



**2019-  
2020**



**TEXAS A&M UNIVERSITY-SAN ANTONIO**

# **UNDERGRADUATE CATALOG**

    /@TAMUSanAntonio

 [www.tamusa.edu](http://www.tamusa.edu)

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# INTRODUCTION

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## **PURPOSE OF THE CATALOG**

This catalog is the official bulletin of Texas A&M University-San Antonio for the 2019-2020 academic year, in which are published the record of the year closing, the announcements for the coming year and the official administrative procedures which will be in effect during the coming year. Fees and administrative procedures (except standards and requirements for degrees) are, however, subject to change. This catalog may be viewed online at <http://www.tamusa.edu> under the “Academics” tab.

The courses of instruction announced herein are those that are available for offering during the sessions of August 2019-August 2020. Courses to be offered during any one semester or summer term are posted in *JagWire* system prior to registration for a particular semester or term. To meet evolving needs, the University does reserve the right to make changes in courses and to offer only those for which a sufficient number of students register.

*The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, faculty or staff member of Texas A&M University-San Antonio or The Texas A&M University System. This catalog is for informational purposes only. The university reserves the right to change or alter any statement herein without prior notice. This catalog should not be interpreted to allow a student that begins his or her education under the catalog to continue the program under the provisions in the catalog.*

## **ACCREDITATIONS, CERTIFICATIONS, AND APPROVED PROGRAMS**

Texas A&M University-San Antonio is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate and master’s degree. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404/679-4500, or visit <http://www.sacscoc.org> for questions about the accreditation of Texas A&M University-San Antonio.

Teacher/Education Certification Accredited by the Texas State Board of Education Certification.

## **STUDENT ACADEMIC RESPONSIBILITIES**

Students are expected to familiarize themselves thoroughly with the regulations of the University, to accept responsibilities for course requirements for their degrees, and to make inquiries in case of doubt. It shall not be the University's responsibility should complications arise because of failure to follow regulations and requirements. Regulations will not be waived nor exceptions to requirements made on a plea of ignorance. Students, therefore, should become familiar with all of the information related to their program of study contained in the on-line university catalog.

Personal announcements sent to students through A&M-San Antonio’s e-mail are the official means of communicating course and university business with students—not the U.S. Mail and not other e-mail addresses. Students must check their A&M-San Antonio e-mail accounts regularly, if not daily. Not having seen an important A&M-San Antonio e-mail message from a faculty member, chair, dean or other University administrator is not accepted as an excuse for failure to take important action.

Campus safety is a high priority at A&M-San Antonio as we ensure the safety of all our students, faculty and staff. **JagE Alert** is the A&M-San Antonio comprehensive Emergency Notification System. Through this single site, students and employees can update their emergency contact information, see delivery statistics of previous emergency messages and access additional A&M-San Antonio emergency management resources. The JagE Alert address is <http://www.tamusa.edu/upd/emergencynotifications/index.html>.

## **EQUAL OPPORTUNITY POLICY**

In compliance with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and Executive Order 11246, Texas A&M University-San Antonio is open to all persons regardless of race, color, religion, sex, national origin, age or disability who are otherwise eligible for admission as students. A&M-San Antonio does not discriminate on the basis of disability in admission or access to its programs.

Texas A&M University-San Antonio is an Equal Opportunity/Affirmative Action Employer and no applicant or employee will be discriminated against because of race, color, age, religion, sex, national origin or disability in any personnel action. This University will not enter knowingly into contractual agreements for services or supplies with any firm failing to follow fair employment practices.

## **UNIVERSITY ASSESSMENT**

Students enrolled at Texas A&M University-San Antonio are required to participate in University assessment activities for the evaluation and improvement of University programs and curricula.

## **HISTORY**

Texas A&M University-San Antonio was created in 2000 to address an educational need in south San Antonio. The Texas Legislature asked The Texas A&M University System to establish a center that would offer junior- and senior-level courses in south San Antonio, an area that has been historically underserved in terms of higher education. The University, then known as Texas A&M University-Kingsville System Center-San Antonio, was approved by the Texas Higher Education Coordinating Board in January 2000. On May 23, 2009, Gov. Rick Perry signed Senate Bill 629 that created Texas A&M University-San Antonio as a stand-alone university.

## **MAIN CAMPUS LOCATION**

Situated in San Antonio's South Side, Texas A&M University-San Antonio serves an area comprising the greater San Antonio and Bexar County region and the surrounding South Texas counties. San Antonio, the county seat of Bexar County, is a city of approximately 1,330,000. Texas A&M University-San Antonio is located on approximately 700 acres southeast of the intersection of Loop 410 and S. Zarzamora. The address is: One University Way, San Antonio, TX 78224

## **MISSION OF THE UNIVERSITY**

A&M-San Antonio is reflective of the diverse and heritage rich community it serves. University and community partnerships provide a strong foundation for student and academic success and support interdisciplinary teaching and experiential learning. Faculty and staff collaborate to create comprehensive, industry-responsive academic and co-curricular programs that provide a transformative experience for all students. The University's inclusive environment inspires learning and fosters social development using relevant scholarship, research and public service. A&M-San Antonio graduates leave well-equipped with knowledge and marketable skills that prepare them for rewarding careers, responsible global citizenship and lifelong learning.

## **VISION**

A&M-San Antonio serves as an economic, research and social catalyst that will become nationally recognized for student and academic success, embracing all students, especially those from underrepresented communities.

## **ACADEMIC CALENDAR: 2019-2020**

Dates and times subject to change. Official Calendar and Registration information appears each semester with the Class Schedule.

<b>Fall 2019: Regular 16-week Session</b>		
<b>Registration Dates: TBD</b>		
August 5	Monday	Tuition & fee payment deadline for students registered prior to August 2
August 7	Wednesday	Drop for non-payment for students registered prior to August 2. Students dropped on this date will be subject to a 24-hour registration hold
August 15	Thursday	Tuition & fee payment deadline for students registered August 3 <sup>rd</sup> and later. A \$35 fee will be assessed for paying after this date
August 19	Monday	CONVOCAATION
August 20	Tuesday	Drop for non-payment for students registered August 3 <sup>rd</sup> and later. Students dropped on this date will be subject to a 24-hour registration hold
August 21	Wednesday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
August 22	Thursday	CLASSES BEGIN
August 24	Saturday	Weekend classes begin
August 30	Friday	Last day to register for Fall 16-Week Session
September 2	Monday	Labor Day Holiday. A&M-SA Closed: weekend classes will meet
September 9	Monday	Census Date
September 9	Monday	Deadline for students who have applied for Fall graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
September 9	Monday	Last day for students to apply for Fall 2019 graduation
September 10	Tuesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
September 12	Thursday	Application for Spring 2020 graduation can be submitted
September 26	Thursday	Fall 2019 Graduation Application Fee Payment Deadline
October 25	Friday	Last day to drop with an automatic "W"
October 28	Monday	Title IV 60% of semester (Financial Aid)
November 27-30	Wednesday-Saturday	Thanksgiving Holiday: No Classes
December 2	Monday	Application for Summer 2020 Graduation can be submitted
December 4	Wednesday	Last day to drop a course or withdraw from the University
<b>December 4</b>	Wednesday	Last day of Scheduled Weekday Classes
<b>December 5-6</b>	Thursday- Friday	Reading Days
December 9-14	Monday-Saturday	Final Examinations. See the A&M-SA academic calendar website for schedule
December 14	Saturday	End of Fall Semester
December 17	Tuesday	Commencement
December 17	Tuesday	All grades for Fall 16-week session due by Noon via Jagwire
December 23-January 1	Friday-Wednesday	Winter Break – A&M-SA Closed

## Fall 2019: Flex I Session (First 8-weeks)

### Registration Dates: TBD

August 5	Monday	Tuition & fee payment deadline for students registered prior to August 2
August 7	Wednesday	Drop for non-payment for students registered prior to August 2. Students dropped on this date will be subject to a 24-hour registration hold
August 15	Thursday	Tuition & fee payment deadline for students registered August 3 <sup>rd</sup> and later. A \$35 fee will be assessed for paying after this date
August 20	Tuesday	Drop for non-payment for students registered August 3 <sup>rd</sup> and later. Students dropped on this date will be subject to a 24-hour registration hold
August 21	Wednesday	Last day of students withdrawing to receive 100% refund and responsible for 0% of tuition
August 22	Thursday	CLASSES BEGIN
August 28	Wednesday	Last day to register for Fall Flex I Session
August 29	Thursday	Census Date
August 30	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
September 2	Monday	Labor Day Holiday. A&M-SA Closed: weekend classes will meet
September 9	Monday	Deadline for students who have applied for Fall graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
September 9	Monday	Last day for students to apply for Fall 2019 graduation
September 12	Thursday	Application for Spring 2020 graduation can be submitted
September 26	Thursday	Title IV 60% of semester (Financial Aid)
September 26	Thursday	Last day to drop with an automatic "W"
October 11	Friday	Last day to drop a course or withdraw from the University
October 15	Tuesday	Last day of Scheduled Classes
October 16-19	Wednesday-Saturday	Final Examinations
October 19	Saturday	End of Fall Flex I
October 23	Wednesday	All grades for Fall Flex I session due by Noon via Jagwire

## Fall 2019: Flex II Session (Second 8-weeks)

### Registration Dates: TBD

October 14	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
October 17	Thursday	Drop for Non-Payment
October 18	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
October 21	Monday	CLASSES BEGIN
October 25	Friday	Last day to register for Fall Flex II Session
October 28	Monday	Census date
October 29	Tuesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
November 15	Friday	Last day to drop with an automatic "W"
November 27-30	Wednesday-Saturday	Thanksgiving Holiday – No Classes
November 25	Monday	Title IV 60% of semester (Financial Aid)
December 6	Friday	Last day to drop a course or withdraw from the University
December 7	Saturday	Last day of Scheduled Classes
December 9-14	Monday-Saturday	Final Examinations
December 14	Saturday	End of Fall Flex II Session
December 17	Tuesday	All grades for Fall Flex II session due by Noon via Jagwire
December 23-January 1	Friday-Wednesday	Winter Break: A&M-SA closed

## Fall 2019: First 5-week Session

Registration Dates: TBD

August 5	Monday	Tuition & fee payment deadline for students registered prior to August 2
August 7	Wednesday	Drop for non-payment for students registered prior to August 2. Students dropped on this date will be subject to a 24-hour registration hold
August 15	Thursday	Tuition & fee payment deadline for students registered August 3 <sup>rd</sup> and later. A \$35 fee will be assessed for paying after this date
August 20	Tuesday	Drop for non-payment for students registered August 3 <sup>rd</sup> and later. Students dropped on this date will be subject to a 24-hour registration hold
August 21	Wednesday	Last day of students withdrawing to receive 100% refund and responsible for 0% of tuition
August 22	Thursday	CLASSES BEGIN
August 26	Monday	Last day to register for Fall First 5-week Session
August 27	Tuesday	Census Date
August 28	Wednesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
September 2	Monday	Labor Day Holiday. A&M-SA closed: Weekend classes will meet
September 9	Monday	Deadline for students who have applied for Fall graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
September 9	Monday	Last day for students to apply for Fall 2019 graduation
September 12	Thursday	Application for Spring 2020 graduation can be submitted
September 13	Friday	Last day to drop with an automatic "W"
September 13	Friday	Title IV 60% of semester (Financial Aid)
September 26	Thursday	Last day to drop a course or withdraw from the University
September 26	Thursday	Last day of Scheduled Classes
September 27-28	Friday-Saturday	Final Examinations
September 28	Saturday	End of Fall First 5-week session
October 1	Tuesday	All grades for Fall First 5-week Session due by Noon via Jagwire

## Fall 2019: Second 5-week Session

Registration Dates: TBD

September 23	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
September 27	Thursday	Drop for Non-Payment
September 27	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
September 30	Monday	CLASSES BEGIN
October 2	Wednesday	Last day to register for Fall Second 5-week Session
October 3	Thursday	Census date
October 4	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
October 18	Friday	Last day to drop with an automatic "W"
October 21	Monday	Title IV 60% of semester (Financial Aid)
October 25	Friday	Last day to drop a course or withdraw from the University
October 31	Thursday	Last day of Scheduled Classes
November 1-2	Friday-Saturday	Final Examinations
November 2	Saturday	End of Fall Second 5-week Session
November 5	Tuesday	All grades for Fall Second 5-week session due by Noon via Jagwire

## Fall 2019: Fall Third 5-week Session

Registration Dates: TBD

October 28	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
October 31	Thursday	Drop for Non-Payment
November 1	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
November 4	Monday	CLASSES BEGIN
November 6	Wednesday	Last day to register for Fall Third 5-week Session
November 7	Thursday	Census date
November 8	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
November 15	Friday	Last day to drop with an automatic "W"
November 27-30	Wednesday-Saturday	Thanksgiving Holiday, No Classes: All admin offices will be Closed Thursday-Saturday
December 2	Monday	Title IV 60% of semester (Financial Aid)
December 6	Friday	Last day to drop a course or withdraw from the University
December 12	Thursday	Last day of Scheduled Classes
December 9-14	Monday-Saturday	Final Examinations
December 14	Saturday	End of Fall Third 5-week Session
December 17	Tuesday	All grades for Fall Third 5-week session due by Noon via Jagwire
December 23-January 1	Friday-Wednesday	Winter Break: A&M-SA closed

## Spring 2020: Regular 16-week Session

Registration Dates: TBD

January 2	Thursday	A&M-SA Opens
January 6	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
January 9	Thursday	Drop for Non-Payment
January 10	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
January 13	Monday	CLASSES BEGIN
January 18	Saturday	Weekend Classes Begin
January 20	Monday	Martin Luther King Day. A&M-SA closed
January 21	Tuesday	Last day to register for Spring 16-week Session
January 29	Wednesday	Census Date
January 29	Wednesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
January 29	Wednesday	Deadline for students who have applied for Spring 2020 graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
January 29	Wednesday	Last day for students to apply for Spring 2020 graduation
January 29	Wednesday	Last day for students to apply for Summer 2020 graduation and participate in Spring 2020 Commencement ceremony
February 19	Wednesday	Spring 2020 Graduation Application Fee Payment Deadline
March 3	Tuesday	Application for Fall 2020 Graduation can be submitted
March 9-15	Monday-Sunday	Spring Break.
March 27	Friday	Last day to drop with an automatic "W"
March 30	Monday	Title IV 60% (Financial Aid)
May 1	Friday	Last day to drop a course or withdraw from the University
May 2	Saturday	Last day of Scheduled Classes
May 4-5	Monday-Tuesday	READING DAYS
May 6-12	Wednesday-Tuesday	Final Examinations: See the A&M SA academic calendar website for schedule
May 12	Tuesday	End of Spring Semester
May 15	Friday	All grades for Spring 16-week session due by Noon via Jagwire
May 15	Friday	Spring Commencement

## Spring 2020: Flex I Session (First 8-weeks)

Registration Dates: TBD

January 2	Thursday	A&M-SA Opens
January 6	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
January 9	Thursday	Drop for Non-Payment
January 10	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
January 13	Monday	CLASSES BEGIN
January 17	Friday	Last day to register for Spring Flex I Session
January 20	Monday	Martin Luther King Day. A&M-SA closed
January 21	Tuesday	Census Date
January 22	Wednesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
January 29	Wednesday	Deadline for students who have applied for Spring 2020 graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
January 29	Wednesday	Last day for students to apply for Spring 2020 graduation
January 29	Wednesday	Last day for students to apply for Summer 2020 graduation and participate in Spring 2020 Commencement ceremony
February 14	Friday	Title IV 60% of semester (Financial Aid)
February 14	Friday	Last day to drop with an automatic "W"
February 19	Wednesday	Spring Graduation Application Fee Payment Deadline
February 28	Friday	Last day to drop a course or withdraw from the University
March 3	Tuesday	Application for Fall 2020 Graduation can be submitted
March 3	Tuesday	Last day of Scheduled Classes
March 4-7	Wednesday-Saturday	Final Examinations
March 7	Saturday	End of Spring Flex I
March 11	Wednesday	All grades for Spring Flex I session due by Noon via Jagwire

## Spring 2020: Flex II Session (Second 8-weeks)

Registration Dates: TBD

March 2	Monday	Tuition & Fee payment deadline A \$35 fee will be assessed for paying after this date
March 4	Wednesday	Drop for Non-Payment
March 9-15	Monday-Sunday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
March 9-15	Monday-Sunday	Spring Break
March 16	Monday	CLASSES BEGIN
March 20	Friday	Last day to register for Spring Flex II Session
March 23	Monday	Census date
March 24	Tuesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
April 15	Wednesday	Last day to drop with an automatic "W"
April 17	Friday	Title IV 60% of semester (Financial Aid)
May 1	Friday	Last day to drop a course or withdraw from the University
May 5	Tuesday	Last day of Scheduled Classes
May 6-12	Wednesday-Tuesday	Final Examinations
May 12	Tuesday	End of Spring Flex II
May 15	Friday	All grades for Spring Flex II session due by Noon via Jagwire
May 15	Friday	Spring 2020 Commencement

## Spring 2020: First 5-week Session

Registration Dates: TBD

January 2	Thursday	A&M-SA Opens
January 6	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
January 9	Thursday	Drop for Non-Payment
January 10	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
January 13	Monday	CLASSES BEGIN
January 15	Wednesday	Last day to register for Spring First 5-week Session
January 16	Thursday	Census Date
January 17	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
January 20	Monday	Martin Luther King Day. A&M-SA closed
January 29	Wednesday	Deadline for students who have applied for Spring 2020 graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
January 29	Wednesday	Last day for students to apply for Spring 2020 graduation
January 29	Wednesday	Last day for students to apply for Summer 2020 graduation and participate in Spring 2020 Commencement ceremony
January 31	Friday	Last day to drop with an automatic "W"
February 3	Monday	Title IV 60% of semester (Financial Aid)
February 7	Friday	Last day to drop a course or withdraw from the University
February 13	Thursday	Last day of Scheduled Classes
February 14-15	Friday-Saturday	Final Examinations
February 15	Saturday	End of Spring First 5-week session
February 18	Tuesday	All grades for Spring Flex I session due by Noon via Jagwire

## Spring 2020: Second 5-week Session

Registration Dates: TBD

February 10	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
February 13	Thursday	Drop for Non-Payment
February 14	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
February 17	Monday	CLASSES BEGIN
February 19	Wednesday	Last day to register for Spring Second 5-week Session
February 20	Thursday	Census date
February 21	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
March 6	Friday	Last day to drop with an automatic "W"
March 9-15	Monday-Sunday	Spring Break
March 16	Monday	Title IV 60% of semester (Financial Aid)
March 20	Friday	Last day to drop a course or withdraw from the University
March 26	Thursday	Last day of Scheduled Classes
May 27-28	Friday-Saturday	Final Examinations
March 28	Saturday	End of Spring Second 5-week session
March 31	Tuesday	All grades for Spring Second 5-week session due by Noon via Jagwire

## Spring 2020: Third 5-week Session

Registration Dates: TBD

March 23	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
March 26	Thursday	Drop for Non-Payment
March 21	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
March 30	Monday	CLASSES BEGIN
April 1	Wednesday	Last day to register for Spring Third 5-week Session
April 2	Thursday	Census date
April 3	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
April 17	Friday	Last day to drop with an automatic "W"
April 20	Monday	Title IV 60% of semester (Financial Aid)
April 24	Friday	Last day to drop a course or withdraw from the University
April 30	Thursday	Last day of Scheduled Classes
May 1-2	Friday-Saturday	Final Examinations
May 2	Saturday	End of Spring Third 5-week session
May 12	Tuesday	All grades for Spring Third 5-week session due by Noon via Jagwire
May 15	Friday	Spring 2020 Commencement

## Summer 2020: Maymester Session

### Registration Dates: TBD

May 4	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
May 7	Thursday	Drop for Non-Payment
May 12	Tuesday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
May 13	Wednesday	CLASSES BEGIN
May 14	Thursday	Census Date – No registration beyond this point
May 15	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
May 25	Monday	Memorial Day. A&M-SA closed
May 26	Tuesday	Last day to drop a course or withdraw from the University
May 29	Friday	Last day of classes
May 29	Friday	Final Exam
May 29	Friday	End of Session
June 1	Monday	All grades for Maymester session due by Noon via Jagwire

## Summer 2020: Summer 10-week Session

### Registration Dates: TBD

June 1	Monday	Tuition & Fee payment deadline A \$35 fee will be assessed for paying after this date
June 4	Thursday	Drop for Non-Payment
June 5	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
June 8	Monday	Classes Begin
June 12	Friday	Last day to register for Summer 10-week Session
June 23	Tuesday	Deadline for students who have applied for Summer 2020 graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
June 23	Tuesday	Last day for students to apply for Summer 2020 graduation and participate in Fall 2020 Commencement Ceremony
June 23	Tuesday	Census Date
June 24	Wednesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
June 29	Monday	Summer 2020 Graduation Application Fee Payment Deadline
July 3	Friday	Independence Day Holiday. A&M-SA closed
July 17	Friday	Last day to drop with an automatic "W"
July 20	Monday	Title IV 60% of semester (Financial Aid)
July 30	Thursday	Last day to drop a course or withdraw from the University
August 11	Tuesday	Last day of Scheduled Classes
August 12-15	Wednesday-Saturday	Final Examinations
August 15	Saturday	End of Summer 10-week Session
August 18	Tuesday	All grades for Summer 10 week session due by noon via Jagwire

## Summer 2020: Summer 8-week Session

### Registration Dates: TBD

June 1	Monday	Tuition & Fee payment deadline A \$35 fee will be assessed for paying after this date
June 4	Thursday	Drop for Non-Payment
June 5	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
June 8	Monday	Classes Begin
June 12	Friday	Last day to register for Summer 8-week Session
June 15	Monday	Census Date
June 23	Tuesday	Deadline for students who have applied for Summer 2020 graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
June 23	Tuesday	Last day for students to apply for Summer 2020 graduation and participate in Fall 2020 Commencement Ceremony
June 16	Tuesday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
June 29	Monday	Summer 2020 Graduation Application Fee Payment Deadline
July 3	Friday	Independence Day Holiday. A&M-SA closed
July 10	Friday	Title IV 60% of semester (Financial Aid)
July 14	Tuesday	Last day to drop with an automatic "W"
July 24	Friday	Last day to drop a course or withdraw from the University
July 28	Tuesday	Last day of Scheduled Classes
July 29-August 1	Wednesday-Saturday	Final Examinations
August 1	Saturday	End of 8 week Session
August 4	Tuesday	All grades for Summer 8-week session due by noon via Jagwire

## Summer 2020: First Summer Session (5-weeks)

**Registration Dates: TBD**

June 1	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
June 4	Thursday	Drop for Non-Payment
June 5	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
June 8	Monday	Classes Begin
June 10	Wednesday	Last day to register for First Summer 5-week Session
June 11	Thursday	Census Date
June 12	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
June 23	Tuesday	Deadline for students who have applied for Summer 2020 graduation to complete Change of Name and/or Change of Major form(s) at the Welcome Center
June 23	Tuesday	Last day for students to apply for Summer 2020 graduation and participate in Fall 2020 Commencement Ceremony
June 19	Friday	Last day to drop with an automatic "W"
June 29	Monday	Title IV 60% of semester (Financial Aid)
June 29	Monday	Summer Graduation Application Fee Payment Deadline
June 29	Monday	Last day to drop a course or withdraw from the University
July 3	Friday	Independence Day Holiday. A&M-SA closed
July 8	Wednesday	Last day of Scheduled Classes
July 9--11	Thursday--Saturday	Final Examinations
July 11	Saturday	End of First Summer 5 week Session
July 14	Tuesday	All grades for First Summer 5-week session due by noon via Jagwire

## Summer 2020: Second Summer Session (5-weeks)

**Registration Dates: TBD**

July 6	Monday	Tuition & Fee payment deadline. A \$35 fee will be assessed for paying after this date
July 9	Thursday	Drop for non-payment
July 10	Friday	Last Day of students withdrawing to receive 100% refund and responsible for 0% of tuition
July 13	Monday	Classes Begin
July 15	Wednesday	Last day to register for Second Summer 5-week Session
July 16	Thursday	Census Date
July 17	Friday	Students dropped for Non-Payment will be assessed a \$363 Reinstatement Fee if reinstating on or after this date
July 31	Friday	Last day to drop with an automatic "W"
August 3	Monday	Title IV 60% of semester (Financial Aid)
August 7	Friday	Last day to drop a course or withdraw from the University
August 12	Wednesday	Last day of Scheduled Classes
August 13- 15	Thursday--Saturday	Final Examinations
August 15	Saturday	End of Second Summer 5-week session
August 18	Tuesday	All grades for Second Summer 5-week session due by Noon via Jagwire

## **BOARD OF REGENTS AND UNIVERSITY ADMINISTRATION**

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### **TEXAS A&M UNIVERSITY SYSTEM BOARD OF REGENTS**

Elaine Mendoza, Chair – San Antonio

Tim Leach, Vice Chair – Midland

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### **SYSTEM ADMINISTRATIVE OFFICERS**

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# STUDENT ENROLLMENT

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## **ADMISSIONS**

Senator Frank L. Madla Building | (210)784-1300 | <http://www.tamusa.edu/admissions/>  
BeAJaguar@tamusa.edu | Admissions@tamusa.edu

Texas A&M University-San Antonio 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.

Applicants should answer questions on the admission application accurately. If the university grants a student admission on the basis of incorrect information or omitted facts, which, if known, would invalidate the applicant's eligibility, that student's admission is invalid. The completed application and supporting documents (i.e. official transcripts from ALL previous college and universities, official transcripts showing high-school graduation, and test scores: SAT or ACT) constitute the basis upon which the Office of Admissions determine eligibility for admission.

Applications will be processed after all required documentation has been received. An application is considered to be complete only when the Office of Admissions has received all required documentation, including completed application through ApplyTexas.org, required test scores, application fee, and official transcripts from all previous academic work. Completed applications are processed in the order in which they are made complete. Applicants are typically informed of their admission decision within two to three weeks from the point of completion. Incomplete applications will not be processed and will be withdrawn by the university after the census date for the term. Admission decision processing turnaround times may vary as deadlines approach.

Information concerning all aspects of the admissions process will be mailed directly from:

Office of Admission  
Texas A&M University-San Antonio  
One University Way  
San Antonio, TX 78224

Prospective students are strongly encouraged to apply early. *Students who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee, may need to submit updated transcripts and will be re-evaluated to determine admissibility.*

## **UNDERGRADUATE ADMISSION - DOMESTIC STUDENTS**

### ***Application Fee***

Applicants applying or reapplying to Texas A&M University-San Antonio are required to pay a non-refundable application fee of \$15. Each application submitted incurs a required non-refundable application fee, regardless of completion status or admission decision. It is recommended that payment be submitted via the ApplyTexas application. However, payment is also currently accepted in person (cash, card, check, money order or via mail by check, money order) and is accepted at the Student Business Services Office located in room 135 in the Frank L. Madla Building located at main campus or mailed to:

Student Business Services  
Texas A&M University-San Antonio  
One University Way  
San Antonio, TX 78224

**Application Fee Waivers**

Students may qualify for an admissions application fee waiver. Please note that checking off the application fee waiver indicator on the ApplyTexas application does not automatically waive application fees. Appropriate documentation is required to be eligible for an application fee waiver. Acceptable documentation for a fee waiver include: SAT/College Board waiver, ACT waiver, SAR from the appropriate academic year indicating an EFC of \$0.

