polytechnic Institute and State University
B.A., Otterbein University

Walter M. Baranowski (2011)
Assistant Clinical Professor of Nursing
M.S., University of Cambridge
B.S.N., A.A.S., Angelo State University
B.S., Chapman University
A.A.S., Air University-Community College of the Air Force

Mario A. Barrientos (2008)
Senior Instructor in Mathematics
M.S., University of Texas at San Antonio
B.S., Sull Ross State University

Anthony D. Bartl (2012)
Specialization: Constitutional Law
Professor of Political Science and Chair of the Department of Political Science and Philosophy
Ph.D., M.A., Baylor University
B.A., Northern Illinois University

Joseph P. Bassi (2024)
Instructor of World Cultures
Ph.D., University of California-Davis
M.A., George Washington University
M.S., University of Colorado-Boulder
M.S., Pennsylvania State University
B.S., Manhattan College

Anthony Battistini (2017)
Associate Professor of Civil Engineering
Ph.D., M.A., University of Texas-Austin
B.S., Lehigh University

Bruce E. Bechtol, Jr. (2010)
Specialization: International Security, Asian Studies
Professor of Political Science
Ph.D., Union Institute & University
M.M.S., Marine Corps University
M.A., Catholic University of America
B.S., University of the State of New York

Kyle A. Beran (2018)
Professor of Chemistry and Chair of the Department of Chemistry and Biochemistry
Ph.D., University of Kansas
B.S., Angelo State University

David L. Bixler (1998)
Specialization: Atomic, Molecular and Optical Physics
Professor of Physics, Director Innovation Hub, and Dean, College of Graduate Studies and Research
Ph.D., M.A., Rice University
B.S., Tarleton State University

Timothy Bonenfant (2005)
Professor of Music
D.M.A., M.M., B.A.,University of Nevada
M.F.A., California Institute of the Arts

Heather J. Braden (2010)
Specialization: Geriatrics, Neuro, Motor Control
Professor of Physical Therapy
Ph.D., Texas A&M University
M.S., Texas Tech Health Science Center
B.S., Angelo State University

Loree A. Branham (2007)
Specialization: Food Safety
Professor of Animal Science and Research Scientist at the Management, Instruction, and Research Center
Ph.D., Texas Tech University
M.S., B.S., Angelo State University

Jennifer M. Braziel (2010)
Specialization: Advanced Practice Nursing - Acute Care
Associate Professor of Nursing, Director of the Nursing Program, Chair of the Department of Nursing, and the James A. "Buddy" Davidson Chair in Nursing Excellence
D.N.P., Texas Christian University
M.S.N., Yale University School of Nursing
B.S.N., A.A.S., Angelo State University

Steven T. Brewer (2014)
Specialization: Behavioral Neuroscience
Associate Professor of Psychology
Ph.D., M.S., University of New Orleans
B.S., Rogers State University

Benjamin Brojakowski (2019)
Specialization: Digital Communication
Associate Professor of Communication
Ph.D., Bowling Green State University
M.A., Marywood University
B.A., King's College

Jacqueline G. Brown (2010)
Specialization: Medical Microbiology
Professor of Nursing
Ph.D., M.S., Texas Tech University
B.S., Angelo State University

Katherine A. Bunker (2017)
Senior Instructor in Art
M.F.A., Texas Tech University
B.A., Incarnate Word

Johnny K. Burkhalter (2014)
Specialization: Counseling Psychology
Clinical Instructor in Psychology
Ph.D., M.S., B.S., Texas A&M University

Jacob C. Burtch (2022)
Assistant Clinical Professor of Physical Therapy
D.PT., B.S., Angelo State

Charlene D. Bustos (2011)
Specialization: Reading, General Education
Associate Professor of Teacher Education
Ph.D., Texas Tech University
M.A., Angelo State University
B.A., Our Lady of Lake University

Russell Calk (2020)
Specialization: Accounting
Associate Professor of Accounting
Ph.D., Oklahoma State University
M.B.A., B.B.A., Angelo State University

Gustavo Manny Campos (2015)
Senior Instructor in Political Science
M.P.A., B.A., Angelo State University

Ruben Cantu (2020)
Instructor in Agriculture
M.S., B.S., Texas A&M University-Kingsville

Sara O. Carlisle (2017)
Instructor in Curriculum and Instruction
M.Ed., Angelo State University
M.A., Texas A&M University

Zackery D. Carlock (2023)
Instructor in Communication and Director of Ram Radio
M.A., Grand Canyon University
B.S., Texas Tech University
A.A.S., Community College of the Airforce

Jason A. Carr (2023)
Assistant Professor of Chemistry
Ph.D., University of South Florida
B.S., New College of Florida
A.A., State College of Florida

Joel L. Carr (2020)
Specialization: Clinical Social Work, Tests and Measures, and Differential Diagnosis
Associate Professor of Social Work and Sociology and Director of the Doctor of Social Work Program
Ph.D., Capella University
Ph.D., University of North Texas
M.S.W., Louisiana State University
B.A., Louisiana Tech University

Kenneth W. Carrell (2016)
Associate Professor of Physics and Planetarium Director
Ph.D., M.S., B.S., Texas Tech University

Cynthia Carriger (2024)
Senior Instructor in Mathematics
M.S., Texas A&M University
B.A., Angelo State University

Leah D. Carruth (2015)
Specialization: Early Childhood and Literacy
Associate Professor of Teacher Education
Ph.D., M.Ed., B.A., Texas Tech University

Anthony N. Celso (2011)
Specialization: Terrorism, Mideast Security
Professor of Security Studies
Ph.D., M.A., B.A., The Ohio State University

Yo-Rong Chen (2021)
Specialization: Athletic Training
Assistant Professor of Athletic Training
Ph.D., M.A.T., Texas Tech University Health Science Center
M.S., B.S., National Taiwan Sport University

Roya Choupani (2021)
Specialization: Computer Science, Cybersecurity
Associate Professor of Computer Science
Ph.D., Delft University of Technology
M.S., Cankaya University
B.S., Tehran Polytechnics University

Scarlet M. Clouse (2019)
Specialization: Higher Education Administration
Professor of Education, Interim Director of the Kay Bailey Hutchison Center for Cyber Intelligence, Innovation, and Security Studies, and Dean, College of Education
Ed.D, Texas A&M University-Commerce
M.Ed., B.S., Sul Ross University

Jenny A. Combest (2024)
Assistant Professor of Curriculum and Instruction
Ph.S., M.S., Texas Tech University
M.Ed., B.S., Angelo State University

Kelley B. Cooper (2022)
Clinical Instructor in Health Science Professions
M.S.N., Johns Hopkins University
B.S.N., Texas Tech University Health Science Center

Lenore H. Cortez (2015)
Clinical Senior Instructor in Nursing
M.S.N., Walden University
A.A.S.N., Manchester Community College

Mark D. Covey (2021)
Assistant Professor of Music
D.M.A., M.M., University of California-Santa Barbara
B.A., Pepperdine University

Emerson P. Crabill (2019)
Specialization: Microbiology
Associate Professor of Biology
Ph.D., University of Nebraska-Lincoln
B.A., University of Kansas

Edwin J. Cuenco (2012)
Professor of Art
M.F.A., George Washington University
B.F.A., Philippine Women's University

Dinah J. Cummings (2011)
Specialization: Public Health
Professor of Health Science Professions and Regional Director
of the Laura W. Bush Institute for Women's Health
Ph.D., B.A., Texas A&M University
M.S., Texas Tech University

Drew A. Curtis (2013)
Specialization: Counseling Psychology
Professor of Psychology
Ph.D., Texas Woman's University
M.A., B.S., Sam Houston State University
A.A., Lone Star College System

Jeffrey D. Dailey (2011)
Specialization: Criminal Investigation, Intelligence Analysis, Forensic Psychology
Professor of Intelligence and Homeland Security
Ph.D., Sam Houston State University
M.S., Eastern Kentucky University
B.S., Florida Atlantic University

Jordan A. Daniel (2013)
Specialization: Recreation and Youth Development
Professor of Kinesiology
Ph.D., Texas A&M University
M.Ed., B.B.S., Hardin Simmons University