Other waivers may be considered and will be reviewed upon submission. These items can be submitted to the Office of Admissions via fax, mail, or in person. Applicants who do not submit waiver documentation or do not qualify for a waiver will be responsible for application fee payment.

**Application and Transcript Submission**

A student must complete the ApplyTexas application online at [applytexas.org](http://applytexas.org). In cases where multiple applications are submitted, the application submitted most recently, regardless of term or type, will void all previously submitted applications. Applicants must submit official transcripts from all institutions attended. To be considered official, transcripts should have: an original signature of a school official and/or the school seal, must be printed within a year of the submission date, must be received directly from the sending institution, or hand-delivered in a sealed envelope from the sending institution. Additionally, the Office of Admissions accepts electronic documents as official when sent via a secure electronic transcript service (i.e. E-scrip, National Student Clearinghouse, Parchment, Trans Networks). High school transcripts are accepted from the school’s registrar or counselor through the Texas Records Exchange (TREx). Home school transcripts must be notarized in order to be considered official, and the notarization must be on the transcript and not on a separate attachment. Final high school transcripts can be dated over one year from the print date as long as it has an original signature of a school official and/or the school seal, is received directly from the sending institution, or is hand-delivered in a sealed envelope from the sending institution.

**Foreign Documents and Credits**

Domestic applicants who have prior course work from a foreign college or university will be required to submit a course-by-course foreign credential evaluation from one of the four agencies designated in the International Admissions section. Foreign transcripts are not required.

Applicants who have participated in a study abroad program may also be required to submit a course-by-course foreign credential evaluation from one of the five agencies designated in the International Admissions section.

**Freshman Admission Procedure**

First-time freshmen applicants are students who have not been enrolled in any college-level institution except while still in high school. To apply for admission, the following items are required:

- Apply Texas application ([www.applytexas.org](http://www.applytexas.org))
- Application fee of \$15 or an applicable waiver
- Official high school transcript that reflects completion of course work through the end of the junior year (6 semester transcript)
- Official test scores from SAT or ACT

The application for admission and required supporting documentation (i.e. test scores and transcripts) must be submitted to the Office of Admissions by the following deadlines to ensure the application is processed prior to the beginning of the semester:

Fall Priority	January 15
Fall Final Deadline	June 30
Spring Priority	October 1

Spring Final Deadline	December 1
Summer Priority	April 1
Summer Final Deadline	April 30

The application will not be accepted after the final deadline date. Supporting documents to complete admission files must be received by 5 p.m. on the date of the final deadline. Deadlines that fall on a weekend or holiday will be extended to the following business day. Applications that are not completed by the final deadline will not be processed for an admission decision for that application term and will be withdrawn by the university.

Applicants must request an official transcript indicating grades at least through the applicant’s junior year. The transcript should include: current class rank, GPA, diploma program, and completed, or if necessary, in progress coursework that will be completed through the senior year. Any student who has graduated from high school at the time of application submission must provide an official final high school transcript which includes: date of graduation, final class rank, GPA, diploma program, and final grades from all courses taken. To be considered official, transcripts should have: an original signature of a school official and/or the school seal, must be printed within a year of the submission date, must be received directly from the sending institution, or hand-delivered in a sealed envelope from the sending institution. Additionally, the Office of Admissions accepts electronic documents as official when sent via a secure electronic transcript service (i.e. E-scrip, National Student Clearinghouse, Parchment, Trans Networks). High school transcripts are accepted from the school’s registrar or counselor through the Texas Records Exchange (TREx). Home school transcripts must be notarized in order to be considered official. Although a six semester transcript is required to apply for admission, students that are granted admission and enroll will be required to submit a final high school transcript verifying high school graduation.

*Students who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee, may need to submit updated transcripts, and will be re-evaluated to determine admissibility.*

**Freshman Admission Requirements**

***State of Texas Uniform Admission Policy***

Texas Education Code (TEC) 51.803 – 51.809 requires all first-time freshmen seeking admission at a public four-year institution in Texas to satisfy one of the following college readiness standards in order to be eligible to be considered for admission:

- Submit a transcript that indicates the student will graduate under the state’s Recommended or Distinguished/Advanced High School Programs; or
- Submit a transcript that shows the student will graduate under the state’s Foundation High School program.
  - \*Students graduating under the Foundation program must show proof of the distinguished level of achievement to be eligible for top 25% automatic admission.
- Satisfied SAT or ACT's College Readiness Benchmarks

***Out-of-State and Home Schooled Students***

Out-of-state and home schooled students are exempt from the Uniform Admissions Policy.

***Private High School Students in Texas***

Students attending a private high school in Texas must claim an exemption to the state’s high school coursework requirements by one of the following methods if their program is not indicated on their transcript:

1. Submit official SAT/ACT scores

SAT benchmark scores	480 EBRW and 530 for Math
ACT benchmark scores	18 English, 22 Reading, 22, Math, 23, Science

2. Verify coursework equal in content or rigor

Applicants who attend a private high school in Texas may be exempt if they complete coursework that is equal in content and rigor to one of the state’s graduation programs. To claim an exemption under this option, students must submit an exemption form signed by an official representative. Additional information about the exemption and the exemption form can be found by visiting [www.tamusa.edu/admissions](http://www.tamusa.edu/admissions)

**Testing**

Applicants must either take the Scholastic Assessment Test (SAT) or American College Test (ACT). Students are encouraged to take the SAT or the ACT during the spring of their junior year in high school. Scores from tests taken later are acceptable if submitted by the freshman admission deadline. For the purposes of admission Texas A&M-San Antonio will consider students highest section scores across all the dates the SAT or ACT were taken to form the highest possible composite score, also known as super scoring.

**Automatic Admission**

<b>Class Rank/GPA</b>	<b>SAT Composite Score (Old/New)</b>	<b>ACT Composite Score</b>
<b>Top 25%</b>	No minimum	No minimum
<b>GPA &gt;=3.25</b>	No minimum	No minimum
<b>No minimum</b>	1020/1100 or higher	22 or higher
<b>3.00</b>	900/980	19
<b>2.50</b>	940/1020	20
<b>2.00</b>	980/1060	21

**Admission Committee Review**

Applicants who do not meet automatic admission requirements may still be considered for admission under the Admission Committee Review process. The Undergraduate Admission Committee will review an applicant’s high school class rank, standardized test scores, and high school coursework. The committee will also consider other factors, such as:

- Participation in extracurricular activities
- Leadership experience
- Community service
- Talents and awards
- Employment and internships
- Summer activities
- Experience surmounting obstacles to pursue higher education

Although a personal statement essay, resume, and letters of recommendation are not required for regular admission, students who do not meet regular or automatic admission requirements may be required to submit these supplemental materials for the admission committee to review. These items may be submitted to the Office of Admissions by email at [admissions@tamusa.edu](mailto:admissions@tamusa.edu) or by mail:

Office of Admissions  
Texas A&M University-San Antonio  
One University Way  
San Antonio, TX 78224

Students admitted under committee review may be subject to specific enrollment conditions established by the Undergraduate Admission Committee based on the applicant's individual circumstances and academic record.

Admission to the University does not guarantee admission to a particular college or academic program. For more information related to degree requirements, applicants are encouraged to speak to their Academic Advisor at New Student Orientation.

### **Admission Denial**

Applicants who are denied admission based on not meeting freshman admission requirements have the right to appeal the decision. Appeals are evaluated on a case-by-case basis and will not be accepted after June 30 (fall term), December 1 (spring term) or April 30 (summer terms). Submission of an appeal does not guarantee a change in the admission decision. Applicants who have extenuating circumstances or those that have improved academic credentials may submit an appeal. In order to be considered for an Admissions Decision Appeal, applicants are required to submit the following documents to the Office of Admissions: 1) Admissions Decision Appeal Form 2) A personal statement addressing the reason for the appeal and a plan for success at A&M-San Antonio and 3) Updated academic credential information (official high school transcript; test scores).

### **ACT Residual Testing**

Texas A&M University-San Antonio (A&M-SA) offers alternative admission testing for applicants who have applied to the university and who were unable to take the SAT or ACT on a nationally scheduled test date. The ACT Residual scores are only valid at the institution where the applicant takes the test. Therefore, the exam is only available to applicants who have applied to A&M-SA. No student reports or high school report will be generated and no additional score reports may be ordered from A&M-SA or ACT to send to another institution. Students may not repeat Residual testing until 60 days have passed since their previous testing, but they may take the national ACT immediately. If the 60-day limit is violated, the retest scores will be cancelled automatically without refund. Residual testing can only be used for admission purposes at A&M-SA, the ACT residual exam is not accepted for NCAA initial eligibility, cannot be used for TSI exemptions, and cannot be used when applying for scholarships.

### ***Registration for ACT Residual Testing***

Registration information and test fees are collected by the university. Students must schedule their appointment with the Testing Center and pay a non-refundable fee. Once scheduled, the Testing Center will work with the Office of Admissions to verify student's eligibility. ACT permits examinees to use a calculator on the Mathematics test but not on any other tests. Use of a calculator is optional. All problems can be solved without a calculator. Any four-function, nonscientific, or graphing calculator may be used, unless it is specifically prohibited by ACT. Please visit <http://www.actstudent.org/> to see if your calculator will be allowed prior to the test day.

### ***Preparation***

Students can take practice tests on the ACT website at <http://www.actstudent.org/>.

### ***Test Day***

On the day of the test, you should report to the building and room listed when you registered for the exam. You must bring a current photo-id (issued by a school, employer, or city/state/federal government agency). The test is comprised of four sections, English, Math, Reading, and Science. Actual test time is 2 hours and 55 minutes.

Candidates should allot for 4 hours for the exam, this includes the check-in process, the reading of test instructions, and a break.

### **Test Scores**

Students will not receive a copy of their test score, rather test scores will be forwarded to the Office of Admissions for review of admissibility. Students will receive notification by mail and e-mail regarding the admission decision post-test. Students may view their score through their student portal on the admissions checklist.

### **Transfer Admission**

Transfer applicants have graduated from high school and matriculated into a college/university. Developmental courses and vocational/technical courses are not considered academic and will not be transferable.

### **Transfer Admission Deadlines**

To ensure full consideration, the completed ApplyTexas application (for U.S. Transfer Admission) and all required documents and supporting material must be on file in the Office of Admissions by the following dates:

Fall Priority	March 15
Fall Final Deadline	August 5
Spring Priority	November 1
Spring Final Deadline	December 20
Summer Priority	April 1
Summer Final Deadline	July 1

The application will not be accepted after the final deadline date. Supporting documents to complete admission files must be received by 5 p.m. on the date of the final deadline. Deadlines that fall on a weekend or holiday will be extended to the following business day. Applications that are not completed by the final deadline will not be processed for an admission decision for that application term and will be withdrawn by the university.

### **Freshmen Transfer**

Freshmen transfer students with 29 semester credit hours or less (not including developmental courses) must meet the following admission criteria:

- Freshmen admissions requirements listed above
- Cumulative college transfer grade point average (GPA) of 2.0 on a 4.0 scale
- Must be eligible to return to all previously attended colleges or universities

### **Application Process**

- Complete the online **transfer** application for admission for Texas A&M University-San Antonio at [www.applytexas.org](http://www.applytexas.org).
- Pay non-refundable \$15 application fee.
- Submit your official final high school transcript with graduation date posted
- Submit your official SAT or ACT scores.
- Submit official transcripts from ALL prior universities or colleges attended. Transcripts should not be dated more than one year old from the print date on the transcript. Transcripts should be sent via mail to:

Office of Admission  
Texas A&M University-San Antonio  
One University Way  
San Antonio, TX 78224

*If previous institutions participate in the sending of secure electronic transcripts (i.e. E-script, National Student Clearinghouse, Parchment, or Trans Networks), transcripts should be sent via email to: [Admissions@tamusa.edu](mailto:Admissions@tamusa.edu)*

Applications will not be evaluated until the above criteria have been met.

### ***Transfer Students***

Transfer students with 30 or more semester credit hours (not including developmental courses) must meet the following:

- Cumulative college transfer grade point average (GPA) of 2.0 on a 4.0 scale.
- Must be eligible to return to all previously attended colleges or universities

### ***Application Process***

Complete the online **transfer** application for admission for Texas A&M University-San Antonio at [www.applytexas.org](http://www.applytexas.org).

Pay non- refundable \$15 application fee.

Submit official transcripts from ALL prior universities or colleges attended. Transcripts should not be dated more than one year old from the print date on the transcript. Transcripts should be sent via mail to:

Texas A&M University-San Antonio  
Office of Admissions  
One University Way  
San Antonio, TX 78224

*If previous institutions participate in the sending of secure electronic transcripts (i.e. E-script, National Student Clearinghouse, Parchment, or Trans Networks), transcripts should be sent via email to: [Admissions@tamusa.edu](mailto:Admissions@tamusa.edu).*

*Students who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee, may need to submit updated transcripts, and will be re-evaluated to determine admissibility.*

Applications will not be evaluated until all official transcripts from previous colleges and/or universities are received and application fee payment has been made.

### ***Transfer Admission Appeal***

Applicants who were denied admission based on not meeting the 2.0 GPA admission requirements have the right to appeal the admissions decision. Appeals are evaluated on a case-by-case basis and will not be accepted after the final application deadline. Submission of an appeal does not guarantee a change in the admission decision.

Transfer applicants who have extenuating circumstances or those that have improved academic credentials may submit an appeal. In order to be considered for an admissions decision appeal, applicants are required to submit the following documents to the Office of Admissions:

- 1) Admissions Decision Appeal Form
- 2) A personal statement addressing reason for appeal and plan for success at A&M- San Antonio.

The Admissions Decision Appeal Form is available upon request to the Office of Admissions.

### **Readmission**

Former students who have had a break in enrollment of more than one year from the university, are in good academic standing with the university, and did not attend elsewhere after leaving A&M-SA are only required to submit a **readmission** application and pay the \$15 application fee.

- Former students who have had a break in enrollment of more than one year from the university who have enrolled at another institution after leaving A&M-SA and who are in good academic standing at that institution, are required to submit a **readmission** application, pay the \$15 application fee, and must request official transcripts to be sent to the Office of Admissions.

Readmission applications can be submitted at [www.applytexas.org](http://www.applytexas.org). If work from former institutions is evaluated after readmission and it is determined that the student's transfer grade point average is below 2.0, the student will be deemed ineligible to be readmitted.

### ***Reinstated Students***

Texas A&M-San Antonio students who have been academically dismissed 2 or more times or left as an Enforced Withdraw student must meet the following requirements:

- Apply online at [applytexas.org](http://applytexas.org).
- Pay a non-refundable application processing fee of \$15
- Submit official college transcripts from all institutions attended after leaving Texas A&M University-San Antonio
- Submit official high school transcript (if necessary)
- Submit Appeal for Undergraduate Reinstatement by petition deadline

Applications will not be evaluated until all official transcripts from previous colleges and/or Universities are received, application fee payment has been made, and the Appeal for Undergraduate Reinstatement has been submitted to the Office of Student Success.

### ***Reinstatement Application Deadlines:***

- Fall deadline: June 15
- Spring deadline: October 15
- Summer deadline: March 15

For further information on academic standing, please refer to the Scholastic Probation and Dismissal section of the catalog.

### **Post Baccalaureate Students**

Applicants who have earned a bachelor's degree and now wish to pursue a second bachelor's degree. Must meet the following:

- Must have earned a bachelor's degree from a regionally accredited institution
- Cumulative college transfer grade point average (GPA) of 2.0 on a 4.0 scale.
- Must be eligible to return to all previously attended colleges or universities

### **Application Process**

- Complete the online **transfer** application for admission for Texas A&M University-San Antonio at [www.applytexas.org](http://www.applytexas.org).
- Pay non-refundable \$15 application fee.
- Submit official transcripts from ALL prior universities or colleges attended. Transcripts should not be dated more than one year old from the print date on the transcript. Transcripts should be sent via mail to:

Texas A&M University-San Antonio  
Office of Admissions  
One University Way  
San Antonio, TX 78224

*If previous institutions participate in the sending of secure electronic transcripts (i.e. E-script, National Student Clearinghouse, Parchment, or Trans Networks), transcripts should be sent via email to: [Admissions@tamusa.edu](mailto:Admissions@tamusa.edu).*

*Students who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee and will be re-evaluated to determine admissibility.*

Applications will not be evaluated until all official transcripts from previous colleges and/or universities are received and application fee payment has been made.

### **Transient Students**

Applicants who are not pursuing a degree at Texas A&M University-San Antonio, must meet the following criteria:

- Must be eligible to return to all previous colleges and universities

### **Application Process**

- Complete the online **transient** application for admission for Texas A&M University-San Antonio at [www.applytexas.org](http://www.applytexas.org).
- Pay non-refundable \$15 application fee.
- Submit official transcript from most recent college or university attended. Transcript should not be dated more than one year old from the print date on the transcript.

Transcripts should be sent via mail to:

Texas A&M University-San Antonio  
Office of Admissions  
One University Way  
San Antonio, TX 78224

*If previous institutions participate in the sending of secure electronic transcripts (i.e. E-script, National Student Clearinghouse, Parchment, or Trans Networks), transcripts should be sent via email to: [Admissions@tamusa.edu](mailto:Admissions@tamusa.edu).*

*Students who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee, may need to submit updated transcripts, and will be re-evaluated to determine admissibility.*

Applications will not be evaluated until the official transcript from most recent college or university attended is received and application fee payment has been made.

Transient students are admitted for one semester at a time. If continued enrollment is desired, students must reapply. Additionally, transient students are not eligible for financial assistance, must show proof of TSI compliance to register, do not have transfer coursework articulated, and may need to meet with an advisor for registration.

## **INTERNATIONAL UNDERGRADUATE ADMISSIONS**

*Senator Frank L. Madla Building, Suite 309 | (210)784-1309 | [www.tamusa.edu/InternationalAffairs](http://www.tamusa.edu/InternationalAffairs) | [International.Affairs@tamusa.edu](mailto:International.Affairs@tamusa.edu)*

Texas A&M University-San Antonio 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.

The Office of International Affairs' (OIA) mission is to enrich and foster the educational and work experience of Texas A&M University-San Antonio's (A&M-SA) international community. The OIA serves as a welcoming presence for A&M-SA's international students, and international faculty. The OIA is the institutional resource that facilitates and oversees the lawful immigration status of foreign nationals and non-U.S. citizens who seek to enter the U.S to receive an education, or to work at A&M-SA while protecting the integrity of the institution through compliance with state, local, and federal regulations. You may reach us at [Internationalaffairs@tamusa.edu](mailto:Internationalaffairs@tamusa.edu)

### **Services and programs offered include:**

#### **International Students**

- International admissions and immigration advising to international students
- Study Abroad International Travel
- International Student Insurance
- Provide information, resources, and support for DREAMERs
- Coordinate educational and cultural programs that foster global awareness

#### **International Faculty**

- Process visa applications, and permanent residency applications sponsored by the institution
- Act as a liaison among institutional departments and government agencies

If the university grants a student admission on the basis of incorrect information or omitted facts, which, if known, would invalidate the applicant's eligibility, that student's admission is invalid. The completed application and supporting documents (i.e. official transcripts from ALL previous college and universities, official transcripts showing high-school graduation, and test scores: SAT or ACT) constitute the basis upon which the Office of Admissions will determine eligibility for admission.

Applications will be processed after all admission required documentation has been received. An application is considered to be complete only when the Admission Office has received all required documentation for admissions, including completed application through [ApplyTexas.org](http://ApplyTexas.org), required test scores, application fee, foreign credentials, and official transcripts from all previous academic work as requested. Completed applications are processed in the order in which they are made complete. Applicants are typically informed of their admission decision within two week from the point of completion. Incomplete applications will not be processed and will be withdrawn by the university after the census date for the term. Admission decision processing turnaround times may vary as deadlines approach. We highly recommend students answer the questions on the application accurately.

Prospective students are strongly encouraged to apply early. Applicants who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee and will be re-evaluated to determine admissibility.

## **International Undergraduate Admissions**

### ***Application Fee***

Applicants applying or reapplying to Texas A&M University-San Antonio are required to pay a non-refundable application fee of \$50.00. Each application submitted incurs a required non-refundable application fee, regardless of completion status or admission decision. It is recommended that payment be submitted via the ApplyTexas application. However, payment is also currently accepted in person (cash, card, check, money order or via mail by check, or money order). All payments should be sent directly to:

Student Business Services  
Texas A&M University-San Antonio  
Frank L. Madla Building, Room 135  
One University Way  
San Antonio, TX 78224

### **Application and Transcript Submission**

A student must complete the ApplyTexas application online at [applytexas.org](http://applytexas.org). In cases where multiple applications are submitted, the application submitted most recently, regardless of term or type, will void all previously submitted applications. Applicants must submit official transcripts from all U. S. institutions attended in the United States or out of the United States. To be considered official, transcripts should have: an original signature of a school official and/or the school seal, must be printed within a year of the submission date, must be received directly from the sending institution, or hand-delivered in a sealed envelope from the sending institution. Additionally, the Office of Admissions accepts electronic documents as official when sent via a secure electronic transcript service (i.e. E-scrip, National Student Clearinghouse, Parchment, and Trans Networks). Only U.S. High school transcripts are accepted from the school's registrar or counselor through the Texas Records Exchange (TReX). Home school transcripts must be notarized in order to be considered official. Final high school transcripts can be dated over one year from the print date as long as it has an original signature of a school official and/or the school seal, is received directly from the sending institution, or is hand-delivered in a sealed envelope from the sending institution.

### **Foreign Documents and Credits**

Applicants who have prior course work from a foreign college or university will be required to submit a course-by-course foreign credential evaluation from an agency registered through the National Association of Credential Evaluation Services (NACES). The Office of International Affairs has a list of foreign credential evaluators listed on their website, found at [www.tamusa.edu/InternationalAffairs/](http://www.tamusa.edu/InternationalAffairs/)

Applicants who have participated in a study abroad program may also be required to submit a course-by-course foreign credential evaluation from a NACES member agency. Transcript evaluations from an evaluation service which is a member of the [National Association of Credential Evaluation Services](http://www.naces.org) is required, and will be accepted.

### **Texas Success Initiative (TSI)**

The Texas Success Initiative (TSI) requires students to be assessed in reading, writing and mathematical skills before enrolling in a Texas public college or university. Texas Education Code Section 51.3062 provides institutions of higher education a means of determining students' readiness to enroll in freshman-level course work.

Prior to registration, each student must be assessed in three skill areas (reading, writing, and mathematics) by taking the TSI examination and achieving the following scores:

- Mathematics – 350
- Reading – 351
- Writing: – Placement score of at least 340 and an essay score of at least a 4; OR Placement score of less than 340, an ABE Diagnostic level of at least a 4, and an essay score of at least a 5.

International students have the option to take the exam from their home country through a virtual proctoring network. Please contact the A&M-San Antonio Testing Center at [testing.center@tamusa.edu](mailto:testing.center@tamusa.edu) to inquire about this service. The fee for the completion of the assessment instrument will be paid by the student. Passing TSI scores are set by the Texas Higher Education Coordinating Board and are subject to change at any time. Please contact the Testing Center for the most up-to-date passing scores.

All students who are not TSI complete in Math will be required to enroll in the PAC Math co-requisite course each fall and spring until the student earns a "C" or better in the course and is deemed college ready. Students who are not TSI complete in any area (Reading, Writing, and/or Math) will also not be eligible to enroll in upper division (3000-4000) courses until the student demonstrates college readiness in that particular area.

**Concurrent or Transient Admission for International Students**

International students who are seeking to apply as concurrent or transient at Texas A&M-San Antonio *must* contact the Office of International Affairs and meet with the International Programs Advisor.

**Non-Degree Seeking International Students**

International students who are seeking to apply as non-degree seeking at Texas A&M-San Antonio must contact the Office of International Affairs or meet with the International Programs Advisor.

**Conditional Admission for International Students**

International applicants may be considered for conditional admission only if they are on a visa that does not fall under the F-1 category. Students on F-1 visa status will not be considered for conditional admission, *“The provisional issuance of Forms I-20 is a violation of 8 CFR 214.3(k). According to that regulation. A designated school official may not issue a Form I-20 until the appropriate school authority has determined that the prospective student’s qualifications meet all standards for admission at the school which has accepted the prospective student for enrollment in a full course of study.”*

**International Freshman Admission Procedure and Deadlines**

The application for admission and required supporting documentation (i.e. test scores and U.S. or foreign transcripts and/or foreign credential evaluations) must be submitted to the Office of Admissions by the following deadlines to ensure the application is processed prior to the beginning of the semester:

Fall Priority	TBD
Fall Final Deadline	June 25 (For students in the U.S.) July 1 (For students abroad)
Fall Final Required Admission Documents Deadline	July 25
Spring Priority	TBD
Spring Final Deadline	November 18 (For students abroad) December 2 (For students in the U.S.)
Spring Final Required Admission Documents Deadline	December 2
Summer Priority	TBD
Summer Final Deadline	TBD

The application will not be accepted after the final deadline date. Supporting documents to complete admission files must be received by 5 p.m. on the date of the final deadline. Deadlines that fall on a weekend or holiday will

be extended to the following business day. Applications that are not completed by the final deadline will not be processed for an admission decision for that application term and will be withdrawn by the university.

International applicants studying in the U.S. must request an official transcript indicating grades at least through the applicant's junior year. The transcript should include: current class rank, GPA, diploma program, and completed, or if necessary, in progress coursework that will be completed through the senior year.

Any student, who has graduated from high school at the time of application submission, must provide an official final high school transcript which includes: date of graduation, final class rank, GPA, diploma program, and grades from all courses taken. To be considered for admissions, official transcripts should have: an original signature of a school official and/or the school seal, must be printed within a year of the submission date, must be received directly from the sending institution, or hand-delivered in a sealed envelope from the sending institution. Additionally, the Office of Admissions accepts electronic documents as official when sent via a secure electronic transcript service (i.e. E-scrip, National Student Clearinghouse, Parchment, and Trans Networks). High school transcripts are accepted from the school's registrar or counselor through the Texas Records Exchange (TREx). Home school transcripts must be notarized in order to be considered official.

### **International Freshmen Admission Requirements**

#### ***State of Texas Uniformed Admissions Policy***

Texas Education Code (TEC) 51.803 – 51.809 requires all first-time freshmen seeking admission at a public four-year institution in Texas to satisfy one of the following college readiness standards in order to be eligible to be considered for admission.

- Successfully complete the Recommended, Advanced/Distinguished, Foundation with an Endorsement, Foundation, or Minimum High School Program, or complete the portion of the program that was available to them; or successfully complete a curriculum that is equivalent\* in content and rigor to the Distinguished, Advanced, Recommended, Foundation with an Endorsement, Foundation, or Minimum High School Program at a high school that is exempt from offering such programs; or
- Passed all five subject tests and earned a GED
- Rank in the top 50% of their high school graduating class
- Earn a cumulative high school grade point average (GPA) of 2.0 on a 4.0 scale (other scales will be converted to a 4.0 scale)
- SAT: Minimum score of 940 on the redesigned SAT (critical reading and math sections); 860 on the SAT taken prior to March 2016
- ACT: Minimum composite score of 18

\*Equivalencies must be determined by the high school counselor, or certifying official, using the High School Certification Form. If needed, form may be obtained from an A&M-SA Admission Counselor.

The units of study and acceptable high school courses are:

- English: 4 Credits;
- Laboratory Science: 4 Credits, at least 1 of which must be in Biology, Chemistry, or Physics;
- Mathematics: 4 Credits at the level of Algebra I or higher, which may include Plane Geometry;
- Social Studies: 4 Credits, which includes a 1/2 credit of Economics;
- Foreign Language: 2 Credits in one foreign language or American Sign Language.