Pamela B. Darby (2014)
Clinical Senior Instructor in Nursing
M.S.N., A.S.N., Angelo State University
B.S.N., Texas A&M University at Corpus Christi

Dessie Davis (2022)
Instructor in English
Ed.D., Walden University
M.A., B.A., Angelo State University

Kyrbi A. Davis (2025)
Assistant Professor of Social Work
D.S.W., Angelo State University
M.P.A., Texas Southern University
M.S.W., Aurora University
B.S.W., Texas A&M University-Kingsville

Shanmugapriya Dharmarajan (2021)
Assistant Professor of Chemistry
Ph.D, South Dakota State University
M.S., B.S., Bharathiar University

J. Carlos Diaz (2022)
Instructor in Criminal Justice
M.S., B.A., Angelo State University
A.A.S., Howard College

Brook R. Dickison (2015)
Specialization: Higher Education, Administrative Law and Policy
Associate Professor of Curriculum and Instruction
Ed.D., Texas Tech University
M.Ed., Angelo State University
B.S., Texas A&M University

James W. Dickison (2011)
Specialization: Agriculture Education, Reproductive Physiology
Associate Professor of Agriculture and Davidson Chair for Agriculture Science and Leadership
Ph.D., Texas A&M University
M.S., B.S., Texas Tech University

Laurie J. Dickmeyer (2018)
Associate Professor of History
Ph.D., M.A., University of California-Irvine
M.A., University of British Columbia
B.A., Valparaiso University

William L. Dittmann (2019)
Specialization: Terrorism and Homeland Security
Assistant Professor of Border and Homeland Security
Ph.D., M.A., B.A., Sam Houston State University

Michael T. Dixon (2003)
Specialization: Vertebrate Ecology and Systematics
Associate Professor of Biology
Ph.D., University of Texas at Austin
B.A., Miami University of Ohio

Erdoğan Doğdu (2019)
Specialization: Computer Science, Cybersecurity
Professor of Computer Science and Chair of the Department of Computer Science
Ph.D., M.S., Case Western Reserve University
B.S., Hacettepe University

Brittany S. Draper (2017)
Clinical Senior Instructor in Psychology
Ph.D., Capella University
M.S., B.A., Angelo State University

Allison L. Dushane (2016)
Specialization: Eighteenth and Nineteenth Century Literature
Professor of English
Ph.D., M.A., Duke University
B.A., University of San Diego

Carla E. Ebeling (2017)
Senior Instructor in Biology
M.S., B.S., Angelo State University

Sterling D. Eckert (2024)
Assistant Clinical Professor of Physical Therapy and Director of Clinical Education
D.P.T, B.S., Angelo State University

"Zero" James A. Eldridge (2022)
Professor of Kinesiology and Chair of the Department of Kinesiology
Ed.D., University of Houston
M.A., Southwest Texas State University
B.A., Texas Luthern College

Stephen D. Emmons (2004)
Professor of Music
Ph.D., Texas Tech University
M.M., B.M., Texas State University at San Marcos

Jennifer L. Engle (2017)
Specialization: Educational Leadership, Curriculum and Instruction
Assistant Professor of Curriculum and Instruction
Ed.D., University of South Carolina-Columbia
M.A., Angelo State University
M.L.A., Texas Christian University
B.A., University of Texas-Arlington

Shirley M. Eoff (1981)
Specialization: British History
Professor of History and Director of the Honors Program
Ph.D., Texas Tech University
M.A., Hardin Simmons University
B.A., Howard Payne University

E. Enrique Escalante (2019)
Specialization: Economics
Assistant Professor of Economics
Ph.D., M.S., Texas Tech University
B.A., State University of San Antonio Abad, Peru

Andrew Espinoza (2024)
Clinical Instructor of Nursing
M.S.N., B.S.N., Angelo State University

Sagan A. Everett (2025)
Assitant Clinical Professor of Physical Therapy
D.P.T., B.S., Angelo State University

David A. Faught (2009)
Professor of Spanish
Ph.D., University of California-Irvine
M.A., Brigham Young University
B.A., Angelo State University

Steven M. Ford (2024)
Instructor in Commercial Aviation
B.S., Texas State University

Carlos A. Flores, Jr. (2015)
Specialization: Special Education
Associate Professor of Teacher Education and Interim Department Chair
Ed.D., M.Ed., Texas Tech University
B.S., Angelo State University

Laurel E. Fohn (2013)
Specialization: Pathophysiology, Molecular Genetics, and Developmental Biology
Professor of Biology
Ph.D., M.D., University of Texas Health Science Center at Houston
B.S., Angelo State University

James N. Forbes (1996)
Specialization: Developmental Psychology
Professor of Psychology and Chair of the Department of Psychology
Ph.D., M.S., University of Florida
B.A., B.S., University of Washington

S. Michael Ford (2024)
Instructor of Commercial Aviation
B.A., Texas State University

Ashlee R. Fuchs (2011)
Senior Instructor in Mathematics and Coordinator of Developmental Mathematics
M.S., Texas Tech University
B.A., Angelo State University

Samuel C. Gallander (2019)
Specialization: Clinical Social Work and Military Social Work
Senior Clinical Instructor in Social Work
M.S.W., Texas State University
B.S., Angelo State University

Ellada Gamreklidze (2019)
Specialization: Journalism
Associate Professor of Mass Media and Ram Page Advisor
Ph.D., Louisiana State University
M.A., University of Missouri
B.A., Georgian Technical University-Tbilsi Georgia

Manuel J. García-Ruiz (2018)
Associate Professor of Mechanical Engineering
Ph.D., University of Sydney-Australia
M.S., B.S., University of Los Andes-Bogota Columbia

Joseph K. Garland (2023)
Instructor in English
M.A., B.A., Angelo State University

Katherine M. Garrison (2022)
Instructor in English
M.A., Texas Tech University
B.A., Texas State University

Kevin G. Garrison (2009)
Specialization: Technical Communication, Rhetoric
Professor of English
Ph.D., M.A., Texas Tech University
B.A., Angelo State University

Jessica A. Garza (2019)
Instructor in Geology
M.S., University of Hawaii at Manoa
B.S., University of the Incarnate Word

Donna B. Gee (2008)
Specialization: General Education
Professor of Teacher Education
Ed.D., M.Ed., Texas Tech University
B.S. Ed., Lubbock Christian University

John Glassford (2002)
Professor of Political Science
Ph.D., The Open University, Scotland
M.A., B.A., University of Edinburgh

Dorothy D. Goddard (2015)
Specialization: Advanced Practice Nursing - Family Primary Care
Associate Professor of Nursing
D.N.P., University of Texas at Arlington
M.S.N., Texas Tech University Health Sciences Center
B.S.N., A.A.S.N., Angelo State University

Cathryn L. Golden (2017)
Specialization: Auditing
Senior Instructor in Accounting
M.P.Ac., B.B.A., Angelo State University

Adrienna R. Gonzalez (2018)
Clinical Instructor in Nursing
M.S.N., B.S.N., Western Governors University
A.A.S.N., San Antonio College

Judith Gonzalez (2022)
Instructor in English
M.A., B.A., Angelo State University

Leslie M. Gould (2021)
Assistant Professor of Marketing
D.B.A., University of Dallas
M.B.A, B.B.A., Angelo State University

Johns W. Graham III (2019)
Instructor in History
Ph.D., Yale University
M.A., Georgetown University
B.A., Angelo State University

Beverly J. Greenwald (2008)
Specialization: Family Nurse Practitioner
Professor of Nursing
Ph.D., North Dakota State University
M.S.N., Georgia College
B.A., Jamestown College

Matthew J. Gritter (2012)
Specialization: Public Policy
Associate Professor of Political Science
Ph.D., M.A., The New School
B.A., Wheaton College

Taylor Gruman (2023)
Assistant Professor of History
Ph.D., University of Missouri-Columbia
M.A., Indiana Univerisity
B.A., Sarah Lawrence College

Teresa E. Hack (2008)
Specialization: Social Psychology
Professor of Psychology
Ph.D., M.S., Purdue University
B.A., Indiana University-Kokomo

Dennis W. Hall (2016)
Specialization: Matroid Theory
Associate Professor of Mathematics
Ph.D., M.S., Louisiana State University and A&M College
B.S., University of Monetvallo

Ralph R. Hall (2004)
Professor of Art
M.F.A., Texas Christian University
B.F.A., Calvin College
B.A., Maharishi International University

Mark L. Hama (2001)
Specialization: Late 19th and 20th Century British Literature
Professor of English and Chair of the Department of English and Modern Languages
Ph.D., M.A., Tulane University
B.A., University of Texas at Austin

Armita Hamidi (2020)
Assistant Professor of Mechanical Engineering
Ph.D., University of Texas-Dallas
M.S., Eastern Mediterranean University-Cyprus
B.S., Water & Electricity University of Technology

John D. Handshoe (2022)
Assistant Professor of Art
D.M.A., University of Kentucky
M.M., B.M.E., Morehead State University

Kinsey O. Hansen (2016)
Specialization: Administrative Leadership
Associate Professor of Education
Ed.D., Texas Tech University
M.B.A., University of Phoenix-Tulsa
B.B.A., Texas State University

M. Shafinul Haque (2018)
Associate Professor of Mechanical Engineering
Ph.D., M.S., University of Texas-El Paso
B.S., Khulna University of Engineering and Technology

Julie L. Hargraves (2025)
Assistant Professor of Curriculum and Instruction
Ed.D., University of the Cumberlands
M.Ed., B.S., Angelo State University

Karl J. Havlak (2000)
Specialization: Mathematical Modeling
Professor of Mathematics and Chair of the Department of Mathematics
Ph.D., M.S., Texas Tech University
B.S., Angelo State University

"Gina" Regina B. Heep (2015)
Specialization: Higher Education Leadership
Associate Professor of Curriculum and Instruction
Ed.D., Hardin-Simmons University
M.Ed., Angelo State University
B.B.A., University of Texas at San Antonio

Connie A. Heimann (1999)
Specialization: Behavioral Ecology, Science Education
Professor of Biology
Ph.D., Oklahoma State University
M.S.E., B.S.E., Henderson State University

Kenneth J. Heineman (2009)
Specialization: 19th and 20th Century U.S. Political and Social History, Immigration, Foreign Policy, Industrialization
Professor of Security Studies
Ph.D., M.A., University of Pittsburgh
B.A., Michigan State University

Sarah N. Heinlein (2024)
Assistant Professor of Geology
Ph.D., M.S., B.,S., University of Texas-El Paso

Audrey B. Heron (2015)
Specialization: Educational Psychology, Professional School Counseling
Associate Professor of Curriculum and Instruction
Ph.D., Texas Tech University
M.Ed., B.A., Angelo State University

Larrimore W. Hettick (2017)
Specialization: Industry Analysis
Senior Instructor in Management
M.A., St. Mary's College of California
B.A., Pepperdine University

Randolph D. Hicks II (1987)
Associate Professor of Criminal Justice
Ph.D., University of Southern Mississippi
M.A., B.S., California State University at Fresno

Michael C. Holcomb (2019)
Associate Professor of Physics
Ph.D., M.S., Texas Tech University
B.A., Austin College

Eddie F. Holik III (2014)
Professor of Physics
Ph.D., M.S., Texas A&M University
B.S., Angelo State University

Autumn M. Hoover (1999)
Senior Instructor in Mathematics
M.S., B.A., Angelo State University

M. Delwar Hossain (2024)
Assistant Professor of Computer Science
Ph.D., Nara Institute of Science and Technology-Japan (Doctor of Engineering)
M.S., Bangladesh University of Professionals
B.S., State University of Bangladesh

Biqing Huang (2009)
Specialization: Corporate Finance
Professor of Finance
Ph.D., The University of Texas at San Antonio
M.A., Kansas State University
B.S., Zhongshan University

Jun Huang (2017)
Specialization: International Business, Data Analytics
Associate Professor of International Business
Ph.D., Texas A&M International University
M.S., Oxford Brookes University
B.S., Guangdong University of Technology

David A. Huckaby (2004)
Specialization: Applied Mathematics
Professor of Mathematics
Ph.D., M.A., University of California-Los Angeles
B.S., University of Texas at Austin

Teresa L. Huckaby (2015)
Specialization: Orthopedics
Associate Clinical Professor of Physical Therapy
D.P.T., Temple University
M.P.T., B.S., Angelo State University

Mellisa N. Huffman (2015)
Specialization: Rhetoric and Composition
Associate Professor of English and Coordinator of 1st Year Writing
Ph.D., University of New Mexico
M.A., B.A., Angelo State University

You-jou Hung (2009)
Specialization: Motor Control, Therapeutic Exercise, Research
Professor of Physical Therapy
Ph.D., University of Iowa
M.S., University of North Carolina at Chapel Hill
B.S., Chung Shan Medical University

Jamal G. Husein (2002)
Specialization: Applied Economics, Economic Development and Growth
Professor of Economics and Norris Family Chair in Business
Ph.D., Utah State University
M.B.A., University of New Haven
B.S., Yarmouk University

Jamie L. Hyatt (2023)
Clinical Instructor in Health Science Professions
M.P.H., B.S.H.S.P., Angelo State University
L.V.N., A.S., Howard College

John E. Irish (1999)
Professor of Music
D.M.A., University of Cincinnati
M.M., B.M., University of Texas at San Antonio

Roger M. Jackson (2012)
Specialization: Sixteenth and Seventeenth Century English Literature
Associate Professor of English
Ph.D., University of North Carolina at Chapel Hill
M.A., St. John's College
B.A., Brown University

Codi B. Jaynes (2017)
Senior Instructor in Mathematics
M.A., B.S., Angelo State University

Avis F. Johnson-Smith (2010)
Specialization: Family Nurse Practitioner and Pediatric Nurse Practitioner Studies
Professor of Health Science Professions
D.N.P., University of Minnesota
M.S.N., Troy University
B.S.N., Valdosta State University

Hannah L. Jones (2020)
Instructor in Biology
M.S., B.S., Angelo State University

Nan K. Jones (2010)
Senior Instructor in English and Coordinator of Developmental English
Ed.D, Hardin-Simmons University
M.A., Angelo State University
B.A., University of Texas at Austin

Raj Kamalapur (2015)
Specialization: Operations Management
Associate Professor of Management
Ph.D., M.S., M.S., Western Michigan University
B.Eng., Gulbarga University

S. Murat Kara (2000)
Specialization: Financial, Managerial, and Labor Economics
Professor of Economics and Johnny Fender Fellowship in Community Economic Development
Ph.D., M.A., Texas Tech University
M.S., Georgia State University
B.A., Karadeniz Tech University

Karl W. Karvonen (2024)
Instructor i Commercial Aviation
M.Ed., Lamar University
B.A., Sul Ross State University
A.S., Cameron University

Susan E. Keith (1997)
Specialization: Health Education, Kinesiology
Professor of Kinesiology
Ph.D., Texas Woman's University
M.S.Ed., Baylor University
B.S., University of Central Oklahoma

John D. Kellermeier (2016)
Specialization: Meat Science and Muscle Biology
Associate Professor of Animal Science
Ph.D., B.S., Texas Tech University
M.S., Angelo State University

Constance P. Kelley (2009)
Professor of Music and Chair of the Department of Visual and Performing Arts
D.M.A., University of Nebraska-Lincoln
M.M., Louisiana State University and A&M College
B.S., Southwest Missouri State University

Leslie J. Kelley (2020)
Specialization: Counseling Psychology
Associate Professor of Psychology
Ph.D., M.A., Texas Women's University
M.A., B.A., Franciscan University

Tamra K. Kelly (2019)
Specialization: Counselor Education
Assistant Professor of Curriculum and Instruction and M.A. in Professional Counseling Program Coordinator
Ph.D., Texas Tech University
M.A., B.A., Angelo State University

Steven T. Keniston (2015)
Senior Instructor in Piano
D.M.A., University of Texas at Austin
M.M., Baylor University
B.A., College of Charleston

Daniel P. Kennedy (2024)
Assistant Professor of English
Ph.D., University of Houston
M.F.A., Virginia Tech University
B.A., Boston University

Steven W. King (2012)
Senior Instructor in Chemistry
Ph.D., University of North Carolina at Chapel Hill
B.A., Elon University