### **Testing**

Applicants must either take the Scholastic Assessment Test (SAT) or American College Test (ACT). Students are encouraged to take the SAT or the ACT during the spring of their junior year in U. S. high schools. Scores from tests taken later are acceptable if submitted by the freshman admission deadline. For the purposes of admission Texas A&M-San Antonio will consider student's highest section scores across all the dates the SAT or ACT were taken to form the highest possible composite score, also known as super-scoring.

### **Automatic Admission**

Applicants who rank in the top 25% of their U. S. high school class and have graduated or will graduate from an accredited U.S. high school with the Recommended or Distinguished program type are automatically offered admission upon completion of their admission file Applicants who qualify for automatic admission are not required to meet the minimum SAT or ACT score requirements.

### **Regular Admission**

Applicants who graduated or will graduate from an accredited U.S. high school and who do not meet the automatic admission criteria as stated above must meet 2 of the 3 following requirements to be eligible for regular admission:

- Rank in the top 50% of their high school graduating class
- Earn a cumulative high school grade point average (GPA) of 2.0 on a 4.0 scale (other scales will be converted to a 4.0 scale)
- Satisfy the required scores on the SAT **or** ACT assessment:
  - SAT: Minimum score of 940 on the redesigned SAT (critical reading and math sections); 860 on the SAT taken prior to March 2016
  - ACT: Minimum composite score of 18

### **Readmission**

Students who have enrolled at another institution after leaving A&M-SA and who are in good academic standing at that institution must submit a readmission application and pay the \$50 application fee. Additionally, they must request that official transcripts be sent to the Office of Admissions. Readmission applications can be submitted at [www.applytexas.org](http://www.applytexas.org). If work from former institutions is evaluated after readmission and it is determined that the student's transfer grade point average is below 2.0, the student will be deemed ineligible to continue. Students who have been on scholastic probation or were academically dismissed from the university and are returning to the university should refer to the Scholastic Probation and Dismissal section of the catalog.

### **Admission Committee Review**

International applicants attending U.S. high schools who **do not meet automatic or regular admission requirements** may still be considered for admission under the Admission Committee Review process. The Undergraduate International Admission Committee will review an applicant's high school class rank, standardized test scores, and high school coursework. The committee will also consider other factors, such as:

- Participation in extracurricular activities
- Leadership experience
- Community service
- Talents and awards
- Employment and internships
- Summer activities
- Experience surmounting obstacles to pursue higher education

Although a personal statement essay, resume, and letters of recommendation are not required for regular admission, students who do not meet regular or automatic admission requirements are strongly encouraged to submit these supplemental materials for the admission committee to review. These items may be submitted to the Office of Admissions by email at [admissions@tamusa.edu](mailto:admissions@tamusa.edu) or by mail:

Office of Admissions  
Texas A&M University-San Antonio  
One University Way  
San Antonio, TX 78224

Students admitted under committee review may be subject to specific enrollment conditions established by the International Undergraduate Admission Committee based on the applicant's individual circumstances and academic record.

Admission to the University does not guarantee admission to a particular college or academic program. For more information related to degree requirements, applicants are encouraged to speak to their Academic Advisor at New Student Orientation.

### **Admission Denial**

Applicants who are denied admission based on not meeting freshman admission requirements have the right to appeal the decision (\*See exemption note below). Appeals are evaluated on a case-by-case basis and will not be accepted after August 10 (fall term), Jan 10 (spring term) or May 10 (summer terms). Submission of an appeal does not guarantee a change in the admission decision. Applicants who have extenuating circumstances or those that have improved academic credentials may submit an appeal. In order to be considered for an Admissions Decision Appeal, applicants are required to submit the following documents to the Office of Admissions: 1) Admissions Decision Appeal Form 2) A personal statement addressing the reason for the appeal and a plan for success at A&M-San Antonio.

**\*Note: Applicants who are on F-1 student visa and denied admission based on not meeting freshman admission requirements, cannot appeal the decision since F-1 students cannot be "conditionally" accepted.**

### **ACT Residual Testing**

Texas A&M University-San Antonio (A&M-SA) offers alternative admission testing for applicants who have applied to the university and who were unable to take the SAT or ACT on a nationally scheduled test date. The ACT Residual scores are only valid at the institution where the applicant takes the test. Therefore, the exam is only available to applicants who have applied to A&M-SA. No student reports or high school report will be generated and no additional score reports may be ordered from A&M-SA or ACT to send to another institution. Students may not repeat Residual testing until 60 days have passed since their previous testing, but they may take the national ACT immediately. If the 60-day limit is violated, the retest scores will be cancelled automatically without refund. Residual testing can only be used for admission purposes at A&M-SA, the ACT residual exam is not accepted for NCAA initial eligibility, cannot be used for TSI exemptions, and cannot be used when applying for scholarships.

### **Registration for ACT Residual Testing**

Registration information and test fees are collected by the university. Students must schedule their appointment with the Testing Center and pay a non-refundable exam fee. Once scheduled, the Testing Center will work with the Office of Admissions to verify student's eligibility. ACT permits examinees to use a calculator on the Mathematics test but not on any other tests. Use of a calculator is optional. All problems can be solved without a calculator. Any four-function, nonscientific, or graphing calculator may be used, unless it is specifically prohibited by ACT. Please visit <http://www.actstudent.org/> to see if your calculator will be allowed prior to the test day.

### **Preparation**

Students can take practice tests on the ACT website at <http://www.actstudent.org/>.

### **Test Day**

On the day of the test, you should report to the building and room listed when you registered for the exam. You must bring a current photo-id (issued by a school, employer, or city/state/federal government agency). The test is comprised of four sections, English, Math, Reading, and Science. Actual test time is 2 hours and 55 minutes. Candidates should allot for 4 hours for the exam, this includes the check-in process, the reading of test instructions, and a break.

### **Test Scores**

Students will not receive a copy of their test score, rather test scores will be forwarded to the Office of Admissions for review of admissibility. Students will receive notification by mail and e-mail regarding the admission decision post-test. Students may view their score through their student portal on the admissions checklist.

### **International Students Freshman Admission Requirements:**

International freshman students who seeking admission to a bachelor's program at Texas A&M University-San Antonio must submit the following requirements:

1. Complete an application for freshmen as international student, including the non-refundable \$50 application fee. The Apply Texas Application is available online at [www.applytexas.org](http://www.applytexas.org).
2. Official U.S. high school transcripts. You must submit official transcripts from all U.S. high schools that you have attended. An official transcript bears the original signature of a school official and/or an official seal.
3. Transcript evaluations from an evaluation service which is a member of the [National Association of Credential Evaluation Services](#) is required, and will be accepted. If the student has a foreign high school transcript, a foreign credential evaluation report document-by-document must be submitted for all high school and/or a course-by-course document for college coursework student has attended out of the United States. We do not need official foreign transcripts. *We only need the "foreign credential evaluation report."*
  - The foreign credential evaluation report. All international foreign transcripts must be first evaluated by an agency registered through the National Association of Credential Evaluation Services (NACES). The NACES website provides a list of agencies that are commonly used by students applying at Texas A&M University-San Antonio. The foreign credential evaluation report MUST reflect a detailed and official course-by-course description, and should not be more than one year old from the report's issued date.
  - Once your transcript is evaluated, the agency you choose must forward the evaluation report directly to:  
Office of Admissions  
One University Way  
San Antonio, Texas 78224
4. SAT or ACT scores: For the purpose of admissions, students must satisfy the required scores on the SAT or ACT assessment below:
  - SAT: Minimum score of 940 on the redesigned SAT (critical reading and math sections);
  - 860 on the SAT taken prior to March 2016.

- ACT: Minimum composite score of 18
- SAT code: 5996; ACT code 5350.

Equivalencies must be determined by the high school counselor, or certifying official, using the High School Certification Form. If needed, form may be obtained from an A&M-SA Admission Counselor.

5. Possess the equivalent of a 2.0 out of a 4.0 grade point average for admission consideration if coming from a foreign or domestic high school.
6. Proof of English Proficiency: The following scores are considered equivalent to the TOEFL scores of 500/173/61:
  - SAT Verbal 500; ACT Verbal 19 English; TAKS 2200 English/3 Writing; TAAS 1770; SLEP 53; or IELTS 5.0 overall band score. SAT or ACT scores are not required for admission but can be used for placement purposes.

Students may be eligible for a TOEFL waivers based on the following:

- Completion of the advanced-level Texas Intensive English Program (TIEP) offered by the Texas International Education Consortium (TIEC)
- Students who have completed their entire formal education at the secondary or postsecondary level in the following countries are exempt from the TOEFL requirement:

American Samoa	Ghana
Anguilla	Gibraltar
Antigua and Barbuda	Grenada
Australia	Guyana
Bahamas	Ireland
Barbados	Jamaica
Belize	Liberia
Bermuda	New Zealand
British Virgin Islands	Nigeria
Canada (except Quebec)	Saint Kitts and Nevis
Cayman Islands	Saint Lucia
Dominica	Trinidad/Tobago
Federated States of Micronesia	Turks and Caicos Islands
Gambia	United Kingdom

Please note: Applicants from Puerto Rico, where Spanish is the primary language, are required to submit a TOEFL or equivalent.

- Students who have completed all four years in an accredited U.S. high school.
- Students who have earned at least 12 transferrable semester credits AND completed English Composition I and II, with grades of C or better in each, in university-level courses from an accredited U.S. college or university, or an institution of higher education in one of the countries listed above, are exempt from TOEFL. ESL Courses will not count as transferrable courses. No online English courses are accepted for English Proficiency.
- ACCUPLACER 78 Reading/88 Writing/5 or higher on Essay can be used as a TOEFL exemption.

- Earned a bachelor’s degree from a US Institution.
7. Immigration Requirements: Proof of ability to meet personal and academic expenses.
    - a. A Financial Statement reflecting a minimum of \$33,887 (U.S.) per year (must be in the English language) is currently required to meet such expenses. The financial support documents must be less than six months from the issuing date. Student must submit this documentation to the Office of International Affairs.
    - b. Copy of Immigration documents: Visa, Passport, I-94, all I-20’s since the student entered to the United States. Student must submit this documentation to the Office of International Affairs

**International Students Transfer Admission Requirements**

Transfer applicants have graduated from high school and matriculated into a college/university. Developmental courses and vocational/technical courses are not considered academic and will not be transferable.

**International Transfer Admission Deadline**

To ensure full consideration, the completed ApplyTexas Application (for U.S. Transfer Admission) and all required documents and supporting material must be on file in the Office of International Affairs by the following dates:

	Fall Priority	TBD
	Fall Final Deadline	June 25 (For students in the U.S.) July 1 (For students abroad)
Fall Final Required Admission Documents Deadline		July 25
	Spring Priority	TBD
	Spring Final Deadline	November 18 (For students abroad) December 2 (For students in the U.S.)
Spring Final Required Admission Documents Deadline		December 2
	Summer Priority	TBD
	Summer Final Deadline	TBD

The application will not be accepted after the final deadline date. Supporting documents to complete admission files must be received by 5 p.m. on the date of the final deadline. Deadlines that fall on a weekend or holiday will be extended to the following business day. Applications that are not completed by the final deadline will not be processed for an admission decision for that application term and will be withdrawn by the university.

The application review process will not begin until all documents are received. To be considered official, U.S. transcripts should have: an original signature of a school official and/or the school seal, must be printed within one year, must be received directly from the sending institution, or hand-delivered in a sealed envelope from the sending institution. Additionally, the Office of Admissions accepts electronic documents as official when sent via a secure electronic transcript service (i.e. E-scrip, National Student Clearinghouse, Parchment, and Trans Networks). High school transcripts are accepted from the school’s registrar or counselor through the Texas Records Exchange (TREx). Home school transcripts must be notarized in order to be considered official. Final High School transcripts can be dated over one year from the print date as long as it has an original signature of a school official and/or the school seal, is received directly from the sending institution, or is hand-delivered in a sealed envelope from the sending institution.

**Conditional Admission for International Students**

International applicants may be considered for conditional admission only if they are on a visa that does not fall under the F-1 category. Students on F-1 visa status will not be considered for conditional admission, *“The provisional issuance of Forms I-20 is a violation of 8 CFR 214.3(k). According to that regulation. A designated school*

*official may not issue a Form I-20 until the appropriate school authority has determined that the prospective student's qualifications meet all standards for admission at the school which has accepted the prospective student for enrollment in a full course of study."*

**International Freshmen-transfer Admission Requirements:**

**Freshmen transfer students with 29 college credit hours or less (not including developmental courses) must meet the following admission criteria:**

- Freshmen admissions requirements listed above
- Cumulative college transfer grade point average (GPA) of 2.0 on a 4.0 scale.
- Must be eligible to return to all previously attended colleges or universities.

**International freshman-transfer students who seeking admission to a bachelor's program at Texas A&M University-San Antonio must submit the following requirements:**

1. Complete the online **international transfer** application for admission for Texas A&M University-San Antonio at [www.applytexas.org](http://www.applytexas.org).
2. Pay non-refundable \$50.00 application fee.
3. Submit official transcripts from all U.S. high schools that you have attended. An official transcript bears the original signature of a school official and/or an official seal.
4. Official U.S. college transcripts. You must submit official transcripts from all U.S. institutions that you have attended. An official transcript bears the original signature of a school official and/or an official seal.
5. Transcript evaluations from an evaluation service which is a member of the National Association of Credential Evaluation Services is required, and will be accepted. If the student has a foreign high school transcript, a foreign credential evaluation report document-by-document must be submitted for all high school and/or a course-by-course document for college coursework student has attended out of the United States. We do not need official foreign transcripts. *We only need the "foreign credential evaluation report."*
  - The foreign credential evaluation report. All international foreign transcripts must be first evaluated by an agency registered through the National Association of Credential Evaluation Services (NACES). The NACES website provides a list of agencies that are commonly used by students applying at Texas A&M University-San Antonio. The foreign credential evaluation report MUST reflect a detailed and official course-by-course description, and should not be more than one year old from the report's issued date.
  - Once your transcript is evaluated, the agency you choose must forward the evaluation report directly to:

The Office of Admissions  
One University Way  
San Antonio, Texas 78224

*If previous institutions participate in the sending of secure electronic transcripts (i.e. E-script, National Student Clearinghouse, Parchment, or Trans Networks), transcripts should be sent via email to: [Admissions@tamusa.edu](mailto:Admissions@tamusa.edu)*

Applications will not be evaluated until the above criteria have been met.

6. SAT or ACT scores: For the purpose of admissions, students must satisfy the required scores on the SAT or ACT assessment below:
  - SAT: Minimum score of 940 on the redesigned SAT (critical reading and math sections);
  - 860 on the SAT taken prior to March 2016.
  - ACT: Minimum composite score of 18
  - SAT code: 5996; ACT code 5350.

Equivalencies must be determined by the high school counselor, or certifying official, using the High School Certification Form. If needed, form may be obtained from an A&M-SA Admission Counselor.

7. Possess the equivalent of a 2.0 out of a 4.0 grade point average for admission consideration if coming from a foreign or domestic high school.
8. Proof of English Proficiency: The following scores are considered equivalent to the TOEFL scores of 500/173/61:
  - SAT Verbal 500; ACT Verbal 19 English; TAKS 2200 English/3 Writing; TAAS 1770; SLEP 53; or IELTS 5.0 overall band score. SAT or ACT scores are not required for admission but can be used for placement purposes.
  - Students may be eligible for a TOEFL waivers based on the following:
  - Completion of the advanced-level Texas Intensive English Program (TIEP) offered by the Texas International Education Consortium (TIEC)
  - Students who have completed their entire formal education at the secondary or postsecondary level in the following countries are exempt from the TOEFL requirement:

American Samoa	Ghana
Anguilla	Gibraltar
Antigua and Barbuda	Grenada
Australia	Guyana
Bahamas	Ireland
Barbados	Jamaica
Belize	Liberia
Bermuda	New Zealand
British Virgin Islands	Nigeria
Canada (except Quebec)	Saint Kitts and Nevis
Cayman Islands	Saint Lucia
Dominica	Trinidad/Tobago
Federated States of Micronesia	Turks and Caicos Islands
Gambia	United Kingdom

Please note: Applicants from Puerto Rico, where Spanish is the primary language, are required to submit a TOEFL or equivalent.

- Students who have completed all four years in an accredited U.S. high school.
- Students who have earned at least 12 transferrable semester credits AND completed English

Composition I or II, with grades of C or better in each, in university-level courses from an accredited U.S. college or university, or an institution of higher education in one of the countries listed above, are exempt from TOEFL. ESL Courses will not count as transferrable courses. No online English courses are accepted for English Proficiency.

- ACCUPLACER 78 Reading/88 Writing/5 or higher on Essay can be used as a TOEFL exemption.
- Earned a bachelor's degree from a US Institution.

9. Immigration Requirements: Proof of ability to meet personal and academic expenses.

- a. A Financial Statement reflecting a minimum of \$33,887 (U.S.) per year (must be in the English language) is currently required to meet such expenses. The financial support documents must be less than six months from the issuing date. Student must submit this documentation to the Office of International Affairs.
- b. Copy of immigration documents: Visa, Passport, I-94, all I-20's since the student entered to the United States. Student must submit this documentation to the Office of International Affairs.
- c. Transfer-In Form: Student must contact the Office of International Affairs to complete their SEVIS immigration transfer process.

### International Transfer Admission Requirements

**Transfer Students with 30 or more credit hours (not including developmental courses) must meet the following:**

- Cumulative college transfer grade point average (GPA) of 2.0 on a 4.0 scale.
- Must be eligible to return to all previously attended colleges or universities in and out of the United States.

**International transfer students seeking admission to a bachelor's program at Texas A&M University-San Antonio must submit the following requirements:**

1. Complete the online International Transfer application for admission, for Texas A&M University-San Antonio at <https://www.applytexas.org>.
2. Pay non-refundable \$50.00 application fee.
3. Official U.S. college transcript. The transcripts should not be dated more than one year old from the print date on the transcript. An official transcript bears the original signature of a school official and/or an official seal. Remedial or duplicate credits cannot be transferred.
4. Transcript evaluations from an evaluation service which is a member of the [National Association of Credential Evaluation Services](#) is required, and will be accepted. If the student has a foreign high school transcript, a foreign credential evaluation report document-by-document must be submitted for all high school and/or a course-by-course document for college coursework student has attended out of the United States. We do not need official foreign transcripts. *We only need the "foreign credential evaluation report."*
  - **The foreign credential evaluation report.** All international foreign transcripts must be first evaluated by an agency registered through the National Association of Credential Evaluation Services (NACES). The NACES website provides a list of agencies that are commonly used by students applying at Texas A&M University-San Antonio. The foreign credential evaluation report MUST reflect a detailed and official course-by-course description, and should not be more than one year old from the report's issued date.
  - Transcript or evaluation report can be sent directly to:

The Office of Admissions  
One University Way,  
San Antonio, Texas 78224

*If previous U.S. institutions participate in the sending of secure electronic transcripts (i.e. E-script, National Student Clearinghouse, Parchment, or Trans Networks), transcripts should be sent via email to: [admissions@tamusa.edu](mailto:admissions@tamusa.edu). Students who do not enroll for the term in which they are admitted are required to reapply, must pay an additional application fee and will be re-evaluated to determine admissibility.*

Applications will not be evaluated until all official transcripts from previous colleges and/or universities are received and application fee payment has been made.

5. Transfer grade point average of a 2.0 on a 4.0 grade point average.
6. Proof of English proficiency (see below).
7. Immigration Requirements: Proof of ability to meet personal and academic expenses.
  - a. A Financial Statement reflecting a minimum of \$33,887 (U.S.) per year (must be in the English language) is currently required to meet such expenses. The financial support documents must be less than six months from the issuing date. Student must submit this documentation to the Office of International Affairs.
  - b. Copy of immigration documents: Visa, Passport, I-94, all I-20's since the student entered to the United States. Student must submit this documentation to the Office of International Affairs
  - c. Transfer-In Form: Student must contact the Office of International Affairs to complete their SEVIA immigration transfer process.

***Proof of English Proficiency for Undergraduate Transfer Students***

Texas A&M University-San Antonio requires all applicants from foreign countries to demonstrate their ability to speak, write, and understand the English language by taking the Test of English as a Foreign Language (TOEFL) Exam. A minimum TOEFL score of 500 (paper-based) or 61 (Internet-based) is required. Students must use Texas A&M University-San Antonio's school code for the TOEFL, which is 6712.

The following scores are considered equivalent to the TOEFL scores of 500/173/61:

- SAT Verbal 500; ACT Verbal 19 English; TAKS 2200 English/3 Writing; TAAS 1770; SLEP 53; or IELTS 5.0 overall band score. SAT or ACT scores are not required for admission but can be used for placement purposes.

Students may be eligible for a TOEFL waivers based on the following:

- Completion of the advanced-level Texas Intensive English Program (TIEP) offered by the Texas International Education Consortium (TIEC).
- Students who have completed their entire formal education at the secondary or postsecondary level in the following countries are exempt from the TOEFL requirement:

American Samoa	Ghana
Anguilla	Gibraltar
Antigua and Barbuda	Grenada

Australia	Guyana
Bahamas	Ireland
Barbados	Jamaica
Belize	Liberia
Bermuda	New Zealand
British Virgin Islands	Nigeria
Canada (except Quebec)	Saint Kitts and Nevis
Cayman Islands	Saint Lucia
Dominica	Trinidad/Tobago
Federated States of Micronesia	Turks and Caicos Islands
Gambia	United Kingdom

**Please note:** Applicants from Puerto Rico, where Spanish is the primary language, are required to submit a TOEFL or equivalent.

- Students who have completed all four years in an accredited U.S. high school.
- Students who have earned at least 12 transferrable semester credits AND completed English Composition I and II, with grades of C or better in each, in university-level courses from an accredited U.S. college or university, or an institution of higher education in one of the countries listed above, are exempt from TOEFL. ESL Courses will not count as transferrable courses. No online English courses are accepted for English Proficiency. ACCUPLACER 78 Reading/88 Writing/5 or higher on Essay can be used as a TOEFL exemption.
- Earned a bachelor's degree from a US Institution.

#### **Conditional Admission for International Students**

International applicants may be considered for conditional admission only if they are not on a F-1 student visa. Students on F-1 visa status will not be considered for conditional admission, *"The provisional issuance of Forms I-20 is a violation of 8 CFR 214.3(k). According to that regulation. A designated school official may not issue a Form I-20 until the appropriate school authority has determined that the prospective student's qualifications meet all standards for admission at the school which has accepted the prospective student for enrollment in a full course of study."*

#### **UNDERGRADUATE TRANSFER CREDIT**

##### **Transfer Credit Calculation and Evaluation**

The transfer grade point average is calculated on all academic transferred college work the applicant has undertaken, whether passed or failed. Transfer grades cannot be used to raise the institutional grade point average at Texas A&M University-San Antonio.

Although general credit may be granted, not all course work will be used for graduation requirements. **For a timely evaluation, please see "Admission Deadlines" for information concerning submission of credentials to the Office of Admissions.**

### ***Transfer of academic credit from a regionally accredited institution***

The transfer of courses from other regionally accredited colleges and universities to the University is guided and controlled by the general provisions of the Texas Higher Education Coordinating Board (THECB) rules and regulations regarding transfer of credit, core curriculum and field of study courses.

A&M-San Antonio has an articulation agreement with the Alamo Colleges, as well as several other regional community colleges to facilitate the transfer of student and acceptance of lower level course credits.

### **Academic Fresh Start**

The “Right to an Academic Fresh Start” legislation, passed by the 73rd Texas Legislature, entitles residents of this state to seek admission to public institutions of higher education as undergraduate students without consideration of courses undertaken ten or more years prior to enrollment. This law gives students the option of electing to have coursework taken ten or more years prior to the starting date of the semester in which the applicant seeks to enroll either counted as usual or ignored for admission purposes. Applicants who elect to apply for admission under this law and who are admitted as students may not receive any course credit for courses undertaken ten or more years prior to enrollment.

The intent of the “Fresh Start” legislation is to provide students with an opportunity to clear their academic records, if they choose to do so, of all college-level work accumulated ten or more years ago. Students may not pick and choose what is to be ignored and what is not. Either all college hours ten or more years old are ignored or they are counted. Applicants interested in seeking a “Fresh Start” should contact the Office of Admissions to obtain the form for academic fresh start. Students may request the form via e-mail at: [beajaguar@tamusa.edu](mailto:beajaguar@tamusa.edu).

### **Transfer of credit from a non-regionally accredited institution or transfer of vocational/technical credit**

Applicants who have credit from a non-regionally accredited institution or vocational/technical credit will not be awarded credits at the time of admission. While some non-regionally accredited institutions provide ACE credit recommendations, the transferability of those credits is at the discretion of the University. Those wishing to petition courses that were not transferred at the point of admission may request a Course Evaluation Request form to be completed with an Academic Advisor for each course to be evaluated at the time of enrollment. The student will be required to provide documentation that references the content and learning outcomes of the course and the instructor’s academic qualifications. The University recognizes vocational/technical credit for coursework taken on a non-credit basis only in the Bachelor of Applied Arts and Sciences.

### ***Core Complete Transfer***

A student who successfully completes the core curriculum of another state-assisted institution of higher education in Texas may transfer that block of courses to the University. The student will receive academic credit for each of the courses transferred, only when the transcript indicates “Core Complete.” A student transferring to the University who has not completed the common core curriculum will be required to complete his or her common core curriculum as specified by the University.

### ***Transfer Credit for Military Service***

Although not required for admission evaluation, the university requires submission of the Joint Services Transcript (JST) in order for military credit to be awarded. ACE transfer credit guidelines are used for awarding credit. These guidelines can be found at: <http://www.acenet.edu/higher-education/topics/pages/military-evaluations.aspx>. Although general credit may be granted, not all course work will necessarily be used for degree requirements. The university accepts the College Credit for Heroes (CCFH) evaluation. Students wishing to be awarded transfer credit from CCFH must also submit an official JST.

DLPT scores will be accepted if they are posted on an official JST or sent directly to A&M-San Antonio.

The university has created a Texas Success Initiative (TSI) Military exemption waiver form to make the military TSI exemption clearer and the process easier for military members. For additional assistance, please visit the Office of Military Affairs.

### **Undergraduate Students Subject to Senate Bill (SB) 1231**

Undergraduate students who completed a high school program, or the equivalent, and entered a Texas public institution of higher education for the first time on or after the fall semester of 2007 are subject to the requirements of SB 1231.

Beginning with the 2007-2008 academic year, undergraduate students subject to SB 1231 will be permitted only six (6) non-punitive drops during their undergraduate studies. Therefore, drops falling under SB 1231 annotated on official transcripts received from other colleges and/or universities will be transferred to Texas A&M University-San Antonio for the purpose of maintaining the number of drops accumulated by the student.

For additional information on drops subject to SB 1231, refer to the section of the catalog titled "Academic Regulations" under the sub-title of "Dropping a Course."

### **Resolution of Transfer Disputes for Lower Division Courses**

The following procedures shall be followed by Texas A&M University-San Antonio in the resolution of credit transfer disputes involving lower division courses:

1. If the admission office nor the appropriate college or program advisor at Texas A&M University-San Antonio does not accept course credit earned by a student at another institution of higher education, the university shall give written notice to the student and to the sending institution that transfer of the course credit is denied. Texas A&M University-San Antonio shall provide written notice of the reasons for denying credit for a particular course or set of courses at the request of the sending institution.
2. A student who receives notice as specified in No. 1 above may dispute the denial of credit by contacting a designated official at either the sending institution or Texas A&M University-San Antonio.
3. Texas A&M University-San Antonio, the sending institution, and the student shall attempt to resolve the transfer of the course credit in accordance with Coordinating Board rules and guidelines.
4. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, Texas A&M University-San Antonio shall notify the Commissioner of its denial and the reasons for the denial.
5. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

The Coordinating 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.

If Texas A&M University-San Antonio has cause to believe that a course being presented by a student for transfer from another institution is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that Texas A&M University-San Antonio and the sending institution are unable to come to a satisfactory resolution, Texas A&M University-San Antonio may notify the Commissioner of Higher Education, who may investigate the course. If its quality is found to be unacceptable, the Board may discontinue funding for the course.

### Transfer Credit Toward Undergraduate Programs by Examination

Texas A&M University-San Antonio participates in several nationally recognized, standardized testing programs. These exams are designed, monitored, scored and validated by authoritative educational testing agencies and enjoy wide acceptance throughout higher education. Students may transfer in an unlimited number of hours of credit earned through the examinations described below. However, students must meet A&M-San Antonio residency policies to earn a degree. All credit-by-exam score reports must be sent directly to A&M-San Antonio for evaluation of transfer credit.

#### College Level Examination Program (CLEP)

Sponsored by the College Board, the CLEP affords students the opportunity to earn college-level credit in a variety of college subjects, as well as through a series of general examinations that cover broad areas of collegiate education. Preparation for CLEP exams may be based on self-study or prior formal instruction.

Through CLEP exams it is possible to earn up to 90 college-level credits. A&M-San Antonio does not accept CLEP exams that duplicate coursework previously transferred for credit. Students may not receive CLEP exam credits and course credit. CLEP exams are offered at testing centers across the nation and by special arrangement at military installations around the world. A&M-San Antonio accepts test scores regardless of where the tests are administered. CLEP sponsors two types of exams: general and subject.

#### 1. CLEP General Examinations

The CLEP General Examinations provide a comprehensive measure of achievement in five basic areas of liberal arts and sciences. Each examination assesses the extent to which the student has mastered general knowledge in the area.

#### 2. CLEP Subject Examinations

The CLEP Subject Examinations measure achievement in specific undergraduate courses common to U.S. institutions of higher education. Subject exams stress understanding, the ability to perceive relationships, and the student's grasp of principles, concepts and factual materials in individual subjects. Subject Examinations consist of multiple-choice questions covering more than 30 college-level subjects. To receive credit at A&M-San Antonio for these exams, students must earn at least the minimum score recommended by the ACE Guide. The awarding of A&M-San Antonio credit follows College Board recommendations.

Exam Title	Credit-Granting Score	Semester Hours	A&M-San Antonio Equivalent
<b>Business</b>			
Financial Accounting	50	3	ACCT 2301
Principles of Management	50	3	MGMT 3311
Principles of Marketing	50	3	MKTG 3311
<b>Composition &amp; Literature</b>			
American Literature	50	3	ENGL 2326
College Composition	50	6	ENGL 1301 and 1302
College Composition Modular	50	3	ENGL 1301

<b>Exam Title</b>	<b>Credit-Granting Score</b>	<b>Semester Hours</b>	<b>A&amp;M-San Antonio Equivalent</b>
English Literature	50	3	ENGL 2321
<b>History &amp; Social Sciences</b>			
American Government	50	3	GOVT 2305
History of the United States I	50	3	HIST 1301
History of the United States II	50	3	HIST 1302
Human Growth and Development	50	3	PSYC 3327
Introductory Psychology	50	3	PSYC 2301
Introductory Sociology	50	3	SOCI 1301
Principles of Macroeconomics	50	3	ECON 2301
Principles of Microeconomics	50	3	ECON 2302
Western Civilization I	50	3	HIST 2311
Western Civilization II	50	3	HIST 2312
<b>Science &amp; Mathematics</b>			
Biology	50	6	BIOL 1308 and BIOL 1309
Calculus	50	4	MATH 2313/2113
Chemistry	50	6	CHEM 1311 and CHEM 1312
College Algebra	50	3	MATH 1314
Natural Sciences	50	6	BIOL 1308 and BIOL 1309
Precalculus	50	3	MATH 2312
<b>World Languages</b>			
French Language: Level 1	50	6	FREN 1311 and FREN 1312
French Language: Level 2	59	9	FREN 1311, FREN 1312, and FREN 2311
German Language: Level 1	50	6	GERM 1311 and GERM 1312
German Language: Level 2	60	9	GERM 1311, GERM 1312, and GERM 2311
Spanish Language: Level 1	50	6	SPAN 1311 and SPAN 1312
Spanish Language: Level 2	63	9	SPAN 1311, SPAN 1312, and SPAN 2311

***DANTES Subject Standardized Tests (DSSTs)***

A form of prior learning assessment, DSSTs offer students a cost effective, time saving way to use their knowledge acquired outside of the classroom (perhaps from reading, on-the-job training, or independent study) to accomplish their educational goals. A&M-San Antonio awards credit for the following DSSTs subject standardized tests based on the scores below:

Exam Title	Credit-Granting Score	Semester Hours	A&M-San Antonio Equivalent
Art of the Western World	400	3	ARTS 1301
Business Mathematics	400	3	MATH 1324
Criminal Justice	400	3	CRIM 1301
Foundations of Education	400	3	EDUC 1301
Introduction to Geography	400	3	GEOG 1303
Principles of Statistics	400	3	MATH 1342

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

The AP Exams were designed by the College Entrance Examination Board (College Board) to enable students to pursue college-level studies while still in secondary school. They are specifically intended to stimulate both students and teachers to higher achievement and to help eliminate the needless duplication of studies later in college. Exams are available in more than 30 different areas, such as biology, calculus, chemistry, classics, European history and psychology. AP exams are graded on a five-point scale in which one (1) is the lowest and five (5) is the highest. Students must achieve a score of three (3) or higher to receive credit at A&M-San Antonio.

Exam Title	Credit-Granting Score	Semester Hours	A&M-San Antonio Equivalent
AP Art History	3	3	ARTS 1301
AP English Language and Composition	3	3	ENGL 1301
AP English Language and Composition	4	6	ENGL 1301 and ENGL 1302
AP English Literature and Composition	3	3	ENGL 2321
AP Human Geography	3	3	GEOG 1302
AP Macroeconomics	3	3	ECON 2301
AP Microeconomics	3	3	ECON 2302
AP Psychology	3	3	PSYC 2301
AP United States Government and Politics	3	3	GOVT 2305
AP United States History	3	6	HIST 1301 and HIST 1302
AP World History	3	6	HIST 2321 and HIST 2322
AP Statistics	3	3	MATH 1342
AP Calculus AB	3	4	MATH 2313 and MATH 2113
AP Calculus BC	3	8	MATH 2313, MATH 2113, MATH 2314, and MATH 2114
AP Biology	3	3	BIOL 1308
AP Biology	4	6	BIOL 1308 and BIOL 1309
AP Chemistry	3	3	CHEM 1311

Exam Title	Credit-Granting Score	Semester Hours	A&M-San Antonio Equivalent
AP Chemistry	4	6	CHEM 1311 and CHEM 1312
AP Physics C: Electricity and Magnetism	3	3	PHYS 2326
AP Physics C: Mechanics	3	3	PHYS 2325
AP Physics 1: Algebra-Based	3	3	PHYS 1301
AP Physics 2: Algebra-Based	3	3	PHYS 1302
AP Chinese Language and Culture	3	6	CHIN 1311 and CHIN 1312
AP Chinese Language and Culture	4	12	CHIN 1311, CHIN 1312, CHIN 2311 and CHIN 2312
AP French Language and Culture	3	6	FREN 1311 and FREN 1312
AP French Language and Culture	4	12	FREN 1311, FREN 1312, FREN 2311 and FREN 2312
AP German Language and Culture	3	6	GERM 1311 and GERM 1312
AP German Language and Culture	4	12	GERM 1311, GERM 1312, GERM 2311 and GERM 2312
AP Italian Language and Culture	3	6	ITAL 1311 and ITAL 1312
AP Italian Language and Culture	4	12	ITAL 1311, ITAL 1312, ITAL 2311 and ITAL 2312
AP Japanese Language and Culture	3	6	JAPN 1311 and JAPN 1312
AP Japanese Language and Culture	4	12	JAPN 1311, JAPN 1312, JAPN 2311 and JAPN 2312
AP Latin	3	6	LATI 1311 and LATI 1312
AP Latin	4	12	LATI 1311, LATI 1312, LATI 2311 and LATI 2312
AP Spanish Language and Culture	3	6	SPAN 1311 and SPAN 1312
AP Spanish Language and Culture	4	12	SPAN 1311, SPAN 1312, SPAN 2311 and SPAN 2312
AP Spanish Literature and Culture	3	3	SPAN 2320

***International Baccalaureate (IB)***

In compliance with Senate Bill 111, International Baccalaureate Examinations are accepted by Texas A&M-San Antonio to those that have earned the IB Diploma and received an exam score of a 4 or higher on the Standard Level exams. Students must have completed the examinations before they graduated from high school. Up to 24 semester hours of course specific college credit in subject appropriate areas can be awarded. Some course credit may be awarded to those that did not earn the IB Diploma, but successfully completed the IB subject area exams for the Higher Level and received a score that meets the Texas A&M-San Antonio standard.

Transcripts must be sent directly to Texas A&M-San Antonio from the examining body.

## **TEXAS SUCCESS INITIATIVE (TSI)**

The Texas Success Initiative (TSI) requires students to be assessed in reading, writing and mathematical skills before enrolling in a Texas public college or university. Texas Education Code Section 51.3062 provides institutions of higher education a means of determining students' readiness to enroll in freshman-level course work. Prior to enrollment, each student must be assessed in three skill areas (reading, writing, and mathematics) by taking the TSI examination and achieving the following scores:

- Mathematics: 350
- Reading: 351
- Writing:
  - Placement score of at least 340 and an essay score of at least a 4; OR
  - Placement score of less than 340, ABE Diagnostic level of 4 or higher and an essay score of at least a 5.

The fee for the completion of the assessment instrument will be paid by the student. TSI Placement scores are set by the Texas Higher Education Coordinating Board and are subject to change.

### ***Basic Skills Policy***

Students that are not College Ready in Math are required to sign a TSI Agreement and complete developmental education math courses through a partnership. Students that have not met the College Readiness standards in math are required to enroll in developmental or co-requisite Math course(s) each term until the TSI Math section is satisfied or they will be dropped from their courses at the beginning of the term. Students that are not College Ready in all areas will have limited course availability for registration. Students who do not satisfy the TSI Math area will not be allowed to enroll in upper division courses.

### ***Exemptions***

The following exemptions may be applied to those that are eligible and who have not met TSI requirements. It is the responsibility of the student to provide the documents necessary for A&M-SA to determine the student's eligibility for the exemption.

ACT            Obtain a composite score of 23 with a minimum of 19 on the English test shall be exempt for both the reading and writing sections of the TSI Assessment, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. Valid for a period of five (5) years from the date of the test.

SAT            Prior to March 1, 2016: critical reading and mathematics score of 1070 with a minimum of 500 on the critical reading test shall be exempt for both reading and writing sections of the TSI Assessment, and 500 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. Valid for a period of five (5) years from the date of the test.

March 1, 2016 to present: An evidence based reading and writing score of 480 shall exempt both reading and writing sections of the TSI Assessment and a mathematics score of 530 shall exempt for the mathematics section of the TSI Assessment. Valid for a period of five (5) years from the date of the test.

STAAR        A minimum score of Level 2 on the English III for both the reading and writing, and a minimum score of Level 2 on the Algebra II. Valid for a period of five (5) years from the date of test.

**Military** Students who are serving on active duty as a member of the armed forces of the United States, Texas National Guard as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment. A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.

**Transfer** Students who have graduated with an associates or baccalaureate degree from a U.S. accredited institution of higher education. A student who transfers from a private or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level reading, writing, and mathematics coursework is exempt as determined by A&M-SA.

A student who has previously attended any institution and has been determined to have met readiness standards by that institution. Students, who meet non-Algebra intensive readiness standards in mathematics, may need to complete additional preparatory coursework/interventions for Algebra intensive courses.

A student who previously enrolled in a certificate program of one year or less (Level-One certificates, 42 or fewer semester credit hours or the equivalent) at a public junior college, a public technical institute, or a public state college.

Exemptions will only be used to satisfy the TSI requirement for registration into entry-level courses. Students exempt from TSI requirements may still need to take lower-level, prerequisite courses. TSI assessment results or proof of exemption must be submitted to the Testing Center. For more information on what documents are needed for the exemptions, please contact the Testing Center at (210)784-1366.

### **MENINGITIS INFORMATION**

Texas Senate Bill 1107 requires all students (under the age of 22) entering an institution of higher education (public and private) to either receive an initial vaccination against bacterial meningitis or a booster dose during the five-year period preceding and at least 10 days prior to the first day of the first semester in which the student initially enrolls at an institution or meets certain criteria for declining such a vaccination. In addition, students under the age of 22 who have taken a break in enrollment of at least one fall or spring semester at the same or another institution are also required to obtain a booster if the date of the original vaccination has expired. Transfer students are considered entering students. This information shall be maintained in accordance with Family Education Rights and Privacy Act Regulations and with Health Insurance Portability and Accountability Act.

The University has chosen to work with Magnus Health SMR (Student Medical Record) to provide web-based access for submitting evidence of the vaccination or booster. Evidence of a vaccination or booster must be uploaded by students and approved by Magnus Health SMR no later than 10 days prior to the start of the semester.

Extensions for vaccination and approval by Magnus Health SMR may be granted up to 10 days after the first day of class. The student may request an extension by submitting an extension request form to the Welcome Center.

Students who have been granted an extension and have not submitted documentation of the vaccination or have not been approved through Magnus Health SMR by the submission deadline will be dropped from courses as required by state law.

Exemptions may be requested for reasons of conscience or by the recommendation of a physician. This documentation must also be submitted to and approved by Magnus Health SMR.

This requirement does not include:

- Students who are 22 years of age or older
- Students who are enrolled only in online courses or other distance education courses. Students who will be enrolled only in online courses must submit an exemption form each semester to the Welcome Center. Students will be required to submit an Add/Drop form through his/her advisor and the registrar's office to register for classes.

As part of the implementation of Senate Bill 1107, Texas A&M University-San Antonio (A&M-SA) will place a registration hold on all new incoming and former students under the age of 22 effective on a designated date prior to the entry term. All registered students pending verification of vaccination documentation will be dropped from classes on the first "drop for non-payment" date for the semester as published on the academic calendar. Students with an approved extension that are out of compliance after the authorized 10-day extension will be dropped from their classes. Registration holds will be removed upon verification of vaccine or approval of exemption. The Welcome Center is located in the Madla Building, room 111 and can be reached at (210) 784-1300. Additional information about providing documentation of meningitis vaccination is available online: <http://www.tamusa.edu/welcomecenter/NewStudentChecklist/meningitisvaccine.html>.

## **STUDENT TRANSITIONS**

### **New Student Orientation**

The New Student Orientation Program is designed to provide students with information to assist in a successful transition to Texas A&M University-San Antonio. At orientation students will receive information on academic expectations, university policies, campus resources, and involvement opportunities from various departments around campus. Returning students whose orientation completion date is over a year old will be required to complete orientation. New Student Orientation must be completed prior to registering for classes.

- Freshman New Student Orientation:
  - Freshman orientation is for students who have not attended college since earning a high school degree or GED.
  - Freshman orientation is a two day in-person orientation. Students will select their orientation date via JagWire. Dates for Summer and Fall admits will open March 1<sup>st</sup> and dates for Spring admits will open September 1<sup>st</sup>.
  - A nonrefundable \$75 orientation fee is required to secure your orientation date. Payment can be made online or in-person at Student Business Services.
  - No refunds will be issued for students who do not enroll at A&M-San Antonio.

*Students who are over the age of 30 by the first day of classes, in the semester they are applying for, are exempt from freshman orientation requirements but must complete transfer orientation requirements. If you meet this stipulation and would like to follow the transfer orientation requirements, please call Student Transition and Family Engagement at 210-784-1452 or email [nso@tamusa.edu](mailto:nso@tamusa.edu).*

- Transfer, Freshmen Transfer, and Graduate New Student Orientation:
  - Transfer, Freshmen Transfer and graduate orientation is for students who have:
    - earned college credit hours, determined at the point of admission, and attended college since earning a high school degree or GED, or
    - attended college since earning a high school degree or GED and have 29 or less college credit hours, or
    - applied to earn a Master's degree.
  - Transfer and graduate orientation will be completed online.
  - Students will register for online orientation via JagWire.
  - A nonrefundable \$75 orientation fee is required prior to starting online. Payment can be made online or in-person at Student Business Services.
  - No refunds will be issued for students who do not enroll at A&M-San Antonio.

### **JagX**

JagX jump starts a student's transition to college and prepares our new Jaguars for the life-changing experiences that lie ahead. As a key part of the professional journey, the A&M-SA JagX contributes to retention efforts by introducing our new undergraduates to university expectations and culture through an emphasis on the professional, intellectual, and life skills that will enable participants to be successful as university students. This week long experience, held prior to first day of class, will allow our students to meet fellow jaguars, interact with faculty and staff, and feel a connection to our university. JagX is mandatory for all, incoming first-year students.

Failure to attend JagX will result in a class registration hold on the student's account.

## FINANCIAL INFORMATION

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### EDUCATIONAL EXPENSES

Senator Frank L. Madla Building, Suite 135 | (210)784-2020

#### Estimated Nine-Month Budget

The following nine-month budgets are offered as estimates of reasonable expected expenses.

#### A&M-San Antonio Undergraduate Student Budget for 2019-2020

##### Texas Resident and Non-Resident | Fall and Spring (award year of nine months)

	Full Time (15 hours)		
	At home	Residence hall	Off-campus
Tuition & Fees	\$8,060	\$8,060	\$8,060
Room & Board	\$2,624	\$10,420	\$8,056
Books	\$1,368	\$1,368	\$1,368
Transportation	\$2,624	\$2,624	\$2,624
Miscellaneous	\$2,240	\$3,008	\$3,008
<b>Resident Total</b>	<b>\$16,916</b>	<b>\$25,480</b>	<b>\$23,116</b>
Non-Resident Fee	\$13,100	\$13,100	\$13,100
<b>Non-Resident Total</b>	<b>\$30,016</b>	<b>\$38,580</b>	<b>\$36,216</b>

#### Financial Obligations

Students are expected to pay all financial obligations to the University when due. Failure to meet such obligations will result in a student's record being placed on a hold status and may result in the student not being able to take final examinations, receive official transcripts, or enroll for another semester. If an account is not paid when due, the institution has the right to forward past due accounts to a collection agency. The student will be responsible for any and all attorney's fees and other collection agency fees necessary for the collection of any amounts not paid when due. Payment of past due accounts by check (paper or electronic) may result in a ten day delay in clearing any associated holds to allow time for the payment to clear.

#### Financial Responsibility Agreement

All students must electronically accept the University's Financial Responsibility Agreement prior to enrolling. The Agreement will appear as a pop up as students navigate to registration via JagWire. The full text of the Agreement may be found on the Student Business Services web page.

Students receiving University-sponsored financial aid are expected to pay all financial obligations owed the University at the time they receive the financial aid.

NOTE: The census date of the semester is the day that all tuition and mandatory fees must be paid in full. However, the university may establish a payment deadline in advance of census date. If all tuition and mandatory fees are not paid in full, a class or classes will be dropped for non-payment by the census date. The census date of the long semesters (fall and spring) is the 12th class day. Census dates for other terms or parts of term are based on Texas Higher Education Coordinating Board (THECB) rules. Please refer to the Academic Calendar for a complete list of deadlines.

#### Mandatory Tuition and Fees

Students who do not pay mandatory tuition and fees in full by established deadlines may be dropped from one or more classes, according to the unpaid balance due. Students who make the required initial payment of the deferred payment plan will not be dropped.

### **Guaranteed Tuition Plan**

Effective Fall 2018, first time undergraduate resident students default into the One Year Option Tuition and Fee Plan at the point of admission acceptance. The One Year Option Tuition and Fee Plan is locked in for the current academic year, and may increase each year thereafter.

First time undergraduate resident students may opt into the Guaranteed Plan on or before the census date for their initial term. To complete the process of opting into the Guaranteed Plan, students must log into their account via JagWire, click on **Classes and Registration** and follow the steps to opt-in.

The Guaranteed Plan covers: Statutory Tuition, Designated Tuition, and All Mandatory Fees (International Education Fee, Rec Sports Fee, and University Services Fee). It does not cover optional fees such as Ebook course fees, field trip fees, parking permits, etc.

Effective fall 2016 through summer 2018, students who enrolled with the University defaulted into a Guaranteed Plan that is in effect for up to four years (12 consecutive terms) based on classification at the point of admission acceptance. Freshmen will have 4 years, sophomores will have 3 years, and juniors will have 2 years. Undergraduate resident students who continue enrollment after the expiration of their Guaranteed Plan will be assessed tuition and fees based on the One Year Option Tuition and Fee rates in effect at that time. Tuition and fee tables for both plans may be found at Tuition and Fee Tables.

**IMPORTANT:** Students who opt in to the Guaranteed Plan will be locked in to the Guaranteed Tuition and Fee Plan for up to four years (12 consecutive terms) based on classification at the point of opting-in. After opting into the Guaranteed Plan the student is not eligible to opt out of the Guaranteed Plan at a later point in time.

### **Deferred Payment of Tuition and Fees**

Students selecting the deferred payment plan may pay tuition and fees in three payments for summer or four payments for fall or spring terms. There is a non-refundable \$15 administrative fee for choosing the deferred payment plan. Students who select a deferred payment plan need to be absolutely sure of all the classes/expenses, as only one plan is allowed per term. They are subject to the following provisions:

- a. Students receiving University-sponsored financial aid equal to or greater than their tuition and fees **must** pay in one payment. All financial aid funds received after selection of the deferred payment plan will be applied to the student's account balance until paid in full.
- b. A student who fails to make full payment of tuition and fees, including any incidental fees, by the due date may be prohibited from registering for classes until full payment is made. A student who fails to pay in full prior to the end of the semester may be denied credit for the work done that semester.
- c. If a student makes payment to enroll in a Deferred Payment Plan and the payment is returned to the University, the University may delete the student's Deferred Payment Plan and the student may be subject to being dropped for non-payment. Refer to the Returned Item Policy for additional information about returned items that are presented as payment for tuition and fees.
- d. A \$15 non-refundable late fee will be assessed for any payment that is not paid in full by the established date of the enrolled Deferred Payment Plan.

### **Charge Card Privilege**

Students may pay tuition and fees with a MasterCard, Visa, Discover, or American Express Credit card. Payments by credit card on student accounts must be made over the web via *MoneyConnect* and are subject to a credit card convenience fee in the amount of 2.85% of the payment with a minimum of a \$3.00 fee. There is no convenience fee for payment by electronic check. Debit card payments made in the Student Business Services Office are not subject to a convenience fee.

### **Concurrent Enrollment at another Public Institution of Higher Education**

Students concurrently enrolled at A&M-SA and another Texas public institution of higher education must provide evidence of concurrent enrollment to the Registrar on the day they register at A&M-SA. This evidence must include

proof of enrollment for the same semester, the number of hours enrolled, and a receipt showing the total tuition and other registration fees paid at another public institution in order for students to be eligible for the provisions of Senate Bill 250, "Tuition Limit in Cases of Concurrent Enrollment".

### **Returned Item Policy**

When a bank or credit card processor returns an unpaid item (i.e., check\*, credit card, money order) that has been submitted to the University, the following procedure will apply:

1. The Student Business Services (SBS) Office will send a notification by email within 3 business days to the individual who submitted the returned item to the University. This notice will indicate the amount of the item, the \$25 returned item charge, and the reason the item was returned. SBS will also attempt to contact the student by phone to provide verbal notice. The individual is given 10 days from receipt of notification to clear the returned item using cash, cashier's check, money order, debit card or credit card. Only payment in full will be accepted. The University will not accept a personal check as repayment for a returned item.
2. A registration and transcript hold will be placed on the individual's record. After an individual has two or more items returned to the University, the University reserves the right to refuse acceptance of future checks from that individual. If an individual stops payment on a check presented to the University, the University reserves the right to refuse acceptance of future checks for payment of University charges.
3. In those instances where a student fails to redeem a returned item and charge within the 10 day period, the University will initiate one or more of the following courses of action:
  - a. If the item was given in payment of tuition and fees or is in excess of \$100, the student may be withdrawn from all classes at the University. The Student Business Services Office will notify the Registrar's Office of the requested withdrawal. The Registrar's Office will withdraw the student as of that date and notify the student, all instructors and any other offices that may need to take action (i.e. International, Student Services). The student will receive a refund only if the withdrawal occurs prior to or during the percentage refund dates for the semester. Any refund resulting from the withdrawal will be held to be applied toward the returned item. If the student is withdrawn after midpoint of the session, the grade entered on his/her transcript will be at the discretion of each instructor.
  - b. Returned items for less than \$100 may be referred to the Office of Student Engagement & Success for disciplinary action.
  - c. In those instances where the returned check and charge have not been redeemed after two notification attempts, the University may take the check to the district attorney (or county attorney) and file a complaint with that office. Any further action on the matter will follow the legal process as prescribed by the respective attorney's office.

**\*Check, in the Returned Item Policy, refers to all forms of checks (electronic and paper). The student is responsible for any checks presented on their behalf.**

### **Resident vs. Nonresident Student Status**

All students attending Texas A&M University-San Antonio who are nonresidents of Texas will be charged additional tuition in accordance with state law. The responsibility of registering under the proper residence status is placed upon the student. If there is any possible question about the right to legal residence in Texas under state law and University rules, the student must raise the question with the Office of the Registrar and have such question settled prior to registration. There can be no change of residence unless authorized by the Registrar. Students must pay the correct tuition and fees at the beginning of each semester or term for which they register. Any attempt on the part of a nonresident to evade the nonresident fee may lead to expulsion from the University. Legal resident information forms to assist students in determining their proper legal status are available in the Registrar's Office.

### **Military Residence**

Military persons stationed in Texas who wish to avail themselves or their dependents of military residence provisions of state law must submit during their first semester of enrollment in which they will be using the waiver program, a statement from an appropriately authorized officer in the service certifying that they (or a parent) will be assigned to duty in Texas on the census date of the term they plan to enroll, and that they are not in Texas only to attend training with Texas units. Such persons shall pay resident tuition so long as they reside continuously in Texas or remain continuously enrolled in the same degree or certificate program (enrollment in summer semester is not required to remain continuously enrolled).

### ***Veterans' Access, Choice, and Accountability Act of 2014***

In August 2014 Congress passed the Veterans Access, Choice, and Accountability Act of 2014. Section 702 of the "Choice Act" requests that Texas A&M University-San Antonio provide in-state residency for tuition purposes to veterans and their family members using the Post 9/11 GI Bill (Chapter 33) or the Active Duty Montgomery GI Bill (Chapter 30) for terms that begin after July 1, 2015 with the following qualifying circumstances:

- A Veteran who lives in the state in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.
- A spouse or child using transferred benefits who lives in the state in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls in the school within 3 years of the transferor's discharge from a period of active duty service of 90 days or more.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in the state in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls in the school within three years of the service-member's death in the line of duty following a period of active duty service of 90 days or more.

A student seeking in-state tuition under Section 702 must be using GI Bill entitlement for the term in which their resident status will be evaluated.