William A. Kitch (2015)
Professor of Civil Engineering
Ph.D., University of Texas at Austin
M.S.C.E., B.S.C.E., University of Illinois

Paula C. Koca (2007)
Senior Instructor in Mathematics
M.S., Nicholls State University
B.A., Angelo State University

Elizabeth C. Koeman-Shields (2019)
Associate Professor of Geology
Ph.D., University of Notre Dame
B.S, Grand Valley State University

Caroline D. Koncz (2022)
Assistant Professor of Art
Ph.D., Ohio University
M.A., Webster University
B.A., Bradley University

Linda A. Kornasky (1996)
Specialization: American Literature
Professor of English
Ph.D., Tulane University
M.A., B.S., University of Rhode Island

Crystal M. Kreitler (2011)
Specialization: Cognitive Psychology
Professor of Psychology
Ph.D., M.S., Texas Christian University
M.S., B.A., Angelo State University

Sundar Krishnan (2022)
Assistant Professor of Computer Science
Ph.D., M.S., Sam Houston State University
M.S., Bharathiar University-India
B.S., Bangalore University-India

Greg Krukonis (2017)
Specialization: Ecology, Evolution, and Genetics of Viruses
Associate Professor of Biology
Ph.D., University of Arizona
B.A., University of Pennsylvania

Soyoon Kum (2021)
Assistant Professor of Environmental Engineering
Ph.D., University of Texas-Austin
M.S., B.S., Hongik University

Umesh Kumar (2025)
Assistant Professor of Finance
Ph.D., University of Texas-San Antonio
M.B.A., University of Mumbai-India
B.S., Magadh University-India

Robert A. La Flamme (2016)
Specialization: Critical Analysis
Senior Instructor in Intelligence, Security Studies, and Analysis
M.S., National Intelligence University
B.A., University of San Diego

Cynthia Lackey (2023)
Assistant Professor of Teacher Education
Ph.D., Texas Tech University
M.Ed., B.S., Angelo State University

John M. Langdon (2021)
Assistant Professor of Animal Science
Ph.D., Texas A&M University
M.S., B.S., North Carolina State University

Jong Hwa Lee (2017)
Specialization: Contemporary Rhetoric
Associate Professor of Communication
Ph.D., Ohio University
M.A., San Jose State University
B.A., Keimyung University, South Korea

Won-Jae Lee (2005)
Specialization: Statistics and Research Methods, Criminal Justice Administration
Professor of Criminal Justice and Executive Director (Asian Relations) to the Provost and Vice President for Academic Affairs
Ph.D., Sam Houston State University
B.A., Dong-Guk University

Heather L. Lehto (2012)
Professor of Geology
Ph.D., M.S., University of South Florida
B.S., University of California-Santa Barbara

Ervin F. Leiva (2023)
Assistant Professor of Agricultural Economics
Ph.D., University of Missouri-Columbia
M.S., University of Florida
B.S., Iowa State University

Flor E. Leos (2012)
Specialization: Interpersonal Communication
Chief Core Values, Leader Development, and Community Engagement Office
Ph.D., University of Texas at Austin
M.A., B.A., Angelo State University

Kimberly K. Livengood (2007)
Specialization: Multicultural Education
Professor of Curriculum and Instruction and Associate Dean of the College of Education
Ph.D., Texas A&M, College Station
M.S., Texas A&M, Corpus Christi
B.S., Texas Tech University

Tyler Livingston (2021)
Specialization: Social Psychology
Assistant Professor of Psychology
Ph.D., University of Nevada-Reno
M.A., University of Nevada
B.A., University of Nevada-Las Vegas

Nicole M. Lozano (2017)
Specialization: Relationships and Gender
Associate Professor of Psychology
Ph.D., M.A., University of Nebraska-Lincoln
B.S., Sam Houston State University

Marta N. Lukacovic (2021)
Specialization: Strategic Communication
Associate Professor of Communication
Ph.D., M.A., Wayne State University
B.A., B.S., Ferris State University

Katie Lyman (2025)
Dean, Archer College of Health and Human Services
Ph.D., University of South Florida
M.B.A., University of Iowa
M.S., Michigan State University
B.A., Central College Iowa

Kristen N. Lyons (2015)
Specialization: Educational Psychology, Licensed Specialist in School Psychology
Associate Professor of Curriculum and Instruction
Ph.D., Texas Tech University
M.Ed., B.S., Angelo State University

Vincent P. Mangano (2012)
Specialization: Interpersonal Communication
Senior Instructor in Accounting
M.B.A., Angelo State University
B.S., New Hampshire College

Raymond March (2024)
Assistant Professor of Economics
Ph.D., Texas Tech University
B.S.. B.S., Florida Gulf Coast University

Eduardo V. Martinez (2014)
Specialization: U.S. Intelligence and Global Security Challenges
Senior Instructor in Intelligence, Security Studies, and Analysis
J.D., Mississippi College
M.S.S.T., U.S. Army War College
M.A., Antioch University
B.A., University of Texas-Austin

Erinn S. Martinez (2022)
Clinical Instructor of Nursing
M.S.N., Grand Canyon University
B.S.N., A.A.S.N., Angelo State University

Janet L. Maxwell (2001)
Professor of Chemistry
Ph.D., University of South Carolina
B.S., University of Oklahoma

Carlos A. Maya-Lastra (2023)
Assistant Professor of Biology
D.Sc., M.S., Instituto de Ecologia, A.C.-Mexico
B.S., University of Quindio-Colombia

D. Rozena McCabe (2016)
Specialization: Motor Learning and Control
Professor of Kinesiology
Ph.D., Texas Woman's University
M.Ed., Stephen F. Austin State University
B.S., Trinity University

Lauren M. McCormick (2013)
Clinical Senior Instructor in Nursing
M.S.N., B.S.N., A.A.S.N., Angelo State University

Melissa R. McDowell (2012)
Specialization: Education
Associate Professor of Nursing
Ed.D., University of Mary Hardin-Baylor
M.S.N., South University
B.S.N., A.A.S.N., Angelo State University

Jesse W. McIntyre (2022)
Assistant Clinical Professor of Health Science Professions-Athletic Training
D.A.T., A.T. Still University
M.S., University North Georgia
M.E.D., East Central University
B.S., Oklahoma State University

Rebekah O. McMillan (2019)
Associate Professor of History
Ph.D., M.A., University of Arkansas
B.A., Ouachita Baptist University

Bertha M. Mendoza (2024)
Instructor in Spanish
M.A., Howard Payne University
B.A., University of Texas-Permian Basin

Audrey G. Meyer (2018)
Specialization: Livestock Reproduction and Nutrition
Senior Instructor in Agriculture
M.S., Angelo State University
B.S., Oklahoma State University

Robert K. Michael (2015)
Specialization: Instructional Leadership
Associate Professor of Nursing
Ed.D., University of Alabama
M.S.N., B.S.N., Medical College of Georgia

Sherry A. Miller (2012)
Assistant Clinical Professor of Kinesiology and Clinical Education Coordinator
M.S., University of North Texas
B.A., Texas Lutheran College
A.A.S., Casper College

Juan P. Montemayor (1985)
Senior Instructor in Mathematics
M.S., Texas A&M University
B.S., Angelo State University

Rex T. Moody (2012)
Specialization: Consumer Behavior and Promotions
Associate Professor of Marketing and Chair of the Department of Management and Marketing
Ph.D., University of Colorado-Boulder
M.B.A., University of New Mexico
B.A., Colorado State University

Kelly D. Moore (2013)
Specialization: Wound Care, Acute Care and Administration
Clinical Professor of Physical Therapy
D.P.T., Texas Tech University Health Sciences Center
M.B.A., Angelo State University
B.S., Southwest Texas State University

Kristi L. Moore (2009)
Specialization: Developmental Psychology, Educational Psychology
Professor of Psychology
Ph.D., University of Florida
M.S., B.S., Shippensburg University

Kalynn H. Mohr (2024)
Instructor in Agriculture and Research Associate
M.S., B.S.. Angelo State University

Sandra H. Mohr, (2023)
Dean of Digital Learning and Associate Professor of Curriculum and Instruction
Ed.D., Lamar University
M.A., West Virginia University
M.S., B.A., Pennsylvania Western University

Mark B. Motl (1990)
Professor of Computer Science
Ph.D., M.C.S., Texas A&M University
B.S., Angelo State University

Elisabeth-Christine Muelsch (1992)
Specialization: Nineteenth-Century French Literature
Professor of French
Ph.D., M.A., Albert Ludwig University, Freiburg

Justin R. Munoz (2023)
Assistant Professor of Marketing
Ph.D., M.B.A., B.B.A., University of Texas-El Paso

Amy L. Murphy (2016)
Specialization: Higher Education Administration
Associate Professor of Education
Ph.D., M.Ed., B.A., Texas Tech University

Laurence E. Musgrove (2009)
Specialization: Rhetoric, Composition
Professor of English
Ph.D., M.A., University of Oregon
B.A., Southwestern University

Robert Nalbandov (2022)
Instructor in World Cultures
Ph.D., Central European University-Hungary
M.A., Tufts University
M.P.A., Georgian Institue of Public Affairs
B.A., Iliya State University, Republic of Georgia

Nicholas J. Negovetich (2011)
Specialization: Parasitology, Ecology
Professor of Biology and Chair of the Department of Biology
Ph.D., M.S., Wake Forest University
B.A., Wabash College

Kendra L. Nicks (2012)
Specialization: Orthopedics, Manual Therapy
Professor of Physical Therapy, Director of the Doctor of Physical Therapy Program, James A. "Buddy" Davidson Endowed Chair in Physical Therapy and Chair of the Department of Physical Therapy
Sc.D., Texas Tech University Health Sciences Center
B.S., University of Texas Southwestern Medical Center

Brenda J. Norton (2017)
Senior Instructor in Political Science
Ph.D., Baylor University
M.A., Southern Methodist University
J.D., Texas Tech University School of Law
B.A., Creighton University

Landri L. Ognowski (2020)
Instructor in Accounting
M.P.Ac., B.B.A., Baylor University

Maria De Los Santos Onofre-Madrid (1984)
Assistant Professor of Spanish
M.A., University of Texas at Arlington
B.A., Angelo State University

Edith M. Osborne (2008)
Professor of Chemistry
Ph.D., Texas A&M University
B.S., Southwestern Oklahoma State University

Simon Pfeil (2018)
Specialization: Matroid Theory and Mathematics Education
Associate Professor of Mathematics
Ph.D., M.S., Louisiana State University
B.S., Southeastern Louisiana University

Charles A. Pier (2009)
Specialization: Income Tax
Professor of Accounting
Ph.D., University of Texas-Arlington
M.S., University of Rhode Island
M.B.A., Florida Institute of Technology
B.S., University of the State of New York

Jason E. Pierce (2009)
Specialization: American West, Native West, American Environmental History, Race and Identity and Public History
Professor of History and Chair of the Arnoldo De León Department of History
Ph.D., University of Arkansas
M.A., Portland State University
B.A., For Lewis College

Phillip Pierce (2025)
Assistant Professor of Sociology and Director of Sociology Program
Ph.D., M.S., B.A., Texas Women's University

Aldo R. Piñón-Villarreal (2017)
Associate Professor of Civil Engineering
Ph.D., M.A., New Mexico State University
B.S., Autonomous University of CD Juarez, Mexico

Donald Plachno (2015)
Instructor in Communication and Director of Ram TV/Technical Services
M.A., B.A., Angelo State University

Charles J. Plott (2009)
Specialization: Pedagogy
Instructor in Kinesiology
M.A.T., Angelo State University
B.S., Auburn University

Eric O. Posada (2021)
Assistant Professor of Music and Director of Choral Activities
D.M.A., B.M., Texas Tech University
M.M., Sam Houston State University

Michael S. Powers (2019)
Assistant Professor of History
Ph.D., University of Arkansas
M.A., Clemson University
B.A., University of Florida

Chelsea D. Procter-Willman (2019)
Specialization: Athletic Training
Assistant Clinical Professor in Health Science Professions
M.S., Ohio University
B.S., Angelo State University

Marcie E. Puckitt (2016)
Senior Instructor in English and Coordinator of the Writing Center
M.A., B.A., Angelo State University

Robert M. Pullin (2012)
Specialization: Criminal Justice
Professor of Border Security
Ph.D., M.S., Sam Houston State University
B.S., University of Houston-Victoria

Saravanan Ramasamy (2017)
Associate Professor of Organic Chemistry
Ph.D., University of Oklahoma
M.A., B.S., Bharathiar University

Gayle L. Randall (2014)
Assistant Professor of Marketing
D.B.A., University of Dallas
M.B.A., B.B.A., Angelo State University

Edgar Reed (2023)
Specialization: Sport Coaching and Administration
Associate Professor of Curriculum and Instruction
Ed.D., Texas A&M University-Commerce
M.S., B.S., Angelo State University

T. Derek Rhein (2024)
Instructor in Theatre
M.A., Texas A&M-Commerce
B.F.A., Sul Ross State University
A.A., Del Mar College

Fagner M. Rocha (2017)
Associate Professor of Music and Director of Orchestra
D.M.A., M.M., Texas Tech University
B.M., Universidade Federal do Rio Grande do Sul

Anna L. Rodriguez (2024)
Clinical Instructor in Anatomy and Physiology
M.S., B.S., Angelo State University

Leslie Y. Rodriguez (2011)
Specialization: Organizational Communication
Associate Professor of Communication and Chair of the Department of Communication and Mass Media
Ph.D., University of Southern Mississippi
M.A., B.A., Angelo State University

Christabel I. Romine (2023)
Instructor in Management
M.Ed., B.I.S., Angelo State University

Chase A. Runyan (2013)
Specialization: Beef Cattle Production
Professor of Animal Science and Research Scientist
Ph.D., M.S., Texas A&M University
B.S., Oklahoma State University

Ingrid A. Russo (2012)
Specialization: Clinical Social Work and Children and Families
Assistant Clinical Professor of Social Work
M.S.W., Fordham University
B.A., College of Mount Saint Vincent

Marie C. Salimbeni (2023)
Assistant Clinical Professor of Social Work
D.S.W., Yeshiva University
M.S.W., New York University
M.S.W., Adelphi University
B.S., Long Island University at CW Post

Micheal W. Salisbury (2001)
Specialization: Animal Reproductive Physiology
Dean, Freshman College, Professor of Animal Science, Director of First Year Experience, and Interim Dean, College of Arts and Humanities
Ph.D., New Mexico State University
M.S., B.S., Angelo State University

Brenda Sanchez (2017)
Clinical Senior Instructor in Nursing
M.S.N., B.S.N., A.D.N., Angelo State University

Anne M. Scaggs (2016)
Specialization: Clinical Social Work, School Social Work, and Children and Families
Associate Clinical Professor in Social Work
Ed.D., Walden University
M.S.SW., University of Texas
B.S.W., University of North Texas

Kraig L. Schell (2000)
Specialization: Industrial-Organizational Psychology
Professor of Psychology and Director of Assessment
Ph.D., University of Cincinnati
M.A., University of Central Oklahoma
B.S., Oklahoma Christian University

Heather M. Schoen (2017)
Specialization: Educational Psychology, Developmental and Learning Sciences
Assistant Professor of Curriculum and Instruction
Ph.D., Texas Tech University
M.A., Angelo State University
B.S., Abilene Christian University

Cody B. Scott (1995)
Specialization: Grazing Management, Animal Behavior
Professor of Animal Science and Research Scientist, Director of the Management, Instruction, and Research Center, and Chair of the Department of Agriculture
Ph.D., Utah State University
M.S., B.S., Angelo State University

Giovanna M. Scott (2022)
Instructor in Communication and Basic Course Director
MA, BA, Angelo State University

Ronnie L. Scott (2006)
Senior Instructor in English
M.A., B.A., Angelo State University

Rene R. Segoviano (2004)
Senior Instructor in Management
M.B.A., University of Texas at Austin
B.B.A., Angelo State University

Christopher M. Shar (2018)
Specialization: Substance Abuse and Adolescents
Associate Professor of Social Work and Director of the Master of Social Work Program
Ph.D., The Catholic University of America
M.S.W., Widener University
B.A., Shippensburg University of Pennsylvania