A residence determination cannot be made until all supporting documents have been received. Once a covered individual is determined to have met the qualifications for in-state residence, this person will retain his or her status as long as he or she remains continuously enrolled in the institution.

Visit the link for more information regarding the [Section 702 Veterans Choice Act](#).

In order to determine your eligibility under Section 702, please contact the Office of Military Affairs, located in the Patriots' Casa, Suite 202. They can be reached by phone: (210) 784-1397 or email: [military@tamusa.edu](mailto:military@tamusa.edu).

## TUITION AND FEES

**TEXAS A&M UNIVERSITY-SAN ANTONIO**  
**TEXAS RESIDENT 1 YEAR OPTION FEES 2019 - 2020**  
**UNDERGRADUATE**  
**Fall and Spring - 16 Week and 8 Week and 5 Week Parts of Term**

Hours	Tuition <sup>2</sup>	Designated Tuition*	International Ed Fee	Rec Sports Fee	University Services Fee	Total
1	50.00	\$ 180.11	3.00	\$ 100.00	\$ 299.66	\$ 632.77
2	100.00	\$ 226.21	3.00	\$ 100.00	\$ 412.06	\$ 841.27
3	150.00	\$ 304.17	3.00	\$ 100.00	\$ 524.46	\$ 1,081.63
4	200.00	\$ 403.36	3.00	\$ 100.00	\$ 636.86	\$ 1,343.22
5	250.00	\$ 502.55	3.00	\$ 100.00	\$ 749.26	\$ 1,604.81
6	300.00	\$ 601.74	3.00	\$ 100.00	\$ 861.66	\$ 1,866.40
7	350.00	\$ 700.93	3.00	\$ 100.00	\$ 974.06	\$ 2,127.99
8	400.00	\$ 800.13	3.00	\$ 100.00	\$ 1,086.46	\$ 2,389.59
9	450.00	\$ 899.32	3.00	\$ 100.00	\$ 1,198.86	\$ 2,651.18
10	500.00	\$ 998.51	3.00	\$ 100.00	\$ 1,311.26	\$ 2,912.77
11	550.00	\$ 1,097.70	3.00	\$ 100.00	\$ 1,423.66	\$ 3,174.36
12	600.00	\$ 1,196.89	3.00	\$ 100.00	\$ 1,536.06	\$ 3,435.95
13	650.00	\$ 1,296.08	3.00	\$ 100.00	\$ 1,648.46	\$ 3,697.54
14	700.00	\$ 1,395.27	3.00	\$ 100.00	\$ 1,760.86	\$ 3,959.13
15	750.00	\$ 1,494.46	3.00	\$ 100.00	\$ 1,873.26	\$ 4,220.72
16	800.00	\$ 1,494.46	3.00	\$ 100.00	\$ 1,985.66	\$ 4,383.12
17	850.00	\$ 1,494.46	3.00	\$ 100.00	\$ 2,098.06	\$ 4,545.52
18	900.00	\$ 1,494.46	3.00	\$ 100.00	\$ 2,210.46	\$ 4,707.92
19	950.00	\$ 1,494.46	3.00	\$ 100.00	\$ 2,322.86	\$ 4,870.32
20	1,000.00	\$ 1,494.46	3.00	\$ 100.00	\$ 2,435.26	\$ 5,032.72

15 semester credit hours or more pay \$1494.46/SEM based on flat rate at 15 SCH's

Add \$50.00 tuition and \$112.40 University Services fee for each semester credit hour over 20. Other fees remain the same.

**MINIMUM TUITION: \$50.00**

<sup>2</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**TEXAS A&M UNIVERSITY-SAN ANTONIO**  
**TEXAS RESIDENT 1 YEAR OPTION FEES 2019 - 2020**  
**UNDERGRADUATE**  
**Summer 2020 - 10 Week, 5 or 8 Week Parts of Term, and Maymester**

Hours	Tuition <sup>2</sup>	Designated Tuition*	International Ed Fee	Rec Sports Fee	University Services Fee	Total
1	50.00	\$ 178.91	3.00	\$ 50.00	\$ 299.66	\$ 581.57
2	100.00	\$ 225.01	3.00	\$ 50.00	\$ 412.06	\$ 790.07
3	150.00	\$ 302.97	3.00	\$ 50.00	\$ 524.46	\$ 1,030.43
4	200.00	\$ 402.16	3.00	\$ 50.00	\$ 636.86	\$ 1,292.02
5	250.00	\$ 501.35	3.00	\$ 50.00	\$ 749.26	\$ 1,553.61
6	300.00	\$ 600.54	3.00	\$ 50.00	\$ 861.66	\$ 1,815.20
7	350.00	\$ 699.73	3.00	\$ 50.00	\$ 974.06	\$ 2,076.79
8	400.00	\$ 798.93	3.00	\$ 50.00	\$ 1,086.46	\$ 2,338.39
9	450.00	\$ 898.12	3.00	\$ 50.00	\$ 1,198.86	\$ 2,599.98
10	500.00	\$ 997.31	3.00	\$ 50.00	\$ 1,311.26	\$ 2,861.57
11	550.00	\$ 1,096.50	3.00	\$ 50.00	\$ 1,423.66	\$ 3,123.16
12	600.00	\$ 1,195.69	3.00	\$ 50.00	\$ 1,536.06	\$ 3,384.75
13	650.00	\$ 1,294.88	3.00	\$ 50.00	\$ 1,648.46	\$ 3,646.34
14	700.00	\$ 1,394.07	3.00	\$ 50.00	\$ 1,760.86	\$ 3,907.93
15	750.00	\$ 1,493.26	3.00	\$ 50.00	\$ 1,873.26	\$ 4,169.52
16	800.00	\$ 1,493.26	3.00	\$ 50.00	\$ 1,985.66	\$ 4,331.92
17	850.00	\$ 1,493.26	3.00	\$ 50.00	\$ 2,098.06	\$ 4,494.32
18	900.00	\$ 1,493.26	3.00	\$ 50.00	\$ 2,210.46	\$ 4,656.72
19	950.00	\$ 1,493.26	3.00	\$ 50.00	\$ 2,322.86	\$ 4,819.12
20	1,000.00	\$ 1,493.26	3.00	\$ 50.00	\$ 2,435.26	\$ 4,981.52

15 semester credit hours or more pay \$1494.46/SEM based on flat rate at 15 SCH's

Add \$50.00 tuition and \$112.40 University Services fee for each semester credit hour over 20. Other fees remain the same.

MINIMUM TUITION: \$50.00

<sup>2</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**TEXAS A&M UNIVERSITY-SAN ANTONIO**  
**TEXAS RESIDENT 2, 3, or 4 YEAR GUARANTEED FEES 2019 – 2020**  
**NEW UNDERGRADUATE FOR FALL 2019, SPRING 2020 OR SUMMER 2020**  
**Fall and Spring - 16 Week and 8 Week and 5 Week Parts of Term**

Hours	Tuition <sup>2</sup>	Designated Tuition*	International Ed Fee	Rec Sports Fee	University Services Fee	Total
1	50.00	\$ 211.75	3.00	\$ 100.00	\$ 299.66	\$ 664.41
2	100.00	\$ 268.27	3.00	\$ 100.00	\$ 412.06	\$ 883.33
3	150.00	\$ 358.25	3.00	\$ 100.00	\$ 524.46	\$ 1,135.71
4	200.00	\$ 470.52	3.00	\$ 100.00	\$ 636.86	\$ 1,410.38
5	250.00	\$ 582.78	3.00	\$ 100.00	\$ 749.26	\$ 1,685.04
6	300.00	\$ 695.05	3.00	\$ 100.00	\$ 861.66	\$ 1,959.71
7	350.00	\$ 807.32	3.00	\$ 100.00	\$ 974.06	\$ 2,234.38
8	400.00	\$ 919.59	3.00	\$ 100.00	\$ 1,086.46	\$ 2,509.05
9	450.00	\$ 1,031.85	3.00	\$ 100.00	\$ 1,198.86	\$ 2,783.71
10	500.00	\$ 1,144.12	3.00	\$ 100.00	\$ 1,311.26	\$ 3,058.38
11	550.00	\$ 1,256.39	3.00	\$ 100.00	\$ 1,423.66	\$ 3,333.05
12	600.00	\$ 1,368.66	3.00	\$ 100.00	\$ 1,536.06	\$ 3,607.72
13	650.00	\$ 1,480.92	3.00	\$ 100.00	\$ 1,648.46	\$ 3,882.38
14	700.00	\$ 1,593.19	3.00	\$ 100.00	\$ 1,760.86	\$ 4,157.05
15	750.00	\$ 1,705.46	3.00	\$ 100.00	\$ 1,873.26	\$ 4,431.72
16	800.00	\$ 1,705.46	3.00	\$ 100.00	\$ 1,985.66	\$ 4,594.12
17	850.00	\$ 1,705.46	3.00	\$ 100.00	\$ 2,098.06	\$ 4,756.52
18	900.00	\$ 1,705.46	3.00	\$ 100.00	\$ 2,210.46	\$ 4,918.92
19	950.00	\$ 1,705.46	3.00	\$ 100.00	\$ 2,322.86	\$ 5,081.32
20	1,000.00	\$ 1,705.46	3.00	\$ 100.00	\$ 2,435.26	\$ 5,243.72

*15 semester credit hours or more pay \$1705.46/SEM based on flat rate at 15 SCH's  
Add \$50.00 tuition and \$112.40 University Services fee for each semester credit hour over 20. Other fees remain the same.*

**MINIMUM TUITION: \$50.00**

*<sup>2</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.*

*The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.*

*The University reserves the right to change fees upon board approval.*

**TEXAS A&M UNIVERSITY-SAN ANTONIO**  
**TEXAS RESIDENT 2, 3, or 4 YEAR GUARANTEED FEES 2019 – 2020**  
**NEW UNDERGRADUATE FOR FALL 2019, SPRING 2020 OR SUMMER 2020**  
**Summer 2020 - 10 Week, 5 or 8 Week Parts of Term, and Maymester**

Hours	Tuition <sup>2</sup>	Designated Tuition*	International Ed Fee	Rec Sports Fee	University Services Fee	Total
1	50.00	\$ 210.55	3.00	\$ 50.00	\$ 299.66	\$ 613.21
2	100.00	\$ 267.07	3.00	\$ 50.00	\$ 412.06	\$ 832.13
3	150.00	\$ 357.05	3.00	\$ 50.00	\$ 524.46	\$ 1,084.51
4	200.00	\$ 469.32	3.00	\$ 50.00	\$ 636.86	\$ 1,359.18
5	250.00	\$ 581.58	3.00	\$ 50.00	\$ 749.26	\$ 1,633.84
6	300.00	\$ 693.85	3.00	\$ 50.00	\$ 861.66	\$ 1,908.51
7	350.00	\$ 806.12	3.00	\$ 50.00	\$ 974.06	\$ 2,183.18
8	400.00	\$ 918.39	3.00	\$ 50.00	\$ 1,086.46	\$ 2,457.85
9	450.00	\$ 1,030.65	3.00	\$ 50.00	\$ 1,198.86	\$ 2,732.51
10	500.00	\$ 1,142.92	3.00	\$ 50.00	\$ 1,311.26	\$ 3,007.18
11	550.00	\$ 1,255.19	3.00	\$ 50.00	\$ 1,423.66	\$ 3,281.85
12	600.00	\$ 1,367.46	3.00	\$ 50.00	\$ 1,536.06	\$ 3,556.52
13	650.00	\$ 1,479.72	3.00	\$ 50.00	\$ 1,648.46	\$ 3,831.18
14	700.00	\$ 1,591.99	3.00	\$ 50.00	\$ 1,760.86	\$ 4,105.85
15	750.00	\$ 1,704.26	3.00	\$ 50.00	\$ 1,873.26	\$ 4,380.52
16	800.00	\$ 1,704.26	3.00	\$ 50.00	\$ 1,985.66	\$ 4,542.92
17	850.00	\$ 1,704.26	3.00	\$ 50.00	\$ 2,098.06	\$ 4,705.32
18	900.00	\$ 1,704.26	3.00	\$ 50.00	\$ 2,210.46	\$ 4,867.72
19	950.00	\$ 1,704.26	3.00	\$ 50.00	\$ 2,322.86	\$ 5,030.12
20	1,000.00	\$ 1,704.26	3.00	\$ 50.00	\$ 2,435.26	\$ 5,192.52

*15 semester credit hours or more pay \$1705.46/SEM based on flat rate at 15 SCH's*

*Add \$50.00 tuition and \$112.40 University Services fee for each semester credit hour over 20. Other fees remain the same.*

**MINIMUM TUITION: \$50.00**

*<sup>2</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.*

*The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.*

*The University reserves the right to change fees upon board approval.*

**TEXAS A&M UNIVERSITY-SAN ANTONIO**  
**2019 – 2020 TEXAS RESIDENT 2, 3, or 4 YEAR GUARANTEED FEES**  
**NEW UNDERGRADUATE FOR FALL 2018, SPRING 2019 OR SUMMER 2019**  
**Fall and Spring-16 Week and 8 Week Parts of Term**

Hours	Tuition <sup>2,3,4</sup>	Designated Tuition <sup>1</sup>	International Ed Fee	Rec Sports Fee	University Services Fee <sup>2</sup>	Total
1	50.00	196.18	3.00	100.00	299.66	648.84
2	100.00	247.57	3.00	100.00	412.06	862.63
3	150.00	331.63	3.00	100.00	524.46	1,109.09
4	200.00	437.46	3.00	100.00	636.86	1,377.32
5	250.00	543.29	3.00	100.00	749.26	1,645.55
6	300.00	649.12	3.00	100.00	861.66	1,913.78
7	350.00	754.95	3.00	100.00	974.06	2,182.01
8	400.00	860.78	3.00	100.00	1,086.46	2,450.24
9	450.00	966.61	3.00	100.00	1,198.86	2,718.47
10	500.00	1,072.44	3.00	100.00	1,311.26	2,986.70
11	550.00	1,178.27	3.00	100.00	1,423.66	3,254.93
12	600.00	1,284.10	3.00	100.00	1,536.06	3,523.16
13	650.00	1,389.93	3.00	100.00	1,648.46	3,791.39
14	700.00	1,495.76	3.00	100.00	1,760.86	4,059.62
15	750.00	1,601.59	3.00	100.00	1,873.26	4,327.85
16	800.00	1,601.59	3.00	100.00	1,985.66	4,490.25
17	850.00	1,601.59	3.00	100.00	2,098.06	4,652.65
18	900.00	1,601.59	3.00	100.00	2,210.46	4,815.05
19	950.00	1,601.59	3.00	100.00	2,322.86	4,977.45
20	1,000.00	1,601.59	3.00	100.00	2,435.26	5,139.85

<sup>1</sup>15 semester credit hours or more pay \$\$1601.59 per semester based on flat rate at 15 semester credit hours.

<sup>2</sup>Add \$50.00 tuition and \$112.40 University Services fee for each semester credit hour over 20. Other fees remain the same.

<sup>3</sup>MINIMUM TUITION: \$50.00

<sup>4</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**TEXAS A&M UNIVERSITY-SAN ANTONIO**  
**TEXAS RESIDENT 2, 3, or 4 YEAR GUARANTEED FEES 2019 - 2020**  
**NEW UNDERGRADUATE FOR FALL 2018, SPRING 2019 OR SUMMER 2019**  
**Summer 2019 - 10 Week, 5 or 8 Week Parts of Term, and Maymester**

Hours	Tuition <sup>2,3,4</sup>	Designated Tuition <sup>1</sup>	International Ed Fee	Rec Sports Fee	University Services Fee <sup>2</sup>	Total
1	50.00	196.18	3.00	50.00	299.66	598.84
2	100.00	247.57	3.00	50.00	412.06	812.63
3	150.00	331.63	3.00	50.00	524.46	1,059.09
4	200.00	437.46	3.00	50.00	636.86	1,327.32
5	250.00	543.29	3.00	50.00	749.26	1,595.55
6	300.00	649.12	3.00	50.00	861.66	1,863.78
7	350.00	754.95	3.00	50.00	974.06	2,132.01
8	400.00	860.78	3.00	50.00	1,086.46	2,400.24
9	450.00	966.61	3.00	50.00	1,198.86	2,668.47
10	500.00	1,072.44	3.00	50.00	1,311.26	2,936.70
11	550.00	1,178.27	3.00	50.00	1,423.66	3,204.93
12	600.00	1,284.10	3.00	50.00	1,536.06	3,473.16
13	650.00	1,389.93	3.00	50.00	1,648.46	3,741.39
14	700.00	1,495.76	3.00	50.00	1,760.86	4,009.62
15	750.00	1,601.59	3.00	50.00	1,873.26	4,277.85
16	800.00	1,601.59	3.00	50.00	1,985.66	4,440.25
17	850.00	1,601.59	3.00	50.00	2,098.06	4,602.65
18	900.00	1,601.59	3.00	50.00	2,210.46	4,765.05
19	950.00	1,601.59	3.00	50.00	2,322.86	4,927.45
20	1,000.00	1,601.59	3.00	50.00	2,435.26	5,089.85

<sup>1</sup>15 semester credit hours or more pay \$\$1601.59 per semester based on flat rate at 15 semester credit hours.

<sup>2</sup>Add \$50.00 tuition and \$112.40 University Services fee for each semester credit hour over 20. Other fees remain the same.

<sup>3</sup>MINIMUM TUITION: \$50.00

<sup>4</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**Texas A&M University-San Antonio**  
**2019-2020 Texas Resident 2, 3, or 4 Year Guaranteed Fees**  
**Fall and Spring – 16 Week and 8 Week Parts of Term**  
**New Undergraduate for Fall 2017, Spring 2018, or Summer 2018**

Hours	Tuition <sup>2,3,4</sup>	Designated Tuition <sup>1</sup>	International Ed Fee	Rec Sports Fee	University Services Fee <sup>2</sup>	Total
1	120.00	93.07	3.00	100.00	280.00	596.07
2	120.00	186.14	3.00	100.00	392.78	801.91
3	150.00	279.21	3.00	100.00	505.56	1,037.77
4	200.00	372.28	3.00	100.00	618.34	1,293.62
5	250.00	465.35	3.00	100.00	731.12	1,549.47
6	300.00	558.42	3.00	100.00	843.90	1,805.32
7	350.00	651.49	3.00	100.00	956.68	2,061.17
8	400.00	744.56	3.00	100.00	1,069.46	2,317.02
9	450.00	837.63	3.00	100.00	1,182.24	2,572.87
10	500.00	930.70	3.00	100.00	1,295.02	2,828.72
11	550.00	1,023.77	3.00	100.00	1,407.80	3,084.57
12	600.00	1,116.84	3.00	100.00	1,520.58	3,340.42
13	650.00	1,209.91	3.00	100.00	1,633.36	3,596.27
14	700.00	1,302.98	3.00	100.00	1,746.14	3,852.12
15	750.00	1,396.05	3.00	100.00	1,858.92	4,107.97
16	800.00	1,396.05	3.00	100.00	1,971.70	4,270.75
17	850.00	1,396.05	3.00	100.00	2,084.48	4,433.53
18	900.00	1,396.05	3.00	100.00	2,197.26	4,596.31
19	950.00	1,396.05	3.00	100.00	2,310.04	4,759.09
20	1,000.00	1,396.05	3.00	100.00	2,422.82	4,921.87

<sup>1</sup>15 semester credit hours or more pay \$1396.05 per semester based on flat rate at 15 semester credit hours.

<sup>2</sup>Add \$50.00 tuition and \$112.78 University Services fee for each semester credit hour over 20. Other fees remain the same.

<sup>3</sup>MINIMUM TUITION: \$120.00

<sup>4</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**Texas A&M University-San Antonio**  
**2019-2020 Texas Resident 2, 3, or 4 Year Guaranteed Fees**  
**Summer 2019 – 10 Week and 5 or 8 Week Parts of Term**  
**New Undergraduate for Fall 2017, Spring 2018, or Summer 2018**

Hours	Tuition <sup>2,3,4</sup>	Designated Tuition <sup>1</sup>	International Ed Fee	Rec Sports Fee	University Services Fee <sup>2</sup>	Total
1	120.00	93.07	3.00	50.00	280.00	546.07
2	120.00	186.14	3.00	50.00	392.78	751.91
3	150.00	279.21	3.00	50.00	505.56	987.77
4	200.00	372.28	3.00	50.00	618.34	1,243.62
5	250.00	465.35	3.00	50.00	731.12	1,499.47
6	300.00	558.42	3.00	50.00	843.90	1,755.32
7	350.00	651.49	3.00	50.00	956.68	2,011.17
8	400.00	744.56	3.00	50.00	1,069.46	2,267.02
9	450.00	837.63	3.00	50.00	1,182.24	2,522.87
10	500.00	930.70	3.00	50.00	1,295.02	2,778.72
11	550.00	1,023.77	3.00	50.00	1,407.80	3,034.57
12	600.00	1,116.84	3.00	50.00	1,520.58	3,290.42
13	650.00	1,209.91	3.00	50.00	1,633.36	3,546.27
14	700.00	1,302.98	3.00	50.00	1,746.14	3,802.12
15	750.00	1,396.05	3.00	50.00	1,858.92	4,057.97
16	800.00	1,396.05	3.00	50.00	1,971.70	4,220.75
17	850.00	1,396.05	3.00	50.00	2,084.48	4,383.53
18	900.00	1,396.05	3.00	50.00	2,197.26	4,546.31
19	950.00	1,396.05	3.00	50.00	2,310.04	4,709.09
20	1000.00	1,396.05	3.00	50.00	2,422.82	4,871.87

<sup>1</sup>Students enrolled in 15 semester credit hours (SCH) or more pay \$1396.05 per semester based on flat rate at 15 SCH's

<sup>2</sup>Add \$50.00 tuition and \$112.78 University Services fee for each semester credit hour over 20. Other fees remain the same.

<sup>3</sup>MINIMUM TUITION: \$120.00

<sup>4</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**Texas A&M University-San Antonio**  
**2019-2020 Texas Resident Guaranteed Tuition and Fees**  
**Fall and Spring – 16 Week and 8 Week Parts of Term**  
**New Undergraduate for Fall 2016, Spring 2017, or Summer 2017**

Hours	Tuition <sup>2,3,4</sup>	Designated Tuition <sup>1</sup>	International Ed Fee	Rec Sports Fee	University Services Fee <sup>2</sup>	Total
1	120.00	93.07	3.00	100.00	270.12	586.19
2	120.00	186.14	3.00	100.00	378.38	787.52
3	150.00	279.21	3.00	100.00	486.64	1,018.85
4	200.00	372.28	3.00	100.00	594.90	1,270.18
5	250.00	465.35	3.00	100.00	703.16	1,521.51
6	300.00	558.42	3.00	100.00	811.42	1,772.84
7	350.00	651.49	3.00	100.00	919.68	2,024.17
8	400.00	744.56	3.00	100.00	1,027.94	2,275.50
9	450.00	837.63	3.00	100.00	1,136.20	2,526.83
10	500.00	930.70	3.00	100.00	1,244.46	2,778.16
11	550.00	1,023.77	3.00	100.00	1,352.72	3,029.49
12	600.00	1,116.84	3.00	100.00	1,460.98	3,280.82
13	650.00	1,209.91	3.00	100.00	1,569.24	3,532.15
14	700.00	1,302.98	3.00	100.00	1,677.50	3,783.48
15	750.00	1,396.05	3.00	100.00	1,785.76	4,034.81
16	800.00	1,396.05	3.00	100.00	1,894.02	4,193.07
17	850.00	1,396.05	3.00	100.00	2,002.28	4,351.33
18	900.00	1,396.05	3.00	100.00	2,110.54	4,509.59
19	950.00	1,396.05	3.00	100.00	2,218.80	4,667.85
20	1,000.00	1,396.05	3.00	100.00	2,327.06	4,826.11

<sup>1</sup>15 semester credit hours or more pay \$1396.05 per semester based on flat rate at 15 semester credit hours.

<sup>2</sup>Add \$50.00 tuition and \$108.26 University Services fee for each semester credit hour over 20. Other fees remain the same.

<sup>3</sup>MINIMUM TUITION: \$120.00

<sup>4</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**Texas A&M University-San Antonio**  
**2019-2020 Texas Resident Guaranteed Tuition and Fees**  
**Summer 2019 – 10 Week and 5 or 8 Week Parts of Term**  
**New Undergraduate for Fall 2016, Spring 2017, or Summer 2017**

Hours	Tuition <sup>2,3,4</sup>	Designated Tuition <sup>1</sup>	International Ed Fee	Rec Sports Fee	University Services Fee <sup>2</sup>	Total
1	120.00	93.07	3.00	50.00	270.06	536.13
2	120.00	186.14	3.00	50.00	377.75	736.89
3	150.00	279.21	3.00	50.00	485.44	967.65
4	200.00	372.28	3.00	50.00	593.13	1,218.41
5	250.00	465.35	3.00	50.00	700.82	1,469.17
6	300.00	558.42	3.00	50.00	808.51	1,719.93
7	350.00	651.49	3.00	50.00	916.20	1,970.69
8	400.00	744.56	3.00	50.00	1,023.89	2,221.45
9	450.00	837.63	3.00	50.00	1,131.58	2,472.21
10	500.00	930.70	3.00	50.00	1,239.27	2,722.97
11	550.00	1,023.77	3.00	50.00	1,346.96	2,973.73
12	600.00	1,116.84	3.00	50.00	1,454.65	3,224.49
13	650.00	1,209.91	3.00	50.00	1,562.34	3,475.25
14	700.00	1,302.98	3.00	50.00	1,670.03	3,726.01
15	750.00	1,396.05	3.00	50.00	1,777.72	3,976.77
16	800.00	1,396.05	3.00	50.00	1,885.41	4,134.46
17	850.00	1,396.05	3.00	50.00	1,993.10	4,292.15
18	900.00	1,396.05	3.00	50.00	2,100.79	4,449.84
19	950.00	1,396.05	3.00	50.00	2,208.48	4,607.53
20	1000.00	1,396.05	3.00	50.00	2,316.17	4,765.22

<sup>1</sup>Students enrolled in 14 semester credit hours (SCH) or more pay \$1302.98 per semester based on flat rate at 14 SCH's

<sup>2</sup>Add \$50.00 tuition and \$107.69 University Services fee for each semester credit hour over 20. Other fees remain the same.

<sup>3</sup>MINIMUM TUITION: \$120.00

<sup>4</sup>Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold.

The University's reinstatement fee is \$363. The 3-Peat fee is \$100 per semester credit hour.

The University reserves the right to change fees upon board approval.