Juehui Richard Shi (2019)
Specialization: Business Strategy and Management
Associate Professor of Management
Ph.D., The University at Buffalo
M.B.A., Montclair State University
B.S., Elmira College

Stephen A. Shields (2019)
Instructor in Geology
M.S., Missouri State University
B.S., Grand Valley State University

Jennifer L. Shoemake (2017)
Clinical Senior Instructor in Sociology
M.S., Texas Tech University
B.S., Midwestern State University
A.A., Western Texas College

Trevor Shonhiwa (2024)
Assistant Professor of Accounting
Ph.D., M.Acc., B.S. University of Nebraska-Lincoln

Rebecca J. Shorey (2024)
Instructor in Commercial Aviation
M.Ed., Liberty University
B.S., Grand Canyon University

Trent W. Shuey (2015)
Senior Instructor in Percussion and Assistant Director of Bands
M.M., University of Nevada-Reno
B.M., Eastern Oregon University
A.A., Blue Mountain Community College

Andrew J. Siefker (2004)
Specialization: Applied Mathematics and Analysis
Professor of Mathematics
Ph.D., Arizona State University
M.S., B.E.E., Georgia Institute of Technology

Sangeeta Singg (1981)
Specialization: Counseling Psychology
Professor of Psychology
Ph.D., M.S., East Texas State University at Commerce
M.A., Mississippi State University
B.A., Punjab University

Satvir Singh (2017)
Specialization: Organizational Behavior and Human Resources
Professor of Management
Ph.D., University of Texas-El Paso
M.B.A., Willamette University
B.A.LL.B, B.A., Punjabi University

Ben R. Skipper (2014)
Specialization: Ornithology, Ecology, Geographic Information Systems
Professor of Biology
Ph.D., Texas Tech University
M.S., University of Nebraska
B.S., Auburn University

David R. Smith (2023)
Assistant Professor of Geography
Ph.D., M.A., University of Chicago
B.A., Kent State University

Gregory J. Smith (2013)
Associate Professor of Chemistry
Ph.D., University of Kansas
B.S., Texas A&M University-Corpus Christi

John C. Smith III (1994)
Specialization: Logic and Foundations
Professor of Mathematics
Ph.D., University of North Texas
M.S., B.S., Angelo State University

Martha Smith (2023)
Associate Clinical Instructor of Nursing
D.N.P., University of South Alabama
M.S.N., B.S.N., University of Southern Mississippi

Veronica D. Snow (2014)
Specialization: Athletic Administration and Coaching
Professor of Kinesiology
Ed.D., United States Sports Academy
M.Ed., B.Ed., Hardin-Simmons University
A.A., Yavapai College

Marva J. Solomon (2010)
Specialization: Language and Literacy
Professor of Teacher Education
Ph.D., M.A., University of Texas at Austin
B.A., Texas Tech University

Nicole M. St. Germaine (2008)
Specialization: Technical Communication and Rhetoric
Professor of English
M.A., B.A., Bowling Green State University

Jeremy P. St. John (2018)
Specialization: Management Information Systems
Associate Professor of Management and Chair of the Department of Accounting, Economics and Finance
Ph.D., M.S., B.B.A., University of North Texas

Tammy K. Stafford (2018)
Specialization: Executive Leadership
Associate Clinical Professor of Nursing
D.N.P., Texas Tech University Health Science Center
M.B.A., M.S.N., University of Phoenix
B.S.N., West Texas A&M-Canyon

Kristin G. Stanley (2023)
Clinical Instructor in Health Science Professions
M.Ed., Texas Tech University
M.A., B.B.A., Angelo State University

Thomas W. Starkey, Jr. (2009)
Specialization: Clinical Gerontology, Administration, and Health Care and Mental Health Policy
Professor of Social Work and Chair of the Department of Social Work and Sociology
Ph.D., University of North Texas
M.S.S.W., University of Texas at Arlington
B.S.W., Texas A&M University-Commerce

Cheryl K. Stenmark (2010)
Specialization: Industrial-Organizational Psychology
Professor of Psychology
Ph.D., M.S., University of Oklahoma
B.S., Tarleton State University

Ned E. Strenth (1978)
Specialization: Invertebrate Zoology
Professor of Biology
Ph.D., Texas A&M University
M.A., Southwest Texas State University
B.A., University of Texas at Austin

Elaine L. Stribling (2018)
Assistant Professor of Teacher Education
Ph.D., Texas Tech University
M.Ed., Angelo State University
B.S., Texas A&M University

Benedict C. Sum (2005)
Professor of Art
M.F.A., B.A., Texas Tech University

Hayun Surl (2022)
Assistant Professor of Art
M.F.A., Ohio University
B.F.A., Hansung University

Paul K. Swets (1998)
Professor of Mathematics and Dean, College of Science and Engineering
Ph.D., B.S., University of Texas at Austin

Nadia R. Talamantes (2022)
Clinical Instructor of Nursing
M.S.N., B.S.N., Angelo State University

Twyla J. Tasker (2015)
Specialization: Curriculum and Instruction
Associate Professor of Curriculum and Instruction and Interim Chair of the Department of Curriculum and Instruction
Ph.D., Texas Tech University
M.Ed., Tarleton State University
B.A., Baylor University

Jesse L. Taylor (2014)
Specialization: Matroid Theory
Professor of Mathematics
Ph.D., Louisiana State University
M.S., Louisiana State University and A&M College
B.S., Middle Tennessee State University

William A. Taylor (2011)
Specialization: Security Studies, Military History, Strategic Thought, Defense Policy
Professor of Security Studies and Chair of the Department of Security Studies and Criminal Justice
Ph.D., M. Phil., George Washington University
M.A., Georgetown University
M.A., University of Maryland-College Park
B.S., United States Naval Academy

Andrew A. Tiger (2018)
Professor of Management and Dean, Norris-Vincent College
of Business
Ph.D., University of Houston
M.S., B.S., University of Oklahoma

Donald R. Topliff (2015)
Professor of Animal Science, Provost and Vice President for Academic Affairs
Ph.D., M.S., Texas A&M University
B.S., Kansas State University
A.A.S., Colby Community College

B. Paige Trubenstein (2019)
Specialization: Developmental Psychology
Assistant Professor of Psychology
Ph.D., M.S., University of California-Riverside
B.S., Angelo State University

S. Scott Turner (2021)
Instructor of Practice and Director of the Commercial Aviation Program
M.B.A., Angelo State University
B.S., Franklin University

Kyle W. van Ittersum (2015)
Specialization: Industrial/Organizational Psychology
Associate Professor of Psychology
Ph.D., M.S., Kansas State University
B.A., Truman State University

Sonja Varbelow (2015)
Specialization: Secondary Education, Qualitative Research and Curriculum Theory
Associate Professor of Teacher Education
Ph.D., Texas A&M-Corpus Christi
M.A., B.A., Humboldt Universitat zu Berlin

Jacqueline L. Velez (2018)
Clinical Instructor in Nursing
M.S.N., B.S.N, Angelo State University

John G. Vinklarek (1977)
Professor of Art
M.F.A., University of Oregon
B.F.A., Texas Tech University

Huong T.V. Vo (2023)
Assistant Professor of Psychology
Ph.D., Chicago School of Professional Psychology
M.S., Angelo State University
B.A., Tay Nguyen University-Vietnam

Andrew B. Wallace (1989)
Professor of Physics and Chair of the Department of Physics and Geosciences
Ph.D., University of North Texas
M.S., North Texas State University
B.S., Texas Tech University

Deanna J. Watts (2012)
Specialization: American Politics and Public Administration
Associate Professor of Political Science
Ph.D., M.A., Miami University
B.A., Wheeling Jesuit University

John M. Wegner, Jr. (1997)
Specialization: Twentieth Century and Contemporary American Literature; Southwest Literature
Professor of English
Ph.D., University of North Texas
M.A., B.A., Sam Houston State University

Susan E. Whitaker (2018)
Senior Instructor in Mathematics
M.A., B.S., Angelo State University

Kristi M. White (2009)
Specialization: Athletic Training
Professor and Chair of the Department of Health Science Professions
Ph.D., M.S., University of Ohio
B.S., University of Minnesota

Ted R. Whitmer (2024)
Instructor in Business Law
J.D., University of Houston Law Center
M.B.A., Texas A&M University
B.A., Stephen F. Austin State University