**Texas A&M University-San Antonio**  
**NON-TEXAS RESIDENT FEES 2019-2020**  
**Summer 2020 - 10 Week and 5 or 8 Week Parts of Term**  
**Undergraduate**

Hours	Tuition	Designated Tuition*	International Education Fee	Rec Sports Fee	University Services Fee	Total
1	472.00	\$150.48	\$3.00	\$100.00	\$266.02	\$991.50
2	944.00	\$284.55	\$3.00	\$100.00	\$370.45	\$1,702.00
3	1416.00	\$418.62	\$3.00	\$100.00	\$474.88	\$2,412.50
4	1888.00	\$552.69	\$3.00	\$100.00	\$579.31	\$3,123.00
5	2360.00	\$686.76	\$3.00	\$100.00	\$683.74	\$3,833.50
6	2832.00	\$820.83	\$3.00	\$100.00	\$788.17	\$4,544.00
7	3304.00	\$954.89	\$3.00	\$100.00	\$892.60	\$5,254.49
8	3776.00	\$1,088.96	\$3.00	\$100.00	\$997.03	\$5,964.99
9	4248.00	\$1,223.03	\$3.00	\$100.00	\$1,101.46	\$6,675.49
10	4720.00	\$1,357.10	\$3.00	\$100.00	\$1,205.89	\$7,385.99
11	5192.00	\$1,491.17	\$3.00	\$100.00	\$1,310.32	\$8,096.49
12	5664.00	\$1,625.23	\$3.00	\$100.00	\$1,414.75	\$8,806.98
13	6136.00	\$1,759.30	\$3.00	\$100.00	\$1,519.18	\$9,517.48
14	6608.00	\$1,893.37	\$3.00	\$100.00	\$1,623.61	\$10,227.98
15	7080.00	\$2,027.44	\$3.00	\$100.00	\$1,728.04	\$10,938.48
16	7552.00	\$2,027.44	\$3.00	\$100.00	\$1,832.47	\$11,514.91
17	8024.00	\$2,027.44	\$3.00	\$100.00	\$1,936.90	\$12,091.34
18	8496.00	\$2,027.44	\$3.00	\$100.00	\$2,041.33	\$12,667.77
19	8968.00	\$2,027.44	\$3.00	\$100.00	\$2,145.76	\$13,244.20
20	9440.00	\$2,027.44	\$3.00	\$100.00	\$2,250.19	\$13,820.63

*Add 472.00 tuition and 104.43 University Services fee for each hour over 20. Other fees remain same.*

*MINIMUM TUITION: \$472.00*

*\* 15 SCH or more pay \$2027.44/SEM based on flat rate at 15 SCH's*

*Reinstatement fee: \$363. 3-Peat Fee: \$100 per semester credit hour*

*The University reserves the right to change fees upon board approval.*

**Texas A&M University-San Antonio**  
**NON-TEXAS RESIDENT FEES 2019-2020**  
**Summer 2020 - 10 Week and 5 or 8 Week Parts of Term**  
**Undergraduate**

Hours	Tuition	Designated Tuition*	International Education Fee	Rec Sports Fee	University Services Fee	Total
1	\$ 472.00	\$ 146.43	\$ 3.00	\$ 50.00	\$ 266.02	\$ 937.45
2	\$ 944.00	\$ 280.50	\$ 3.00	\$ 50.00	\$ 370.45	\$ 1,647.95
3	\$ 1,416.00	\$ 414.56	\$ 3.00	\$ 50.00	\$ 474.88	\$ 2,358.44
4	\$ 1,888.00	\$ 548.63	\$ 3.00	\$ 50.00	\$ 579.31	\$ 3,068.94
5	\$ 2,360.00	\$ 682.70	\$ 3.00	\$ 50.00	\$ 683.74	\$ 3,779.44
6	\$ 2,832.00	\$ 816.77	\$ 3.00	\$ 50.00	\$ 788.17	\$ 4,489.94
7	\$ 3,304.00	\$ 950.84	\$ 3.00	\$ 50.00	\$ 892.60	\$ 5,200.44
8	\$ 3,776.00	\$1,084.91	\$ 3.00	\$ 50.00	\$ 997.03	\$ 5,910.94
9	\$ 4,248.00	\$1,218.97	\$ 3.00	\$ 50.00	\$ 1,101.46	\$ 6,621.43
10	\$ 4,720.00	\$1,353.04	\$ 3.00	\$ 50.00	\$ 1,205.89	\$ 7,331.93
11	\$ 5,192.00	\$1,487.11	\$ 3.00	\$ 50.00	\$ 1,310.32	\$ 8,042.43
12	\$ 5,664.00	\$1,621.18	\$ 3.00	\$ 50.00	\$ 1,414.75	\$ 8,752.93
13	\$ 6,136.00	\$1,755.25	\$ 3.00	\$ 50.00	\$ 1,519.18	\$ 9,463.43
14	\$ 6,608.00	\$1,872.83	\$ 3.00	\$ 50.00	\$ 1,623.61	\$ 10,157.44
15	\$ 7,080.00	\$2,023.38	\$ 3.00	\$ 50.00	\$ 1,728.04	\$ 10,884.42
16	\$ 7,552.00	\$2,023.38	\$ 3.00	\$ 50.00	\$ 1,832.47	\$ 11,460.85
17	\$ 8,024.00	\$2,023.38	\$ 3.00	\$ 50.00	\$ 1,936.90	\$ 12,037.28
18	\$ 8,496.00	\$2,023.38	\$ 3.00	\$ 50.00	\$ 2,041.33	\$ 12,613.71
19	\$ 8,968.00	\$2,023.38	\$ 3.00	\$ 50.00	\$ 2,145.76	\$ 13,190.14
20	\$ 9,440.00	\$2,023.38	\$ 3.00	\$ 50.00	\$ 2,250.19	\$ 13,766.57

*Add 472.00 tuition and 104.43 University Services fee for each hour over 20. Other fees remain same.*

*MINIMUM TUITION: \$472.00*

*\* 15 SCH or more pay \$2023.38/SEM based on flat rate at 15 SCH's*

*Reinstatement fee: \$363. 3-Peat Fee: \$100 per semester credit hour*

*The University reserves the right to change fees upon board approval.*

## **Mandatory Fees**

*Note: All fees are payable at registration.*

### ***International Education Fee***

This fee is charged at a flat rate of \$3 per semester. Funds are used to support cultural diversity within the student body and to enhance student knowledge of other countries through international study and scholarships.

### ***Rec Sports Fee***

This fee is charged at a flat rate of \$100 for fall or spring and \$50 for summer. Funds are used to cover expenses for the Jaguar Fitness Center, development of intramural, extramural, and club sports, development of group and individual fitness programs, purchase of recreational and fitness equipment, professional and student staffing, and development of indoor and outdoor recreational space.

### ***University Services Fee***

This fee will be used to cover expenses for the following items: academic advising, library services, transcripts, student IDs, distance learning, campus safety and security, transportation, information technology, student services, course fees, and other university services as required.

### ***E-Book Course Fee***

A&M-SA has an institutional e-book program in which selected courses are designated “e-book courses” by the faculty. For each designated e-book course, the university charges a mandatory course fee. All students who enroll in a course that requires a university e-book will be charged a course fee which will appear in their overall tuition and fees. Students enrolled in designated e-book courses may access required course materials within the university’s online Learning Management System (i.e., Blackboard).

## **Miscellaneous Fees**

### ***Automobile Registration Fee***

All persons who operate a vehicle on University property, regularly or occasionally, are required to register those vehicles with the University Police Department and to obtain a parking permit for a designated area or areas. Detailed information on parking and traffic regulations; penalties for failing to register a vehicle and other traffic and parking violations; methods of obtaining refunds; procedures to follow when changing automobiles; location where vehicle may be parked; and a specific breakdown of fees to be paid will be available at the time of registration.

Disabled veterans, Congressional Medal of Honor recipients, former Prisoners of War, Pearl Harbor survivors, and Purple Heart recipients whose vehicles display the special license plate issued by the Texas Department of Transportation, upon registration and proper notification of UPD, are exempt from the payment of fees for any University surface parking permit for which they are otherwise eligible, in accordance with state law. This privilege applies to the veteran only and not to anyone else driving the vehicle.

### ***Three-Repeat Fee***

A student attempting a class for the third or subsequent time will be assessed an additional \$100 per semester credit hour fee at registration.

### ***Excess Hours Tuition Rate***

Undergraduate resident rate students who have attempted more than 30 credit hours in excess of the required hours for their degree program will be charged tuition at a rate of \$150 per semester credit hour instead of \$50 per semester credit hour. This higher tuition rate will go into effect the next enrolled term after the student reaches this threshold. The exception to this rule would be students who initially enrolled in an institution of higher education prior to fall 1999.

### ***Visitor's Fee***

The fee for visiting a course is the same as that required for registration for credit.

**Other Fees**

Computing Device Fee	up to \$500 (opt in)
Installment Payment Plan Processing Fee	\$15
Installment Payment Plan Late Fee	\$15
Late Payment Fee	\$35
Bachelor's Graduation Fee	\$50
Undergraduate (domestic) Application Fee	\$15
Graduate (domestic) Application Fee	\$35
International Application Fee	\$50
Master's Graduation Fee, Plan Two and Plan Three	\$50
New Student Orientation Fee	\$75
Readmission Fee (Undergraduate)	\$15
Readmission Fee (Graduate)	\$35
Reinstatement Fee	\$363
Testing Fee	\$35
Diploma Reprint Fee	\$25
BBA Fee (ETS Major Field Test)	\$27
MBA/MPA Fee (ETS Major Field Test)	\$31
Educator Preparation Program Fee	\$55

*The following fees are non-refundable: Late Fee, Reinstatement Fees, New Student Orientation Fee, and Deferred Payment Plan Processing Fees.*

**Fines for Breakage and Loss**

Students registered for courses in chemistry will be notified at the end of a semester of breakage or loss of equipment and will be required to pay the amount due at the Student Business Services Office. Students are expected to exercise reasonable care of University property; an assessment will be made for any deliberate misuse.

Students must pay all fines before they can receive a transcript of their credits or can register in the University.

**Refund of Fees**

The Higher Education Amendments of 1998 (HEA98) represent a major shift in the return of Title IV Federal Financial Aid when a student withdraws from the university. The policy governs all federal grant and loan programs (Pell, SEOG, Stafford Loans, Perkins and PLUS loans), but does not include the Federal Work-Study program.

In general, the law assumes that a student "earns" approved (verified) federal financial aid awards in proportion to the number of days in the term prior to the student's complete withdrawal. If a student completely withdraws from school during a term, the school must calculate, according to a specific formula, the portion of the total scheduled financial assistance that the student has earned and is therefore entitled to retain, until the time that the student withdrew. If a student receives (or the University receives on the student's behalf) more assistance than he/she earns, the unearned funds must be returned to the Department of Education or to the Federal

Stafford or parent's Federal PLUS loan lenders. If a student's charges are less than the amount earned, and a refund is due, the student may be able to receive those additional funds. **Students who have not completed the verification process are ineligible to receive any financial aid.**

The portion of the federal grants and loans that the student is entitled to receive is calculated on a percentage basis by comparing the total number of days in the semester to the number of days that the student completed before he/she withdrew. The policy governs the earned and unearned portions of the student's Federal Title IV Financial Aid only. It determines how much, if any, the student and/or the school may need to return. This policy does not affect the student's charges. The University's withdrawal policy will be used to determine the reduction, if any, in the student's tuition and fee or room and board charges. **The student is responsible for paying any outstanding charges to the university.**

### ***Withdrawal Policy***

When a student withdraws from the University during the first twenty (20) days of classes during a long semester, six (6) days during a summer session of more than five weeks but less than 10 weeks and two (2) days during a session of five weeks or less, the University will refund a portion of the tuition and fees charged to a student. The percentages refunded are as follows:

#### **Long Semester (10 weeks or longer)**

- a. prior to the first class day – 100%
- b. during the 1st, 2nd, 3rd, 4th and 5th class days – 80%
- c. during the 6th, 7th, 8th, 9th and 10th class days – 70%
- d. during the 11th, 12th, 13th, 14th and 15th class days – 50%
- e. during the 16th, 17th, 18th, 19th and 20th class days – 25%
- f. after the 20th class day – none

#### **Summer session of more than 5 weeks but less than 10 weeks:**

- a. during class days (1-3) - 80%
- b. during class days (4-6)- 50%
- c. after the 6th class day- None

#### **Summer session of 5 weeks or less:**

- a. 1st class day- 80%
- b. 2nd class day- 50%
- c. after 2nd class day- None

The "first class day" is determined by the beginning of a semester or summer session. The first class day is not defined by individual courses. Please refer to the academic calendar for the first class day date.

The refund will be returned to the student only if the student did not receive financial aid assistance from either Title IV programs or state programs. In the cases where the student did receive assistance from these programs, the refund will be returned to the programs in the following order: Unsubsidized Loan, Subsidized Loan, Perkins Loan, PLUS Loan, Pell Grant, FSEOG Grant, TPEG Grant, RPEG Grant, NPEG Grant and Texas Grant.

The student's official withdrawal date will be determined by the University as:

- a. The date the student began the University's withdrawal process.

- b. The midpoint of the semester if the student withdraws without notifying the University.
- c. The student’s last day of attendance at an academically-related activity as documented by the University.

If it is determined that the University must return to the Title IV programs monies in excess of any tuition and fees or room and board, the student will be responsible for those monies.

Any grant funds that the student is required to return to the federal programs are considered an overpayment. The student must either repay the amount in full to the University within 45 days of notification of the overpayment or make satisfactory payment arrangements with the Department of Education Collections that the student owes an overpayment. At that point, until the student pays the amount in full to the Department of Education or makes repayment arrangements with the Department of Education, **the student will lose his/her eligibility to receive future federal financial aid at any institution.**

***Upon Dropping a Course or Courses***

A 100% refund difference of applicable tuition and fees collected will be made for courses from which students drop (not withdraw) by the Census date for a semester or part of term. There will be no refunds for courses dropped after the Census date. Per the Texas Higher Education Coordinating Board (THECB) the following Census dates apply:

<b>Fall and Spring Semesters</b>		<b>Summer Semester</b>	
<b><u>Length of Term</u></b> <b>(Weeks)</b>	<b><u>Census Date</u></b>	<b><u>Length of Term</u></b> <b>(Weeks)</b>	<b><u>Census Date</u></b>
2 or less	1st Class Day	2 or less	1st Class Day
3	2nd Class Day	3	2nd Class Day
4	3rd Class Day	4	3rd Class Day
5-6	4th Class Day	5-6	4th Class Day
7	5th Class Day	7	5th Class Day
8	6th Class Day	8	6th Class Day
9-10	7th Class Day	9	7th Class Day
11	8th Class Day	10 or more	12th Class Day
12	9th Class Day		
13-14	10th Class Day		
15	11th Class Day		
16	12th Class Day		

For the specific Census date for each term, refer to the published Academic Calendar.

***Refund Policies***

The following policies are used for refunds:

- a. Refunds are processed according to published schedules from the Student Business Services Office. Refunds will be processed through BankMobile and students may choose to receive their refund in one of the following methods:
  - 1. ACH to their personal account at a financial institution

2. BankMobile Vibe checking account
3. Mailed check

The default method is by mailed check if a selection is not made.

- b. Any financial obligations owed the University will be deducted from the refund before the balance is mailed to the student.
- c. Students with a state hold may receive their refund by mailed check regardless of their BankMobile selection.
- d. A student who is required to withdraw because of failure in the work of a previous semester will receive a refund in accordance with the above schedule.

### ***Tuition Rebates for Certain Undergraduates***

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. To be eligible for rebates under this program, students must meet the following conditions:

1. they must have enrolled for the first time in an institution of higher education in the Fall 1997 semester or later;
2. they must be requesting a rebate for course work related to a first baccalaureate degree received from a general academic teaching institution;
3. they must 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 Texas Higher Education Coordinating Board to require more than four years to complete, and;
5. they must 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 they were graduated.

Hours attempted include transfer credit, 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), courses that are dropped after the official census date, for-credit developmental courses, optional internship and cooperative education courses and repeated courses. Courses dropped for reasons that are determined by the institution to be totally beyond the control of the student shall not be counted. 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.

The rebate for eligible students is a maximum of \$1,000. Eligibility requirements and application forms are available via the Registrar's website: <http://www.tamusa.edu/registrar/forms.html>.

## STUDENT FINANCIAL AID PROGRAMS

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*Senator Frank L. Madla Building, Room 106 | (210)784-1300 | [financialaid@tamusa.edu](mailto:financialaid@tamusa.edu)*

The Office of Student Financial Aid & Scholarships assists students in obtaining financial assistance through a variety of federal, state and private sources in order to supplement their own contribution to a college education. The financial gap between the cost of an education and monies available from the family can be complemented by grants, loans, scholarships and/or student employment. Financial aid application materials generally become available on the Office of Student Financial Aid & Scholarships website ([www.tamusa.edu/financialaid/index.html](http://www.tamusa.edu/financialaid/index.html)) each academic year.

The content of this catalog's subsection is to assist the student in understanding the programs and policies related to the aspects of financial aid and associated programs. The information is subject to revision. For more detailed and current information, it is suggested that the student contact the Texas A&M University – San Antonio, Office of Student Financial Aid & Scholarships.

To be considered eligible for financial aid at A&M-San Antonio an applicant must:

- Complete a Free Application for Federal Student Aid (FAFSA) or Texas Application for State Financial Aid (TASFA)
- Be enrolled and accepted to Texas A&M University – San Antonio as a regular student in an eligible degree or eligible certificate program;
- Not be enrolled simultaneously in elementary or secondary school
- Meet one of the following academic criteria:
  - Have a high school diploma
  - Have the recognized equivalent of a high school diploma (See Office of Admission for relevant policies and procedures)
  - Be home schooled (See Office of Admission for relevant policies and procedures)
- Be a US citizen or an eligible noncitizen;
- Be registered with Selective Service for most males between the ages of 18 and 25;
- Must have a valid Social Security number for federal aid seeking students;
- Demonstrate financial need (for most programs);
- Not be in default on a Title IV loan or, if in default, have made satisfactory repayment arrangements with the loan servicer
- Have not obtained loan amounts that exceeds annual or aggregate loan limits made under any Title IV loan program
- Not be liable for any overpayment of a Title IV grant or Federal Perkins Loan or, if liable, have made satisfactory repayment arrangements with the holder of the debt

- Not have property which is submit a judgment lien for a debt owed to the U.S. or, if submit to a judgment lien, have made satisfactory repayment arrangements with the debt holder
- Not have been convicted of an offense involving the possession or sale of illegal drugs that occurred while enrolled and receiving Title IV aid ;
- Have completed repayment of funds to either ED or the holder of a loan, as applicable, if the student has convicted of, or pled nolo contendere or guilty to, a crime involving fraud in obtaining Title IV aid
- Federal regulations require a student to be making satisfactory progress toward the completion of a degree or certification to be eligible to receive Title IV funds. The Financial Aid Office at A&M-San Antonio applies this rule to ALL students applying for aid. Please review the Satisfactory Academic Progress Requirements ([SAP](#)).
- Students must re-apply for financial assistance **every year** by completing the requirements stated above. The award does not continue automatically beyond award year;

### **GENERAL INFORMATION**

It is the student's responsibility to know and comply with all requirements and regulations of the financial aid programs in which they participate. In addition, it is the student's responsibility to read all information sent to the Jaguar email, which is considered the official means of communication for such purposes, and check the JagWire account regularly for additional financial aid requirements. Financial aid awards may be reduced or cancelled if the requirements of the award are not met. Students receiving any Federal Direct Loans are expected to accept responsibility for the promissory note and all other agreements that they sign. Students must comply with all Federal dates and deadlines. All financial aid awards are made under the assumption that the student's status (full-time) has not changed. Any change in the student's status must be reported, in writing, to the Office of Student Financial Aid & Scholarships as it can affect the financial aid award.

Students receiving Federal Title IV funds are subject to the following withdrawal/refund process for those funds: The University is required to return to the federal aid programs the amount of aid received that was in excess of the aid "earned" for the time period the student remained enrolled. Students who remain enrolled through at least 60% of the payment period (semester) are considered to have earned 100% of the aid received.

If the University is required to return funds to Title IV aid programs, those funds must be returned in the following order:

- Unsubsidized Direct Loans (other than Direct PLUS Loans)
- Subsidized Direct Loans
- Direct PLUS Loans
- Federal Pell Grants for which a return of Title IV funds is required
- Federal Supplemental Educational Opportunity Grants for which a return of Title IV funds is required
- Iraq and Afghanistan Service Grant for which a return of Title IV funds is required

Returning funds to these programs could result in a balance coming due to the University on the student's account

Federal regulations require that schools monitor the academic progress of each applicant for federal financial assistance and that the school certify that the applicant is making satisfactory academic progress toward earning his/her degree. Please refer to Texas A&M University – San Antonio's Satisfactory Academic Progress Policy for detailed information.

## **STUDENT'S RIGHTS AND RESPONSIBILITIES**

Students have the right to:

- Know what federal, state, and institutional financial assistance is available;
- Know the financial aid procedure and how aid is awarded;
- Know how and when financial aid is paid;
- Know the cost of attendance at Texas A&M University – San Antonio;
- Know and comply with the Return of Title IV Aid Policy for withdrawal;
- Know what portion of financial aid is grant (gift) aid;
- Know what portion of financial aid is loan and the terms of the loan at the time it is made. This includes interest rate, grace period, and terms of payback, including a sample repayment schedule;
- Know how much need has been met by your award;
- Know the criteria for continued aid eligibility.

A student also has the responsibility to:

- Pay special attention to his/her application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay the receipt of the financial aid package.
- Read all information sent to the Jaguar email, which is considered the official means of communication for such purposes, and check the JagWire account regularly for additional financial aid requirements.
- Provide all additional information requested by either the Office of Student Financial Aid & Scholarships or the agency to which the application was submitted.
- Read and understand all forms he/she is asked to sign, and keep copies of them.
- Perform in a satisfactory manner, as determined by the employer, the work that is agreed upon in accepting a Federal Work-Study job.
- Know and comply with the deadlines for applications, appeals and/or withdrawals for financial aid.
- Know and comply with the University's refund procedures.
- Notify the Office of Student Financial Aid & Scholarships and the lender of a loan (e.g., Federal Direct Loan) of any change in name, address, or school status.
- Complete the Entrance Counseling session if he/she is a new loan borrower.
- Complete the Exit Counseling session prior to withdrawal or graduation. Upon leaving the institution, a hold is placed on a student's account to prevent the receipt of an official transcript or diploma. Completion of Exit Counseling will allow for removal of the hold.
- Not receive a Federal Pell Grant or other Title IV aid from more than one college/university for the same semester.
- Know that Pell Grant is an automatically accepted award and student must notify the Office of Student Financial Aid & Scholarships if not attending the university.

## **APPLYING FOR FINANCIAL AID**

Each applicant must complete the financial aid application and requirements before financial aid eligibility can be determined. The majority of general financial aid funds are awarded on a first-come, first-serve basis to eligible students who document significant financial need, who complete their application materials to the Office of Student Financial Aid & Scholarships by the January 15 priority date, and are accepted to the University at the time of awarding. Application completion is defined as having the results of the FAFSA (Free Application for Federal Student Aid) and all other required documents into the Office of Student Financial Aid & Scholarships.

The FAFSA is available at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Financial aid is awarded to students who demonstrate need and/or meet the priority date until all of the funds are committed for the year. If the file is completed after January 15, the awards may be limited to Federal Pell Grant, Federal Direct Loans and any funding that remains. Students must

apply annually (on or after October 1<sup>st</sup> of each year) for financial aid consideration as financial aid does not automatically cross over from one award year to another.

It is the student's responsibility to be sure application materials are complete. Please contact the Office of Student Financial Aid & Scholarships for application forms and complete details. This information may also be obtained online at [www.tamusa.edu/financialaid](http://www.tamusa.edu/financialaid). All financial aid policies and procedures are subject to change due to revisions in federal and state laws, regulations and guidelines and applicable institution policies.

#### **FAFSA Priority Deadlines: January 15<sup>th</sup>**

##### **How to Apply:**

1. Apply for a student and/or parent Federal FSA ID Login online. A FSA ID Login is required to access and sign the Free Application for Federal Student Aid (FAFSA).
2. Complete the FAFSA online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Students should use the Federal School Code for A&M-San Antonio: **(042485)**.
3. Students are notified via e-mail when their Student Aid Report (SAR) is ready for review and has been forwarded to the school(s) of their choice. The SAR is emailed to students 7-10 days after completing the FAFSA. If there are SAR errors, students should correct them online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) as soon as possible.
4. Students should monitor their status online through [JagWire](#). The U.S. Department of Education randomly selects students for verification. If selected, students will be required to submit specific documents to complete the financial aid process. Students also will receive notification via the official university email account of any additional documentation required to complete the federal verification process.
5. To be eligible for federal funding, students MUST be a fully admitted and a degree-seeking student. Students can check their status online through [JagWire](#).
6. Typically, students are notified in writing of their financial aid eligibility approximately four to six weeks after all application materials have been received in the Office of Student Financial Aid & Scholarships. If awarded, an award notice is e-mailed via JagWire to the student. The award notice will include information such as the types and amounts of financial aid awarded. The three primary types of financial aid will include grants, loans and student employment if eligible and subject to availability.

Financial Aid Advisors are available in the University Welcome Center. Rm 111 in the Frank Madla Building to assist students through any step in the financial aid process.

##### **Students may contact the Department of Education at:**

Federal Student Aid Information Center  
1-800-4-fed-aid (1-800-433-3243)  
9:00 a.m. to 8:00 p.m. (Eastern Standard Time)

##### **Cost of Attendance**

The cost of attendance (COA) is an estimate of what it costs the typical student to attend A&M-San Antonio. The cost of attendance is derived from data provided on the student's FAFSA. The amounts cover college tuition and basic living expenses.

When comparing financial aid packages from other schools, students should compare the total cost of attending a specific school(s), not just the total financial aid awarded. It is important to budget and make wise decisions regarding how to utilize financial aid funds.

**Tuition and Fees:** The average cost of tuition and fees for a typical undergraduate student is based on enrolling for 30 hours per academic year (Fall and Spring terms). The average cost of tuition and fees for a typical graduate student is based on enrolling for 18 hours per academic year. The actual costs that a student incurs will vary depending on the student's degree or certificate program.

**Room and Board:** A reasonable estimate of what it costs to live in San Antonio while attending school for an academic year. Actual costs may vary by individual choices related to location and circumstances. Typically includes rent, food, snacks, household supplies, and utilities.

**Books and Supplies:** The average cost of books and supplies for a typical student for an entire academic year. Typically includes books, educational supplies, course materials, and computer-related expenses excluding the purchase of a personal computer.

**Transportation:** Represents travel to and from a student's permanent residence, and transportation costs to and from their local address in order to attend class and work (e.g., gasoline, parking).

**Miscellaneous:** Estimate of costs for clothing, haircuts, entertainment and other miscellaneous expenses. Actual expenses spent on these types of items may be higher or lower depending on the student's lifestyle.

Adjustments to Cost of Attendance will be considered for one-time purchase of a computer, child care, and study abroad.

### **REVIEWING FINANCIAL AID STATUS**

Students can review their financial aid status by completing the following steps:

1. On the A&M-San Antonio homepage, [www.tamusa.edu](http://www.tamusa.edu), hover over the **Quick Links**, and select **JagWire**.
2. Log in using the Windows Domain account.
3. Select **Paying for College**.
4. In the Financial Aid Steps section, select **Review your Financial Aid Requirements**.
5. Another window will open; select each of the tabs to view outstanding requirements, holds, and your Satisfactory Academic Progress.

Students should familiarize themselves with their University e-mail address to ensure they receive important financial aid messages. For instance, award letters are e-mailed to the student's University email account informing the student of their financial aid award, amount, source, and any other requirements that may be required to receive financial assistance. The student must accept or decline the financial aid award and amount. If the financial aid award or amount is accepted by the student, the Office of Student Financial Aid & Scholarships will apply the financial aid award and amount as a payment to the student's account with Student Business Services. If declined, no financial aid or assistance will apply to the student's account with Student Business Services.

### **ACCEPTING AWARDS ONLINE**

To accept financial aid awards, students should complete the following steps:

1. On the A&M-San Antonio homepage, [www.tamusa.edu](http://www.tamusa.edu), hover over the **Quick Links**, and select **JagWire**.

2. Log in using the Windows Domain account.
3. Select **Paying for College**.
4. In the Financial Aid Steps section, select **Review/Accept Terms & Conditions and Award**.
5. Select the appropriate Aid Year and submit.
6. Select the **Terms and Conditions** tab. Review all terms and conditions and select agree. Note: all students must agree to the Terms and Conditions before accepting financial aid on JagWire and before any financial aid will disburse.
7. Select the **Accept Award Offer** tab and finalize award decision.
  - a. To accept full loan amounts offered, select **Accept All Awards**.
  - b. To accept a partial amount, type in the amount desired, change the drop down box to accept, and select **Submit Decision**. If a student accepts a federal student loan, they must complete the federal requirements associated with the loans, such as completing Entrance Counseling and signing the Master Promissory Note. Students can complete these requirements at [www.studentsloan.gov](http://www.studentsloan.gov)

**Note:** Please know that Pell Grant is an automatically accepted award and **student must notify the financial aid office if not attending the university**. Students registered in any term and have Pell Grant eligibility applied will have their classes automatically held from being dropped and the student is responsible for any and all tuition and fees.

### **TYPES OF AID**

There are various types of financial aid at A&M-San Antonio, which consists of grants, loans, student employment and scholarships. These types of financial aid are available to any student who qualifies. In order to qualify, a student must complete a Free Application for Federal Student Aid (FAFSA) at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). To find out more information on the types of grants offered at A&M-San Antonio, please read additional information pertaining to each grant.

### **Grants**

Grants are gift aid programs that do not have to be repaid. Grants are awarded based on a federal need analysis formula and are mostly awarded on first completed, first awarded basis.

### ***Federal Pell Grant***

The Federal Pell Grant Program helps eligible students defray the cost of post-secondary education. The Federal Pell Grant is a federal aid program designed to provide a "foundation" of financial assistance to all eligible undergraduate students and may be combined with other forms of aid to meet the full cost of education. To qualify, a student must demonstrate financial need. The amount of the grant is based on the computed Expected Family Contribution (EFC), student's enrollment status as a full-time or part-time student, their plans to attend school for a full academic year or less, and the cost of attendance. Students enrolled for less than full-time will receive a reduced grant award in accordance with federal grid tables. Federal Pell Grant eligibility is limited to 12 semesters or 6 years of undergraduate study (See **Continued Eligibility** Section).

Eligibility must be established each year:

- A student must be enrolled in an eligible program as a degree-seeking student.
- A student must be an undergraduate who has not earned a first baccalaureate degree.
- Meet the requirements of the Satisfactory Academic Progress Policy.

### **Eligibility**

Federal Pell Grant is based on established financial need to undergraduates only. Eligibility ends with first baccalaureate degree or a change to graduate status as determined by the Registrar's office.

## Continued Eligibility

Students must maintain at least half-time enrollment in most cases, continue to meet Satisfactory Academic Progress requirements and continue to demonstrate financial need.

The amount of Federal Pell Grant funds the student may receive is limited by federal law to be the equivalent of six years or 600% of eligibility used.

If a student's Federal Pell Grant eligibility used equals or exceeds 600%, the student will no longer receive Federal Pell Grant funding. Similarly, if a student's Federal Pell Grant eligibility used is greater than 500% but less than 600%, the student may be eligible for a Federal Pell Grant, but may not be able to receive a full scheduled award.

Students can log on to [National Student Loan Data System](#) (NSLDS®) using their FSA ID and view their Federal Pell Grant eligibility used. The Federal Pell Grant eligibility used can be found on the Financial Aid Review page.

To learn more about the Federal Pell Grant limits and how eligibility is calculated, please visit <https://studentaid.ed.gov/types/grants-scholarships/pell/calculate-eligibility>.

### **Federal Supplemental Education Opportunity Grant (FSEOG)**

The FSEOG program was established to assist in making the benefits of post-secondary education available to qualified students who, for lack of financial means of their own or of their families, would be unable to obtain such benefits without the grant.

The (FSEOG) provides grants to students who demonstrate the greatest financial need. Students must be eligible for the Federal Pell Grant and demonstrate exceptional financial need. Eligible students must be citizens or eligible noncitizens of the U.S. who are accepted for admission and are enrolled at least half-time as undergraduate students, and are maintaining Satisfactory Academic Progress.

- A student must meet all Title IV requirements.
- A student should demonstrate exceptional financial need, be eligible for a Federal Pell Grant and have a 0 EFC (Expected Family Contribution).
- A student must be an undergraduate who has not earned a first baccalaureate degree.

The maximum award at A&M-San Antonio is \$1000 per semester or \$2000 per academic year and is awarded first to those with lowest EFC's who are eligible for Federal Pell Grants. If funds are still available, FSEOG is awarded to remaining students with the lowest EFC. Any exception to these limits is made on an individual basis based on the professional judgment of the Director.

### **TEXAS Grant (Toward Excellence, Access & Success Grant Program)**

This state grant is awarded to students who are working on their first undergraduate degree. Students must also meet certain financial need requirements and have earned either a recommended or distinguished achievement high school diploma. To be eligible for the TEXAS Grant:

- have previously received a TEXAS Grant
  - be a resident of Texas
  - have not been convicted of a felony or crime involving a controlled substance
  - have financial need (as demonstrated by FAFSA)
  - have not exhausted TEXAS Grant eligibility
  - meet TEXAS Grant Satisfactory Academic Progress (SAP)—see below
  - enroll in an undergraduate degree program on at least a three-quarter time basis
- OR
- have earned an associate degree from a public technical, state or community college in Texas and
  - enroll in any public university in Texas no more than 12 months after receiving the associate degree.

- be a resident of Texas
- have not been convicted of a felony or crime involving a controlled substance
- have an Expected Financial Contribution (EFC) less than or equal to 5430
- enroll in an undergraduate degree program on at least a three-quarter time basis (9 SCH)

#### TEXAS Grant SAP Requirements

- At the end of the first year, a student entering the program must meet Texas A&M University-San Antonio's Satisfactory Academic Progress (SAP) requirement.
- Renewal Texas Grant recipients must have an overall college grade point average (GPA) of at least 2.5 on a 4.0 scale and complete at least 24 semester credit hours per year.
- For more information regarding Texas Grant, please visit College For Texans

Important: The award amount (including state and institutional funds) is equal to the student's tuition and required fees. Preference will be given to students with the lowest EFC (Estimated Family Contribution) and will continue as funds permit.

#### ***Texas Public Educational Grant (TPEG)***

The Texas Public Educational Grant program was established in 1975 to furnish financial assistance to needy students attending public institutions of higher learning in Texas. Awards approved through this program are derived from a combination of federal and state funds. Student must be a citizen or an eligible noncitizen of the U.S., maintain satisfactory academic progress, and demonstrate financial need. The maximum award is \$2000 per academic year.

#### ***Undergraduate and Graduate Tuition Grant***

Student must be a Texas Resident, maintain satisfactory academic progress, and demonstrate financial need. The maximum award is \$2000 per academic year.

#### **WORK STUDY**

The Work-Study Program helps eligible students defray the cost of post-secondary education. The Work-Study Program is a financial aid program designed to provide part-time employment opportunities with eligible on-campus and off-campus entities. Eligible students also have the opportunity to gain valuable experience while pursuing a college education. To qualify, a student must demonstrate financial need and must be enrolled at half-time. The amount of the award may vary based on the student's classification and grade level. Once awarded, the student must interview, and secure employment with on or off campus entities that are established in the Work-Study Program.

Eligibility must be established each year:

- A student must be enrolled in an eligible program as a degree-seeking student.
- A student must meet all Title IV requirements.

#### **Work Hours**

While classes are in session you can work up to a maximum of nineteen (19) hours per week.

#### **Work-Study Dress**

Offices typically require work-study students to dress business-casual. Some offices allow their work-study students to dress more casually, so student must be sure to check with their employer. Students must remember that they are working in a professional setting and need to dress accordingly.

#### **Jobs Other Than Work-Study**

Work-study is awarded on a first-come, first-served basis to students with financial need (as determined by the student's FAFSA). Therefore, work-study funds are limited. Student may contact Career Services regarding regular

wage positions both on and off campus. Many on-campus regular wage positions offer work opportunities in the same offices in which work-study students are employed.

**Dates for Earning Work-Study Award**

Work-study is awarded by semester. To earn work-study wages during a semester, a student must have been awarded the funds for that period and be working in a work-study position. The days within a semester in which a student can earn work-study wages will be published on the Texas A&M University-San Antonio Financial Aid website.

**FEDERAL DIRECT LOANS**

The Direct Loan program is provided and administered by the U.S. Department of Education. Student loan borrowing cannot exceed the cost of attendance, nor may the student borrow over the annual and lifetime aggregates that are set for Direct Loans by the U.S. Department of Education. The type of loan offered is based upon the results of the FAFSA.

Loan Type	Origination Fees	Interest Rate
Undergraduate Subsidized Direct Loan	1.062%	5.05%
Undergraduate Unsubsidized Direct Loan	1.062%	5.05%
Graduate Unsubsidized Direct Loan	1.062%	6.60%
Direct PLUS Loans (Parent & Graduate)	4.248%	7.60%

Origination fees are fees assessed by lenders to help offset the cost of processing the loan. The origination fee is assessed on each loan disbursement. Origination fees are subject to change under the regulations set by the U.S. Department of Education.

Interest rates are amounts charged to a borrower for the privilege of using the lender’s money. The interest is calculated as a percentage of the principal balance of the loan. Interest rates are subject to change under the regulations set by the U.S. Department of Education.

**Direct Loan Processing**

Students must complete the following steps to accept a Direct Loan:

Step 1: Accept or Reject the Direct Loan

- On the A&M-San Antonio homepage, [www.tamusa.edu](http://www.tamusa.edu), hover over the **Quick Links**, and select **JagWire**.
- Log in using the Windows Domain account.
- Select **Paying for College**.
- In the Financial Aid Steps section, select **Review/Accept Terms & Conditions and Award**.
- Select the appropriate Aid Year and submit.
- Select the **Accept Award Offer** tab and finalize award decision.

Step 2: Complete Entrance Counseling (All new borrowers)

- Visit [www.studentloans.gov](http://www.studentloans.gov)
- Sign in and select **Complete Counseling**.
- In the Entrance Counseling section, select **Start**.

Step 3: Complete Electronic Master Promissory Note (MPN) (All borrowers)

- Visit [www.studentloans.gov](http://www.studentloans.gov)
- Sign in and select **Complete Master Promissory Note**.
- Select Texas A&M University-San Antonio as your school.
- The Office of Student Financial Aid & Scholarships will receive electronic confirmation when the student has completed Entrance Counseling and the Master Promissory Note.

**Federal Direct Loan Limits**

Annual and lifetime (total debt) limits for subsidized and unsubsidized student loans are mandated by the U.S. Department of Education. The amounts include the outstanding principal balance on the loan(s) and not interest or other charges incurred.

<b>Dependent Undergraduate Students</b>		
	Subsidized Loan	Additional Unsubsidized
Freshman	\$3,500	\$2,000
Sophomore	\$4,500	\$2,000
Junior/Senior	\$5,500	\$2,000
Maximum Total Debt <sup>1</sup>	\$31,000 (\$23,000 may be Subsidized)	
<b>Independent Undergraduate Students</b>		
	Subsidized Loan	Additional Unsubsidized
Freshman	\$3,500	\$6,000
Sophomore	\$4,500	\$6,000
Junior/Senior	\$5,500	\$7,000
Maximum Total Debt <sup>1</sup>	\$57,500 (\$23,000 may be Subsidized)	
<b>Graduate/Professional Students</b>		
Unsubsidized Loan	\$20,500/Academic Year	
Maximum Total Debt <sup>1,2,3</sup>	\$138,500 (\$65,500 may be Subsidized)	

<sup>1</sup>All "Maximum Total Debt" amounts include both Direct and FFELP subsidized and unsubsidized loans.

<sup>2</sup>The graduate total debt limit includes subsidized and unsubsidized student loans received during undergraduate study.

<sup>3</sup>As of Fall 2012, Federal Direct Subsidized Loans are no longer offered to Graduate Students due to changes in Federal Regulations.

### **Direct Loan Exit Counseling**

Upon withdrawing, graduating, dropping below half-time, or simply not returning to A&M-San Antonio, students will be sent information on how to complete Exit Counseling. Upon leaving the institution, a hold is placed on a student's account to prevent the receipt of an official transcript or diploma. Completion of Exit Counseling will allow for removal of the hold.

### **DISBURSEMENT OF FINANCIAL AID**

#### **General Information**

- Student must be enrolled before funds may be disbursed.
- Student eligibility must be confirmed by the OSFA before funds are disbursed.
- Be enrolled and accepted to Texas A&M University – San Antonio as a regular student in an eligible degree or eligible certificate program.
- Specific questions on individual cases should be addressed to the OSFA at 210-784-1300.

#### **Loans (Students must be enrolled at least half-time.)**

- Federal Direct Stafford Loan: Students must complete a Loan Entrance Counseling session and sign a Master Promissory Note (MPN) before funds may be disbursed.
- First-time borrowers in the first year of an undergraduate program must wait 30 calendar days after the first day of classes to have their federal student loans disbursed.
- Federal Direct PLUS Loan: Parents who are awarded a Federal PLUS Loan must receive an approved credit decision from the lender and complete an electronic PLUS Loan Counseling and Master Promissory Note (MPN) before funds may be disbursed. A parent authorization form must be submitted to the Student Business Services Office (SBS) prior to disbursement.
- Federal Direct Loans, Federal Direct PLUS Loans: Borrowers who use these funds to finalize their tuition and fees charges may elect to cancel their loans and use another form of payment within 14 days of disbursement. The OSFA must be notified in writing of the cancellation within 14 days of disbursement.

#### **Disbursement Procedures**

Once all requirements have been met:

- Funds awarded from the following may be applied directly to the student's account with Student Business Services (SBS) :

##### **GRANTS**

Federal Pell

Federal SEOG

State Grants

Scholarships

##### **LOANS**

Federal Direct Loans

Federal Direct PLUS Loans

- Any remaining balance to the student's account must be paid to the SBS Office prior to the published deadline.
- Eligibility is reviewed again at the end of the drop/add period (census date), and appropriate funds are disbursed to the student's SBS Office account. The OFSA is required to make any necessary adjustments to the student's financial aid award per the enrollment audit review during each semester.

- Any excess of funds will be disbursed to the student via BankMobile. Direct deposit to the student's financial institution or will be mailed to the student in the form of a paper check if the student is not signed up for direct deposit. Here are some helpful instructions:  
[www.tamusa.edu/SBS/StudentAccountsAndBilling/Refunds.html](http://www.tamusa.edu/SBS/StudentAccountsAndBilling/Refunds.html).

### **TERMS AND CONDITIONS FOR FINANCIAL AID**

Students must accept the Financial Aid Terms and Conditions which authorizes A&M-San Antonio to apply all financial aid funds to the student's A&M-SA account with Student Business Services. Funds will be used to pay any current outstanding educational charges if needed. Thereafter, any excess proceeds will be released to the student. The student is responsible for officially notifying the appropriate offices, beginning with the Registrar's Office, if the student decides not to attend A&M-SA. The student also is responsible for repayment of all unearned funds that previously disbursed as a result of registering and not officially withdrawing within a semester. For further details see the following link:

<http://www.tamusa.edu/financialaid/applyforaid/termsandconditions.html>

### **ENROLLMENT AT MULTIPLE INSTITUTIONS**

A student may not receive a Federal Pell Grant and/or Federal Student Loans from more than one institution during the same enrollment period (or semester). If it is determined that a student is receiving aid from more than one institution, the Office of Student Financial Aid & Scholarships will revise that student's financial aid award(s) accordingly. In the event that the financial aid is reduced or cancelled, the student will owe a balance to the Student Business Services Office.

***Per FAFSA Step Seven Disclaimer: The student and/or parent signs the application certifying that the student (1) will use federal and/or state student financial aid only to pay the cost of attending an institution of higher education, (2) are not in default on a federal student loan or have made satisfactory arrangements to repay it, (3) do not owe money back on a federal student grant or have made satisfactory arrangements to repay it, (4) will notify your college if you default on a federal student loan and (5) will not receive a Federal Pell Grant from more than one college for the same period of time.***

### **SATISFACTORY ACADEMIC PROGRESS (SAP) POLICY FOR FINANCIAL AID**

#### **Academic Progress Standards**

*The policy, Satisfactory Academic Progress (SAP), is standard for all students who receive federal, state, or institutional aid. Regulations for federal, state, and institutional financial assistance require post-secondary institutions to develop reasonable academic standards that measure a student's progress toward a degree for the receipt of aid. At A&M-San Antonio, Office of Student Financial Aid & Scholarships (OSFA) is responsible for establishing and evaluating minimum SAP standards for recipients of financial aid. SAP standards are evaluated at the end of spring semester for all undergraduate and graduate students with a financial aid record. Financial Aid SAP status includes all previous academic history, even if the student did not receive financial aid.*

*For Title IV purposes, students are evaluated based on both qualitative and quantitative standards in order to meet Satisfactory Academic Progress. Students must meet a certain cumulative grade point average (GPA), maximum hours attempted threshold, and have a satisfactory completion rate in order to be considered meeting Satisfactory Academic Progress. Certain scholarships and grant programs may have*

*more stringent requirements in order to maintain eligibility for that scholarship. Overall financial aid eligibility will still be determined using the SAP standards. All students, regardless of enrollment status (full-time, part-time, etc.) are subject to the same Satisfactory Academic Progress standards.*

**Qualitative Measures of Academic Progress**

The qualitative measure of academic progress is a grading scale of 0.00 to 4.00, based on students' enrollment classification. Incoming freshmen, graduate students, or transfer students will be eligible to apply for financial assistance upon admission to the university during their initial term. Undergraduate students must achieve a minimum cumulative grade point average of 2.00 at A&M-San Antonio to maintain eligibility for financial assistance. Graduate students must achieve a minimum cumulative grade point average of 3.00 at A&M-San Antonio to maintain eligibility for financial assistance.

**Quantitative Measures of Academic Progress**

While students are expected to enroll in full-time to be eligible for the maximum financial aid, each student must successfully complete at least 67% of all credit hours attempted. This percentage includes all institutional and transfer credit hours, regardless of whether or not financial aid was received. Attempted hours also includes transfer hours and courses for which you received no financial aid.

In addition to maintaining a minimum grade point average, students must demonstrate acceptable progress toward a degree or certificate objective in order to remain eligible for financial assistance. Students cannot receive financial aid beyond a specified total of attempted credit hours; and they must pass a certain percentage of the credit hours for which they enroll. These requirements are summarized as total credit hours and ratio of earned hours to attempted hours in the chart below.

<b>Classification</b>	<b>Grade Point Average</b>	<b>Ratio of Passed Hours to Attempted Hours</b>	<b>Total Attempted Hours (including transfer credits)</b>
Undergraduate	Minimum 2.0	67%	180 credit hours <sup>A,B</sup>

<sup>A</sup> Includes remedial courses

<sup>B</sup> Second Baccalaureate: additional review required

Hours earned do not include grades of “F” (failed), “I” (incomplete), “W” (withdrawal) or “WX” (withdrawal excluded from the sixth drop), “WI” (withdrawal identifier for Senate Bill 1231). Courses that have been repeated will be counted for each enrollment as hours attempted, and will be counted as hours passed if a grade other than F, I, W, WX, or WI is received. Remedial course credits also will be used to determine a student’s enrollment status for financial aid eligibility.

**Maximum Hour Limit**

Federal regulations require that a student complete his program of study within 150% (length of program x 1.5) of the time allotted for the program. For example, if an undergraduate degree is 120 credit hours in length, a student with this major must complete the program within 180 (120 x 1.5) credit hours. All credit hours attempted at A&M-San Antonio, including repeated courses with a grade of F, I, W, WX, or WI, and all transfer hours to be used toward a degree at A&M-SA that were pursued at a previous institution, will be counted in the determination of hours attempted. After attempting 180 credit hours, the student’s financial aid eligibility will be terminated for this program.

*For students seeking their first bachelor’s, the maximum number of credit hours (180 total attempted hours). For first master’s, the maximum credit hours (54 total attempted hours) is limited to 150% of the published degree program length and*

*includes all hours attempted (including repeats and withdrawals) at any institution of higher education and any hours accepted in transfer, even if financial aid was not received. Evaluated credit also will be included in the total attempted hours once articulated by the Registrar's Office.*

Students pursuing a second bachelor's or master's degree will be required to provide a SAP Appeal Application as well as the required documentation stated on the SAP Appeal Application to appeal additional financial aid for the remaining number of credit hours needed to complete the program.

*A student's SAP status (quantitative and qualitative) is calculated at the end of the spring semester for all students enrolled at A&M-San Antonio regardless of whether they are receiving financial aid.*

### **Financial Aid Suspension**

*If a student does not meet the SAP requirements by the end of the spring semester, the student will be placed on financial aid suspension. Once the student is on financial aid suspension, the student is not eligible to receive financial aid until he/she meets the SAP requirements.*

### **Appeal Process**

*Students who have been placed on financial aid suspension will be given the opportunity to appeal to have their financial aid reinstated. Students who have encountered circumstances beyond their control which have negatively affected their ability to meet the minimum SAP criteria may appeal their SAP status before the term deadline.*

An appeal must be submitted to the Office of Student Financial Aid & Scholarships (OSFA) and approved before aid can be disbursed in future semesters. Appeals must be completed by the student. Any student anticipating the necessity of initiating an appeal should be prepared to pay his or her own registration fees in the event the appeal is not approved or is approved after the payment deadline. If the appeal documents are incomplete or lack sufficient corroborating documentation, the review and decision process could be delayed or denied. The Financial Aid Appeal Committee will review appeals and validate the attached documentation, to determine if the student's extenuating circumstances should be taken into consideration for approval of their appeal.

*Students must provide the following documentation, along with their completed SAP Appeal Application to be considered:*

- *Provide a personal statement that explains:*
  - *The factors beyond the student's control contributing to the student's lack of academic progress. It is assumed that each student appealing is dependent upon financial aid for the completion of his/her degree, so this explanation is not considered reason for approval. Students should not discuss their need for financial aid in their appeal, as this is not grounds for approval.*

- *How his/hers personal circumstances have changed so that it will no longer impede his/hers academic progress.*
- *What measures the student is taking to ensure his/hers academic success in the future, such as a reduction in enrollment, utilizing tutoring, etc. Be specific.*
- *Attach supporting documentation to substantiate his/hers reason(s) for the appeal which corresponds to the periods of poor performance (i.e. medical documentation, death certificates, obituaries, doctor's notes etc.). SAP Statements without corroborating documentation will be considered incomplete and be denied for the semester.*
- *An updated degree plan signed by both student and Academic Advisor must be included.*
- *Provide a print out of the completion of the Exit Counseling Session from [www.studentloans.gov](http://www.studentloans.gov).*

The Appeal Form can be obtained at the Office of Student Financial Aid & Scholarships or online at: <http://www.tamusa.edu/financialaid/financialaidforms.html>. (Disclaimer: The Appeal Form will not be available to students after the submission deadline for each semester.)

Failure to provide the required documentation will result in the denial of the student's appeal. All information will become a part of the student's confidential financial aid record and cannot be returned. The student will receive notification from the Financial Aid Office within two to four weeks regarding the status of the appeal. Appeals submitted after the first day of class each semester may require additional time for review and a response.

#### Priority Deadlines

- **Fall semester = Census Date**
- **Spring semester = Census Date**
- **Summer semester = Census Date for first summer term**

#### Approval of Appeal

*If the student's appeal is approved, the student's SAP status is updated in JagWire as SAP "Appeal Approved" and the requirement for "Counseling Request" (to meet with Financial Aid). The student will be placed on a SAP Academic Plan for Success for every future term until the end of summer in the aid year of the SAP appeal. The student must appeal at the beginning of every Fall term if he/she is still not meeting SAP standards for financial aid. A Financial Aid Officer will review the SAP Academic Plan document with the student to establish the agreed requirements that the student must meet within that term for future aid consideration. The SAP Academic Plan is not considered valid until it has been signed by both the student and the Financial Aid Officer. The student is provided a copy of the signed SAP Academic Plan to ensure that the student is aware of the agreed requirements.*

Students, whose eligibility for Financial Aid is approved for reinstatement by the Financial Aid Appeal Committee, are awarded effective with the academic term for which the Appeal is requested. Approval will not impact prior terms. All tuition and fees incurred during the period of time the student was suspended are the sole responsibility of the student.

### **Monitoring of SAP Academic Plan**

SAP Academic Plans are reviewed at least once per academic term. Failure to adhere to the conditions of the Academic Plan will result in the denial or cancellation of all future aid until the student has met the minimum standards of Satisfactory Academic Progress at their expenses. Additionally, the student must submit a detailed midterm written progress report for their courses in person to the Office of Student Financial Aid & Scholarships for each term while under SAP Appeal Status.

### **Denial of Appeal**

*If the appeal is denied, students will be ineligible for future aid until they have met the minimum standards of Satisfactory Academic Progress. No future appeals will be accepted for the denied term. The decision made by the Financial Aid Appeal Committee is final unless there are other mitigating circumstances not documented in the original appeal.*

### **REPAYMENT OF FINANCIAL AID DUE TO WITHDRAWAL**

If a student at Texas A&M University-San Antonio withdraws from all registered courses and received any type of financial aid to include, federal, state, or institutional funds, the student may be required to repay all or some of those funds to its original source.

The U.S. Department of Education specifies how Texas A&M University- San Antonio must determine the amount of federal financial aid that a student earned or unearned if he or she withdraws from the university. Federal financial aid covered under federal regulations and guidance defined as: (1) Unsubsidized Direct Loan, (2) Subsidized Direct Loan, (3) Direct PLUS Loan (4) Federal Pell Grant, (5) Federal SEOG, and (6) Iraq and Afghanistan Service Grant.

The amount of federal financial aid earned or unearned is determined by the number of days the student completed in the term. In order for a student to have earned all federal financial aid, the student must be enrolled through the 60 percent of the term. However, if student withdraw, drop out, or stop engaging before this period, the student may only receive a prorated portion of their federal financial aid for that term. The financial aid percentage is determined by dividing the number of completed days by the number of total days in the semester. The number of completed days is calculated by subtracting the start of the semester from the day the student withdrew from the school by written notification. The earned percentage is multiplied by the amount that the student was eligible to receive to determine the amount of aid that the student has earned. If a student withdraws prior to the term's scheduled disbursement, they are not eligible for any of that term's aid.

*\*The percent **earned** is equal to the number of calendar days completed up to the withdrawal date, divided by the total calendar days in the payment period (less any scheduled breaks that are at least 5 days long)*

*\*The payment period for most students is the entire semester. However, for students enrolled in modules (courses which are not scheduled for the entire semester or term), the payment period only includes those days for the module(s) in which the student is registered.*

*\*The percent **unearned** is equal to 100 percent minus the percent earned*

If a student stops attending all classes, does not officially withdraw, and fails to earn a passing grade in at least one course and/or has a 0.0 GPA for the term, the student may be considered an unofficial withdrawal. As a result, the

student may be required to repay all or some of those funds to its original source. The U.S. Department of Education requires institutions to closely monitor the attendance of students who receive federal financial aid. At the end of every semester, grade evaluations are completed to determine compliance with federal regulations. In accordance with federal regulations, the Texas A&M University-San Antonio must assume that students who do not receive a passing grade in any class attempted and/or receive incomplete grades have unofficially withdrawn from the university. This assumption requires Texas A&M University-San Antonio to formally document the student's last date of attendance and determine if the student is required to repay all or some of the federal financial aid.