R. Russell Wilke (1999)
Specialization: Avian Ecology
Professor of Biology
Ph.D., University of Texas at Austin
M.S., B.S., Angelo State University

Scott C. Williams (2008)
Professor of Physics
Ph.D., Texas Christian University
M.S., University of Texas at Dallas
B.S., University of North Texas

Jaci E. Wright (2023)
Clinical Instructor of Social Work and Social Work Field Education Director
M.S.W., B.S.W., B.S., Angelo State University

Jun Wu (2018)
Specialization: Gangs
Associate Professor of Criminal Justice
Ph.D., M.A., Sam Houston University
B.A., Zhejiang Police College-China

Leila Yarian (2021)
Assistant Professor of Art
M.F.A., Texas A&M-Commerce
M.F.A., Alzhra University
B.F.A., University of Art-Iran

Ralph A. Zehnder (2013)
Professor of Chemistry
Ph.D., M.S., University of Siegen, Germany

President Emeritus

E. James Hindman
President Emeritus
Appointed 1995, Emeritus since 2007

Emeritus Faculty

Nancy G. Allen
Distinguished Professor of English Emerita
Appointed 1984, Emerita since 2018

Johnny M. Bailey
Distinguished Professor of Mathematics Emeritus
Appointed 1968, Emeritus since 2006

D. Harris Brinson
Director of Bands Emeritus
Appointed 1974, Emeritus since 1997

Terrance Dalrymple
Distinguished Professor of English Emeritus
Appointed 1979, Emeritus since 2021

H. Ray Dawson
Distinguished Professor of Physics Emeritus
Appointed 1966, Emeritus since 2003

Arnoldo De León
Distinguished Professor of History Emeritus
Appointed 1973, Emeritus since 2015

William Doll
Distinguished Professor of Theatre Emeritus
Appointed 1999, Emeritus since 2018

Robert C. Dowler
Professor of Biology Emeritus
Appointed 1988, Emeritus since 2023

Edgar N. Drake
Distinguished Professor of Chemistry Emeritus
Appointed 1965, Emeritus since 1999

Gloria A. Duarte
Professor of English Emerita
Appointed 1977, Emerita since 2010

Jack C. Eli
Distinguished Professor of Communication Emeritus
Appointed 1971, Emeritus since 2004

Charles A. Endress
Distinguished Professor of History Emeritus
Appointed 1969, Emeritus since 2010

Gilbert R. Engdahl
Distinguished Professor of Animal Science Emeritus
Appointed 1976, Emeritus since 2014

Mary Ellen Hartje
Distinguished Professor of English Emerita
Appointed 1993, Emerita since 2018

Bill J. Henderson
Distinguished Professor of Government Emeritus
Appointed 1966, Emeritus since 2000

E. James Holland
Distinguished Professor of Government Emeritus
Appointed 1967, Emeritus since 2003

G. Leon Holland
Professor of Agriculture Emeritus
Appointed 1969, Emeritus since 2000

Laurence "Casey" F. Jones
Distinguished Professor of Security Studies and Criminal Justice Emeritus
Appointed 1990, Emeritus since 2019

David G. Loyd, Jr.
Distinguished Professor of Physics Emeritus
Appointed 1969, Emeritus since 2008

Terry C. Maxwell
Distinguished Professor of Biology Emeritus
Appointed 1976, Emeritus since 2014

John J. Miazga, Jr.
Distinguished Professor of Teacher Education Emeritus
Appointed 1980, Emeritus since 2019

C. Varren Parker, Jr.
Professor of Physics Emeritus
Appointed 1969, Emeritus since 2005

Robert V. Prestiano
Professor of Art Emeritus
Appointed 1973, Emeritus since 2008

Troy D. Reeves
Professor of English Emeritus
Appointed 1969, Emeritus since 2003

Joseph I. Satterfield
Professor of Geology Emeritus
Appointed 2003, Emeritus since 2024

Donald R. Shelby
Professor of Agriculture Emeritus
Appointed 1973, Emeritus since 2000

Mark Sonntag
Distinguished Professor of Physics Emeritus
Appointed 1985, Emeritus since 2018

Otto W. Tetzlaff
Distinguished Professor of German Emeritus
Appointed 1968, Emeritus since 1999

Dempsey Watkins
Distinguished Professor of History Emeritus
Appointed 1966, Emeritus since 1997

Bill D. Watts
Professor of Drama Emeritus
Appointed 1969, Emeritus since 1999

Index

A

Academic Department Chairs, 269
Academic Honesty, 171
Academic Minors, 187
Academic Organization, 29
Academic Programs, 26
Academic Regulations, 161
Academic Retention and Suspension, 173
Academic Services, 191
Academic Status, 173
Academic Success Centers, 192
Access to Student Records, 154
Accounting, 125
Accreditation, 3
ACT, 165
Administration, 269
Administrative Officers, 269
Administrative Staff, 270
Admission to the University, 10
Advising Requirements, 191
Aerospace Studies, 142
AFROTC, 142
Agribusiness, 100
Agricultural Science and Leadership, 97
Agricultural Science and Leadership Teacher Certification, 98
Agriculture, 96
Air Force Reserve Officer Training Corps, 142
Air Force Reserve Officer Training Corps (AFROTC), 142
Air Force Scholarships, 142
Alcohol and Controlled Substance, 154
Animal Science, 96
Application for Graduation, 181
Applied Arts and Sciences, 89
Archer College of Health and Human Services, 30
Art, 76
Artificial Intelligence, 111
ASU Tutor Center, 192
Athletics, 155

B

Bachelor's Degree Requirements, 176
Banking, 187
Basic English Skills, 175
Biology, 104
  Integrated Biology, 105
Biology Major with Life Science, 106
Blue and Gold Guarantee Program, 24
Board of Regents, 269
Border and Homeland Security, 70
Border Security, 71

C

Career and Professional Success, 153
Center for Academic Excellence, 192
Center for International Studies, 146
Certificate - Abstract Mathematics, 121
Certificate - Agricultural Communication, 56
Certificate - Applied Mathematics, 121
Certificate - Applied Statistics, 121
Certificate - Banking, 128
Certificate - Computer Game Development, 112
Certificate - Creative Writing: Fiction Concentration, 62
Certificate - Creative Writing: Poetry Concentration, 62
Certificate - Cybercrime Criminology, 75
Certificate - Cybersecurity, 71
Certificate - Cybersecurity Technologies, 112
Certificate – Data Science, 112
Certificate - Emergency Management, 71
Certificate - Financial Awareness, 128
Certificate - Global Crime Studies, 75
Certificate - Human Development, 49
Certificate - Human Diversity, 49
Certificate - Mental Health: Problems and Prevention, 49
Certificate - Online Instructor, 89
Certificate - Organizational Psychology, 49
Certificate - Technical Writing, 62
Certificate - Terrorism and Counter-Terrorism Studies, 71
Certificate - Web and Mobile Development, 112
Certificate - Youth Development Leadership, 41
Chemistry and Biochemistry, 108
City of San Angelo, 9
Civil Engineering, 114
Civil Engineering Fundamentals, 114
Class Attendance, 173
Classification of an Undergraduate Student, 161
CLEP, 164
Clinical Exercise Science, 40
Coaching Preparation, 41, 187
College Board Advanced Placement Tests, 168
College Level Examination Program (CLEP), 164
College of Arts and Humanities, 52
College of Business, 124
College of Education, 91
College of Health and Human Services, 30
College of Science and Engineering, 95
Commercial Aviation, 138
Communication, 54
Computer Science, 110
Core Curriculum, 182
Correspondence and Extension, 168
Counseling, 152
Course Descriptions, 194
  Accounting (ACCT), 194
  Adult Education (EDAE), 220
  Aerospace Studies (AS), 194
  Agricultural Economics (AGEC), 195
  Agricultural Science and Leadership (AGSC), 196
  Agriculture (AG), 195
  Animal Science (ASCI), 196
  Art (ARTS), 197
  Biology (BIOL), 199
  Border Security (BOR), 203
  Business (BUSI), 204
  Business Computer Information Systems (BCIS), 205
  Chemistry (CHEM), 205
  Civil Engineering (CENG), 206
  Commercial Aviation (CAV), 208
  Communication (COMM), 211
  Computer Science (CS), 212
  Criminal Justice (CRIJ), 216
  Cultural Competence (CUL), 217

Dual Credit: Off-Site Courses, 225, 240, 266
English (ENGL), 225
Latin (LATI), 240
Spanish (SPAN), 266
Early Childhood (ECH), 218
Economics (ECON), 218
Education - Adult Education (EDAE), 220
Educational Psychology (EPSY), 221
Education (ED), 219
Student/Clinical Teaching, 220
Engineering (ENGR), 221
English (ENGL), 222
Finance (FINC), 225
Food Science (FSCI), 226
French (FREN), 227
Gender Studies (GST), 227
General Studies (GS), 227
Geography (GEOG), 228
Geology (GEOL), 228
German (GER), 229
Health Science Professions (HSP), 230
History (HIST), 233
Honors Curriculum (HONR), 236
Intelligence and Analysis (INA), 236
International Studies (ISTD), 238
Kinesiology (KIN), 238
Latin (LATI), 240
Linguistics (LING), 241
Management (MGMT), 241
Marketing (MKTG), 243
Mass Media (MM), 244
Mathematics (MATH), 245
Mechanical Engineering (MENG), 247
Mexican American Studies (MAS), 248
Music (MUAP), 248
Applied Music, 248
Music (MUEN), 249
Ensemble, 249
Music (MUSI), 250
Class Piano, 251
Instrument Classes and Diction, 251
Pedagogy, Literature, Bibliography, and Senior Project, 251
Nursing (NUR), 252
Electives, 253
Philosophy (PHIL), 253
Physical Activity (PA), 254
Physical Science (PS), 255
Physics (PHYS), 255
Political Science (POLS), 257
Psychology (PSY), 259
Range and Wildlife Management (RWM), 261
Reading (RDG), 262
Russian (RUSS), 262
Social Work (SWK), 263
Sociology (SOC), 265
Spanish (SPAN), 265
Special Education (SPED), 266
Theatre (TH), 267
University Studies (USTD), 268
Course Drop Definition, 172
Course Drop Exemption Process, 172
Course Loads, 163
Creative Writing, 61
Credit by Examination, 164
Credit for Correspondence and Extension, 168
Criminal Justice, 74
Cybersecurity, 112

D

Dean's List, 175
Developmental Education Program, 175
Dining Services, 152
Directory, 2
Disabilities, 153
Dual Credit, 11
Dual Credit Admission, 11
Dual Credit: Off-Site Courses, 225, 240, 266
Dual Degrees, 181

E

Early Alert, 192
Economics, 127
Emeritus Faculty, 289
English, 59
English Language Learners Institute, 146
Enrollment Without Credit, 169
Equal Educational Opportunity, 4
Excess Undergraduate Credit Hours Rule, 163
Exercise Science, 40
Clinical Exercise Science, 40
Human Performance and Fitness, 41
Exploratory Tracks, 144

F

Faculty, 273
Fees, 15
FERPA, 154
Finance, 128
Financial Assistance, 24
Food Animal Science and Marketing, 102
French, 63
Freshman College, 144, 192
Freshman Seminar, 192
Fresh Start, 13

G

General Information, 8
General Statement Concerning Student Life, 156
Geoscience, 122
German, 63
Grade Grievance, 170
Grade Point Average, 175
Grading, 169
Graduation Exercises, 181
Graduation Under a Particular Catalog, 181
Graduation with Honors, 181
Grievance, 170
GS 1181: Freshman Seminar, 192
Guarantee Program, 24

H

Health Science Professions, 31
Healthcare Administration, 31
Integrated Health Science Professions in Physical Therapy and Allied Health Professions/ Athletic Training, 33
Physical Therapy and Allied Health Professions, 32
Public Health, 34
Health Services, 152
History, 65
History of the University, 9
Honesty, 171
Honors Core Curriculum Courses, 148
Honors Program, 148
Housing Information and Regulations, 22
Housing Requirements, 22
Housing Reservations, 22
Houston Harte University Center, 153
Human Performance and Fitness, 41

I

Information Technology, 193
Integrated Agribusiness/Business Administration, 101
Integrated English, 60
Integrated Finance/Business Administration, 129
Integrated Health Science Professions in Physical Therapy and Allied Health Professions/Athletic Training, 33
Integrated International Business/Business Administration, 131
Integrated Kinesiology and Coaching, Sport, Recreation and Fitness Administration, 38
Integrated Management/Business Administration, 133
Integrated Management Information Systems/Business Administration, 135
Integrated Marketing/Business Administration, 137
Integrated Professional Accountancy, 126
Intelligence and Analysis, 72
Interdisciplinary Studies, 90
International Baccalaureate Program, 167
International Business, 130
International Students, 14, 146
Internship in Psychology, 49
Intramurals, 155
Inventory of Academic Programs, 26

K

Kinesiology, 35
- Sport and Recreation Leadership, 36
- Teaching and Coaching, 37

L

Library, 193

M

Management, 132
Management Information Systems, 134
Marketing, 136
Mass Media, 57
Mathematics, 116
Math Lab, 193
Maximum Course Loads, 163
Mechanical Engineering, 115
Mechanical Engineering Fundamentals, 115
Minimum Academic Requirements, 173
Minors, 187
Mission, Vision and Values Statements, 8
Modern Languages, 63
Music, 80

N

Name Change, 162
Natural Resource Management, 103
Norris-Vincent College of Business, 124
Numbering of Courses, 163
Nursing, 42

O

Office of Student Transitions, 151
Office of Title IX Compliance, 152
Online Tutoring, 193

P

Parental Notification Policy, 154
Payment Options, 15
Payment Procedures, 15
Philosophy, 68
Physics, 123
Policies, Rules, and Regulations, 156
Political Science, 69
Political Science Internship, 69
Porter Henderson Library, 193
Pre-Dental, 107, 109
Pre-Law, 69
Pre-Medical, 107, 109
Pre-Occupational, 107
Pre-Pharmacy, 109
Pre-Physical Therapy, 32, 41, 49, 107
Pre-Veterinary Medicine Curriculum, 97
Psychology, 47

R

Rambunctious Week, 151
Range and Wildlife Management, 261
Reading, 262
Recreation and Intramurals, 155
Refund Policy, 16
Residence Halls, 152
Residency and Student/Clinical Teaching Eligibility Requirements, 159
Residency for Tuition, 19
ROTC, 142
Rules and Regulations, 156

S

SAT, 165
Schedule Changes, 171
Scholarships, 24
Second Baccalaureate Degree, 181
Senior-graduate Students, 164
Separation from the University, 173
Social Work, 50
Sociology, 51
Spanish, 63
Special Education, 266
Sport and Recreation Leadership, 36
Statement on Equal Educational Opportunity, 4
Status, 173
Student Affairs, 151
Student Appeal Process, 172
Student/Clinical Teaching Eligibility Requirements, 159
Student Government Association (SGA), 154
Student Health Services, 152
Student Life Office, 151
Student Organizations, 155
Student Records, 154
Student Responsibility, 161
Students with Disabilities, 153
Studio Art, 76
Study Abroad, 146
Supplemental Instruction (SI), 192

Suspension, 173
System of Grading, 169

T

Teacher Certification, 158
Teacher Education, 92
Teaching and Coaching, 37
Technical and Business Writing, 61
Testing Center, 147
Texas Common Course Numbering System, 186
Texas Education Code Excess Undergraduate Credit Hours Rule, 163
Texas Education Code Tuition Rebate for Undergraduates, 17
Texas Success Initiative (TSI), 161
Textbooks, 15
Theatre, 86
Title IX Compliance, 152
Transfer Credit, 13
Travel Management Policy, 156
Tuition and Fees, 15
Tutor Center, 192

U

Undergraduate Degree Plan, 180
University Administration, 269
University Center, 153
University Policies, Rules, and Regulations, 156
University Recreation, 155
University Studies Program, 150
Up and Coming Scholars, 192

V

Veterans Affairs (VA) Educational Benefits, 24
Veterans Educational and Transitional Services (VETS) Center, 153
VETS Center, 153

W

Withdrawal Definition, 172
Withdrawal from the University, 172
Writing Center, 193

Angelo State University