Notification will be sent via mail and email outlining the amount returned to the federal and institutional program(s). The University will return funds on the student's behalf to the appropriate federal aid program(s) within 45 business days after determining the student's withdrawal date. The student is responsible for all charges and overpayments resulting from a Return of Title IV Calculation. The refund will be returned to the student only if the student did not receive financial aid assistance from either Title IV programs or State programs. In the cases where the student did receive assistance from these programs, the refund will be returned to the programs, in the following order:

*Order of Return of Title IV funds:*

- Unsubsidized Direct Loans (other than Direct PLUS Loans)
- Subsidized Direct Loan
- Direct PLUS Loans
- Federal Pell Grants for which a return of Title IV funds is required
- Federal Supplemental Educational Opportunity Grant (FSEOG) for which a return of Title IV funds is required
- Iraq and Afghanistan Service Grant, for which a return of Title IV funds is required

Please visit the following link for more information: [http://www.tamusa.edu/finaid/return\\_title\\_IV.html](http://www.tamusa.edu/finaid/return_title_IV.html)

### **SUMMER FINANCIAL AID**

Students who wish to receive aid in the summer must complete the Summer Intent to Enroll form. Students who are new to A&M-San Antonio for the summer term only need to complete the FAFSA.

Please note that the OSFA is required to review all students' aid history within the National Student Loan Data System (NSLDS) to determine summer financial aid eligibility. Students' eligibility will be based on any remaining Federal Pell Grant and Direct Loans. Students also may apply for private loans with their lender.

Typically, students must be enrolled **at least half-time** in summer to receive aid. Students who do not complete the Summer Intent to Enroll form will be packaged, although at a later date, to determine their Federal Pell Grant eligibility. If a student's enrollment falls **below 6 hours** in total for summer hours, the student may **not be** eligible for federal student loans and the Federal Pell Grant award may be revised or canceled. The student must contact the OSFA immediately, if their enrollment status changes, to determine their eligibility status for financial aid. It is recommended that students contact OSFA before making changes.

Summer financial aid is disbursed only after spring grades are posted and Satisfactory Academic Progress is reviewed for the spring semester.

## **SCHOLARSHIP INFORMATION**

At A&M-San Antonio, we recognize the importance of a quality education. We are dedicated to helping students find a way to achieve their higher education goals. In addition to awarding institutional scholarships, the Office of Student Financial Aid & Scholarships handles private scholarships. To ensure maximum consideration, it is imperative that students are knowledgeable of the specific requirements and deadlines associated with all scholarships awarded.

	<b>Fall 2019</b>	<b>Spring 2020</b>
<b>General Scholarship Priority Deadline</b>	January 15	October 1
<b>General Scholarship Deadline</b>	June 30	November 1

### **Basic Eligibility Criteria**

To be eligible for scholarships, students must meet the following requirements:

- Admitted to A&M-San Antonio
- Be a degree-seeking student.
- Complete the Free Application for Federal Student Aid (FAFSA) for need based scholarships at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). (International students are not eligible to apply for the FAFSA).
- Have submitted all paperwork requested from the Office of Scholarships and Financial Aid for need based scholarships.

### **Process of Applying for a Scholarship**

Students can apply for a variety of institutional scholarships through the A&M-San Antonio General Scholarship Application. One general application is applicable for a variety of scholarship opportunities. To submit the general application, a student must create an account with the online Scholarship Manager system and complete the online application. Supporting documents such as a letter of recommendation may be required. Each student will receive a confirmation email that his/her application was successfully submitted and an official scholarship notification letter with the final scholarship decision. Students should visit [www.tamsua.tamus.edu/scholarships](http://www.tamsua.tamus.edu/scholarships) for a complete list of scholarships available and scholarship criteria.

### **Important Scholarship Information**

The General Scholarship Application is valid for an entire academic year. An application submitted during fall would also be valid for spring awarding. Applicants will be considered for all the scholarships in which they meet the criteria.

Meeting the application requirements and scholarship criteria does not guarantee a scholarship award. Awards are determined by the availability of funds and committee review. Spelling, grammar, mechanics, and the overall completeness of the application will be considered during the selection process.

Incomplete applications will not be reviewed.

Federal regulations require that all financial resources are considered when determining each student's eligibility for financial aid. Receipt of a scholarship may result in an adjustment to financial aid awards and may reduce student loans or other tuition grants.

After the scholarship application has been submitted, changes are not permitted.

## **STUDENT EMPLOYMENT**

Students who want to supplement their educational resources may do so through on- or off-campus part-time employment.

### **Part-Time Student Employment**

Students may apply for consideration for on-campus employment by various University offices and departments. Student employment on a part-time basis by the University is generally limited to 19 hours per week. Students may learn of both off- and on-campus employment opportunities through the Mays Center or via Handshake, the online jobs database. Handshake is accessible through your JagWire account. Generally, to be eligible for student employment, a student must be enrolled in a minimum of six credit hours during the current semester; however, student employees need not be enrolled during the summer to maintain student employee status as long as they intend to enroll in the following fall term and enrolled in the previous spring term.

Student employees must be in good academic standing and maintain an academic record acceptable to the department head for the employing department, including a cumulative grade point average of no less than 2.0.

### **Federal Work Study**

The Federal Work Study Program helps eligible students defray the cost of post-secondary education. The Federal Work Study Program is a financial aid program designed to provide part-time employment opportunities with eligible on-campus and off-campus entities. Eligible students also have the opportunity to gain valuable experience while pursuing a college education. To qualify, a student must demonstrate financial need and in most cases must be enrolled at least half-time by October 1 of the fall semester. The amount of the award may vary based on the student's classification and grade level. Eligibility must be established each year:

- A student must be enrolled in an eligible program as a degree-seeking student.
- A student must meet all Title IV requirements.

While classes are in session, students may work up to a maximum of twenty hours per week. Offices typically require work-study students to dress business-casual. Some offices allow work-study students to dress more casually, so student must be sure to check with their supervisor. Students must remember that they are working in a professional setting and need to dress accordingly.

Work-study is awarded on a first-come, first-served basis to students with financial need (as determined by the student's FAFSA). Therefore, work-study funds are limited. Students may contact The Mays Center regarding regular wage positions both on and off campus. Many on-campus regular wage positions offer work opportunities in the same offices in which work-study students are employed.

Work study is awarded by semester. To earn work-study wages during a semester, a student must have been awarded the funds for that period and be working in a work-study position. The days within a semester in which a student can earn work-study wages will be published on the Texas A&M University-San Antonio Financial Aid website.

# STUDENT RESOURCES AND SERVICES

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## STUDENT LIFE

### **Campus Activities**

*Central Academic Building, Room 103 | (210)784-1329*

Campus Activities coordinates the majority of the co-curricular opportunities for our students. It serves as the hub for all Texas A&M University-San Antonio student organizations and provides many services/resources. The office is responsible for activities such as registering organizations and helping student groups with operational assistance. The office also coordinates campus-wide events. Participating in co-curricular involvement is essential to student success; Campus Activities strives to complete our students' education.

### **Dean of Students**

Senator Frank L. Madla Building, Room 312

The Dean of Students Office plays an important role in helping students navigate the campus environment by providing access to programs and services that support and enrich students' personal and educational development. The Dean of Students serves as an advocate for students on a wide range of topics and assist students in making positive connections with staff, faculty, fellow students, and university services. Students are encouraged to contact the Dean of Students if they have questions or concerns related, but not limited, to;

- Medical or Mental Health Withdrawals
- Behavioral Concerns and Crisis through the Behavioral Intervention Team
- Parenting and Pregnancy
- Facilitating accommodations with Title IX Coordinator for student impacted by sexual misconduct or assault
- Student Deaths.

### **Esperanza Hall**

*(210)784-1717*

Texas A&M University-San Antonio is excited to welcome and offer a brighter future for our students by providing on-campus accommodations. By requiring our first-year students to reside on campus, we hope to guide and support our freshmen in their first college experience.

At Esperanza Hall, conveniently located on campus and only minutes from class, we offer unique suite-style floor plans, community amenities that allow students plenty of privacy to hit the books, and the perfect space to socialize. Esperanza Hall is where students will live within a community that and supports their academic success and encourages community engagement. Be a Jaguar! Live the Jaguar Life!

### **Jaguar Family Programs**

Jaguar Family Programs coordinate programs and events for the family members of our Jaguar students including Family Orientation, Family First Seminar, Family Newsletters and Parent/Family volunteer opportunities. We recognize that family members play a vital role in a student's college success, and our office works to provide families with resources to aid their student throughout their student's college career.

### **Jaguar Student Media**

*Central Academic Building, Room 321B | (210) 784-1051*

Jaguar Student Media provides students experiential learning and hands-on opportunities in online news, a print magazine, radio and television. The campus' student-run media outlets include The Mesquite, an online campus

newspaper; El Espejo, an annual general interest magazine; and the Univision Media Lab which offers bilingual students opportunities to study radio, television, sales and promotions at Univision's San Antonio affiliate. Students are encouraged to participate in student-run media to develop skills, build resumes, explore career options and enhance their college experience. For more information, email [jenny.moore@tamusa.edu](mailto:jenny.moore@tamusa.edu) or call Jaguar Student Media at 210-784-1051.

### **Recreational Sports**

*Central Academic Building, Suite 103 | (210) 784-1346 or (210) 784-1348*

The Department of Recreational Sports provides an inclusive environment for the campus community that encourages the lifelong pursuit of healthy living and learning. Our facilities and programs offer an outlet that accentuates the educational core of the university, while enhancing the capacity for intellectual and emotional wellness.

Recreational Sports is responsible for providing various recreational activities in an informal and structured environment. Students are also able to participate in organized activities such as Intramural Sports and Sport Clubs. Intramural sports are conducted in the Jaguar Game Room, the Multipurpose Fields and Kinesiology Pavilion on campus.

Sport clubs are organized sporting events between A&M-SA students and students from other universities and colleges. The competition is at a non-varsity level and students are responsible for organizing and governing of their respective teams.

Recreational Sports offers activities in the following locations on campus:

The Jaguar Fitness Center

Senator Frank L. Madla Building, Room 128  
(210) 784-1360

The Game Room and Lounge

Central Academic Building, Room 105  
(210) 784-1389

### **Student Government Association**

The Student Government Association (SGA) is the highest governing body for students at Texas A&M University-San Antonio. It plays an active role in campus affairs and makes recommendations to the University administration for improving student life.

Meetings are held bi-weekly and are open to the public. The student body elects the president, vice-president and the senators during a general student election held each spring and fall.

### **Student Transition and Family Programs**

*Patriots' Casa, Suite 104 | (210)784-1452 | <http://www.tamusa.edu/nso>*

The Student Transition and Family Engagement department at Texas A&M University-San Antonio is designed to provide incoming students, and their families, with shared experiences and intentional connections that create community, promote Jaguar pride, set the tone for student academic success, and support students to develop skills to navigate college life.

We do this by,

- Introducing and connecting students to campus resources and services;
- Developing a sense of belonging among the university community, and;

- Providing experiential learning opportunities to support the holistic development and transition to college life.

## **STUDENT SERVICES**

### **Disability Support Services**

*Central Academic Building, Suite 210 | (210)784-1335 | [dss@tamusa.edu](mailto:dss@tamusa.edu)*

Disability Support Services (DSS) provides innovative services that empower and inspire student learning, development, and independence by facilitating equal access through reasonable and appropriate accommodations for students with disabilities. DSS collaborates with the diverse A&M-San Antonio campus community to offer guidance, support, and advocacy promoting equity for all.

DSS is committed to ensuring equal access, full participation, and reasonable accommodations by coordinating services that meet the unique educational needs of enrolled students with documented disabilities. DSS provides intake and case management services to students and will review all documentation to determine eligibility and accommodations. DSS works collaboratively with students as they actively participate in their academic pursuits. For additional information about DSS, visit our webpage at <http://www.tamusa.edu/Disability-Support-Services/index.html>.

### **Texas A&M-San Antonio Identification Card**

*Main Campus, Madla Building, Room 111 | (210)784-1300 | <http://www.tamusa.edu/welcomecenter/index.html>*

Texas A&M University-San Antonio requires an identification card (ID) for faculty, staff, and students. The A&M-SA card must be presented upon request. All ID cards are issued at the Welcome Center Office. Students use the card to access student services, printing, and Jaguar Cash. All questions concerning the ID card should be referred to the Welcome Center Office. Additional information about the Jaguar Card is available here: <http://www.tamusa.edu/businessaffairs/jaguarcard.html>.

### **Information Technology Services (ITS)**

*Central Academic Building, Suite 233 | (210)784-4357*

Information Technology Services (ITS) provides a wide variety of technology services to Texas A&M University San Antonio. The services include but are not limited to the computing and technology needs of the University. ITS maintains the technical resources used by students, faculty, and staff for a wide variety of teaching, learning, and research needs. Services such as open access labs, university email and file storage, wireless internet access, technology-enabled classrooms and conference room spaces are all centrally supported by the ITS department. The department is also responsible for supporting software licensing and applications such as the learning management system (LMS) which is used for face-to-face, online, hyflex, and/or hybrid instruction, and the student information system (SIS) that allows for student registration and fee payments.

Located in the Central Academic Building, Suite 233, ITS staff members stand ready to provide in-person service and support to students, faculty, and staff. The ITS Helpdesk can also be contacted by phone at 210-784-HELP (4357) or via email at [helpdesk@tamusa.edu](mailto:helpdesk@tamusa.edu).

ITS also provides several user self-service options including submission of service requests, password resets, and remote assistance. These resources, ITS Helpdesk office hours, and other helpful information are available through the ITS website at <http://www.tamusa.edu/its>.

### **Office of Student Rights and Responsibilities**

*Senator Frank L. Madla Building, Suite 311 | (210) 784-1353 | <http://bit.ly/TAMUSASStudentRR>*

The Office of Student Rights and Responsibilities (OSRR) promotes a campus environment of student success that balances student rights and responsibilities through a fair and objective due process, while upholding the highest academic and behavioral standards articulated in the Student Code of Conduct.

The main role of the office is to oversee the student conduct process, educate the community on the Student Code of Conduct, and be an advocate for students who may have questions regarding community standards. Staff members in the Office of Student Rights & Responsibilities strive to promote a campus climate of integrity, service, commitment and excellence by focusing on promoting a holistic approach to student rights and responsibilities.

If a report needs to be filed regarding a concern of behavioral or sexual misconduct, the formal process is to file report online at <http://bit.ly/FileAReport> or email OSRR at [StudentRR@tamusa.edu](mailto:StudentRR@tamusa.edu).

### **Student Counseling & Wellness Services**

Modular C, Room 166 | (210)784-1331 | [stucounseling@tamusa.edu](mailto:stucounseling@tamusa.edu) | [www.tamusa.edu/studentcounseling](http://www.tamusa.edu/studentcounseling)

The Office of Student Counseling & Wellness Services (SC&WS) provides short-term individual, couples, and group therapy, crisis intervention, consultation, case management, and prevention services. These services can help facilitate students' academic and life goals as well as enhance their personal growth and well-being. Our staff of licensed mental health professionals work with students to identify treatment goals and effective strategies to cope with difficult situations. All mental health services provided by the Office of Student Counseling & Wellness Services (SC&WS) are free, confidential (as the law allows), and are not part of a student's academic or university record.

All enrolled A&M-SA students are eligible to receive an intake appointment to assess their needs. The intake is used to make treatment recommendations based on individual symptoms, severity, appropriateness of services, and availability of resources. At the conclusion of the intake appointment, the licensed provider will render a clinical recommendation based on services that are best suited to meet individual needs.

### **Testing Center**

*Central Academic Building, Suite 209 | (210)784-1366*

The Testing Center is a service for all A&M-SA students as well as the surrounding community. The Testing Center offers a wide range of examinations including proctored exam services, credit by examination, placement testing, and entrance exams. TSI Counseling is offered through the Testing Center for scores, exemptions, TSI agreement, and enrollment at the University. We facilitate students' educational, personal, social, and cultural development in order to promote their success and persistence in the university. The services provided by the Testing Center are based on the guidelines developed by the National College of Testing Association's Professional Standards and Guidelines.

## **ACADEMIC RESOURCES**

### **Undergraduate Academic Advising**

*Student Success Center, Modular C | (210) 784-1307*

Your academic advisor is here to help you develop an educational plan that supports your academic, personal, and career interests, while ensuring that you meet graduation requirements. Academic advisors help students make decisions by drawing upon their own educational experiences and their understanding of the curricula and academic policies of Texas A&M University-San Antonio.

Academic advisors are professional staff members. As each academic program has unique requirements, a student's assigned academic advisor is based on their major or, in the case of first-year college students, on their classification.

As the title of the role suggests, your advisor works with you in an advisory capacity. The decisions you make are yours and yours to own. Your advisor might suggest you to take one course of action over another, but in the end, your advisor honors your agency and your ability to make your own decisions.

We expect you to use DegreeWorks to track your progress toward graduation, and we strongly encourage you to meet with your academic advisor each semester, prior to the registration period for the upcoming semester. Ultimately, you are responsible for your final choices, and for ensuring that you fulfill the university degree requirements and the requirements of your major.

For information or to schedule an appointment with an undergraduate academic advisor, please call (210)784-1307, or visit the undergraduate academic advising website at: <http://www.tamusa.edu/advising/academicadvising.html>. Appointments can also be scheduled via the EAB-Navigate link in JagWire.

### **First-Year Experience**

*Patriots' Casa, Room 204 | (210)784-1435*

#### ***Jaguar Tracks***

Jaguar Tracks are one-hour, for-credit courses, that students complete during their first semester of enrollment, and then during each semester as they transition to sophomore, junior, and senior standing. Students admitted as transfer students will be required to begin the Jaguar Tracks sequence with the course that corresponds to their classification at the time of admission.

For example, a transfer student admitted as a junior (having at least 60, but fewer than 90 credits) will complete Jaguar Tracks III and Jaguar Tracks IV, as they correspond to their academic department. As another example, students having earned fewer than 30 semester credit hours at the time of admission, will complete all four Jaguar Tracks courses. If a student does not need to take all four Jaguar Tracks courses the student, in consultation with her/his academic advisor, must complete elective credits to make up the difference needed for attaining the number of credits required for completing the degree.

The focus of each course will be geared around the theme designated for the specific track the student is taking with an overarching goal of student academic success and retention. Courses will focus on areas such as, but not limited to, discovering the students' place on campus, discovering globalization and diversity, developing a global perspective, becoming active members of the broader community within their discipline, and discovering students' place in a professional field. Students will interact with faculty, staff, and fellow jaguars during their time in the course.

#### ***Common Experience***

The Common Experience at Texas A&M University-San Antonio is a yearlong initiative designed to cultivate a common intellectual conversation on a theme and facilitate increased interactions among faculty, staff, and students. It is designed to become a great tradition that will provide participants an opportunity to deconstruct and explore a common subject through multidisciplinary lenses and apply academic thought towards finding meaningful solutions to discovered challenges. Throughout the year, various events and programs will provide opportunities for engagement for the entire university community and beyond.

Students, faculty and staff have the opportunity every spring semester to nominate a Common Read to be consider for the following year.

#### ***Peer Mentoring (Peers Assisting with Success)***

Peer Leaders promote student engagement and foster an inclusive environment for students to find their sense of belonging to thrive on campus. Peer leaders are upperclassmen at A&M-SA who are passionate about working with a diverse group of students and committed to these students' learning and development. They are high-achieving students and serve as a positive role model for students and assist them in navigating the academic,

social, and personal challenges during their college journey. Mentees can expect to meet one-on-one or in small groups with their peer leader, attend on-campus activities and social events together.

### ***Learning Communities***

Learning Communities (LCs) will strive to create a culture of learning to improve student success and to increase overall retention during the first year of the undergraduate experience. Students will have the opportunity to opt-into a year-long learning community during registration at new student orientation. Cohorts of 20 students will be enrolled in same 2 courses during the fall and spring semester. These linked courses will have a direct connection and shared assignments to encourage students to collaborate and master material by working together. The fundamental purpose of LCs at A&M San Antonio will be to develop cohort identity, to establish a culture of learning and to create a sense of belonging to the university.

### ***Faculty Mentoring***

The faculty advising program will offer students the opportunity to be paired with a faculty member on campus during their first-year of college. Participants in this program can expect an opportunity to have multiple interactions with their faculty mentors through various events, one-on-one meetings and social gatherings. Faculty mentoring provides students the opportunity to build relationships with a professor on campus who can offer insight and first-hand perspective as they navigate college life at A&M San Antonio.

### **ACADEMIC LEARNING CENTER**

*Modular C, Room 140 | (210)784-1332*

All currently enrolled students at Texas A&M University-San Antonio can utilize the Academic Learning Center for subject-area tutoring. The Academic Learning Center is an appointment based center where appointments are made through the Navigate platform. Students access Navigate through Jagwire in the Student Services tab. The Academic Learning Center offers various workshops and events on campus, as well as classroom presentations. Supplemental Instruction for certain BIOL 1306 and 1307 is offered through the Academic Learning Center and sessions occur every week. The Center is active on campus outreaching to students to highlight services offered.

### **STUDENT SUCCESS CENTER**

*Student Success Center, Modular C | (210)784-1307*

The Student Success Center takes a developmental/proactive approach to help students complete their academic goals from orientation through graduation. The Center offers academic and skills workshops, one-on-one appointments, and online resources to help retention efforts at Texas A&M University-San Antonio. The goal of the Center is to help students discover, self-reflect, and become independent learners. The Success Center houses the Academic Success Coaches, the Testing Center, and the Academic Learning Center. Academic Success Coaches are assigned to certain incoming first time in college students as well as students on academic probation. However, all students are encouraged to meet with an Academic Success Coach for assistance in navigating the University, to receive student resources, and help with the transitions from high school to college and/or from community college to the University. . Academic Success Coaches partner with other offices on campus as well as faculty to ensure students are connected to the resources that are available on campus and in the community.

### ***PAS (Pathways to Academic Success)***

Students whose academic standing is scholastic probation will participate in the PAS program until they earn an institutional GPA of 2.0 or higher. Academic Dismissal students will also participate as a requirement for re-admission to the University. Students in this program will be required to attend a probation orientation and meet with their Academic Success Coach, attend G.R.O.W.L. Series, online Blackboard assignments, and/or study halls. The Academic Success Coach and student will complete paperwork and create a plan of action to help the student be successful in that semester. Students participating in the PAS program have a hold on their account which will prevent registration for the following term. Completion of the program will result in a future-dating of that hold.

Once the student earns an institutional GPA of 2.0 or higher, the student will be complete with the program and the hold will be removed.

### ***Graduation Pledge Program***

First-time students with no college credit are eligible to join the Graduation Pledge program at Texas A&M University-San Antonio. Students will be sent a request via their Jaguar email to opt into the program within the first weeks of the fall semester. Students will be asked to abide by GPA requirements, meet with their academic success coach and academic advisor, and earn at least 30 A&M-SA credit hours per year to stay enrolled in the program. In conjunction with these requirements, the student pledges to graduate in 4 years or less. For more information about the program, contact the offices of Advising and Student Success at 210-784-1307.

### ***G.R.O.W.L Workshop Series (Gaining Resources and Opportunities While Learning Workshop Series)***

The Student Success Center offers a series of sessions for all A&M-SA students to participate in. These sessions use the Wellness Wheel as the framework for the series. The Center takes a holistic approach with the G.R.O.W.L. Series touching on aspects of the Wellness Wheel from emotional intelligence, academic skills, healthy eating, and physical wellness. The Series supports students' growth at any point in their development in college. Sessions are offered in person.

### ***Navigate***

Navigate is a web-based tool to help connect students to campus resources in order to sustain retention and degree attainment. Students can utilize Navigate to schedule appointments with advisors, academic success coaches, and tutors. Students can also communicate via Navigate with faculty, advisors, and academic success coaches using the messaging application. An early alert system is incorporated into Navigate which faculty members can use to connect students with resources in the Student Success Center. Faculty may also submit progress reports to the Student Success Center in regards to student performance in a class. An early alert and progress report will result in contact from an Academic Success Coach to assist students in being successful at the University. Students can access Navigate through Jagwire in the Student Services tab.

### ***Other Services***

The Student Success Center offers other services such as supporting students who earned the Dream.US scholarship, former foster youth, and the DREAM peer mentoring program. Each of these services supports student persistence and retention at Texas A&M University-San Antonio. For more information on these services, please contact the Student Success Center at [Student.Success@tamusa.edu](mailto:Student.Success@tamusa.edu).

### ***University Library***

*Central Academic Building, Room 202 | (210) 784-1500 | <http://www.tamusa.edu/library>*

The Texas A&M University-San Antonio University Library's mission states: The University Library at Texas A&M University-San Antonio fosters collaboration among faculty, staff, and students to create an atmosphere of academic excellence and provides the university community with tools for lifelong learning. The library is actively engaged in the teaching, research, and outreach activities of A&M-SA. Library staff promote an inclusive culture through our services, resources, and support.

### ***Research assistance and instruction***

The University Library's professional librarians and staff provide one-on-one research assistance all hours that the library is open, in-person, by phone, via text, e-mail, and live, online chat. Working with faculty, the librarians also provide course-specific instruction to aid students in successfully completing course assignments involving research. Online tutorials and subject-specific online guides to resources are available on the library's website and through Blackboard in the STAR course (Student Technology and Academic Resources). All students are automatically enrolled in this course.

### ***Information resources***

The University Library provides a wide variety of information resources for students, faculty, and staff. Online resources, such as databases, electronic journals, e-books, and other information sources are available on campus and most are also available for off-campus use by university affiliated individuals. The library is e-preferred, meaning that librarians select materials in an electronic format whenever possible in order to provide access from any computer any time. The onsite print and media collection consists of materials that directly relate to A&M-SA academic programs, course reserves, and K-12 curriculum support materials. Books, journal articles, and other items may be requested from area libraries using a TexShare card, or requested online through ILLiad, the interlibrary loan service. For more information on the TexShare card, ask at the information desk.

### ***Library facilities***

The University Library offers open access to computers, printers, print and media collections, and study space for all students, faculty, staff, and the general public. Hours are posted on the University Library's website. The library has study rooms available for individual or group use by students on a first-come, first-serve basis that are equipped with display panels for laptop connection and white boards. Several of the rooms can be reserved in advance from the library's home page. One of the study rooms is a family study room for use by students with children. There is also a makerspace room where students can use tools and supplies to create posters and other creative projects for their classes. The library also offers laminating services for students, staff and faculty. The library circulates headphones, laptop computers, and video cameras to students.

### ***Archives & Special Collections***

*Bexar County Archives Building | 126 E. Nueva | San Antonio, TX 78204 | (210) 784-1512 | <https://libguides.tamusa.edu/archives>*

Located downtown, the University Library's Archives & Special Collections provides access to historical treasures, such as Texas history resources dating back to 1517. Materials housed here include manuscript collections, photographs, maps, artwork, books, newspapers and more. Staff provide one-on-one research guidance to students, faculty, staff, and the general public by appointment. In addition, the Presidio Gallery showcases themed history exhibits, which are free and open to the public.

## **OTHER SERVICES**

### **University Access**

*Central Academic Building, Room 211 | (210) 784-1426 | [university.access@tamusa.edu](mailto:university.access@tamusa.edu) | <http://www.tamusa.edu/Department-of-University-Access>*

The Department of University access aims to increase matriculation, retention, and degree completion of early access and transfer students, through the creation of sustainable partnerships. University Access expands college access to high school students and promotes seamless transfer through innovative programming that is designed to engage, challenge, and support students throughout their academic journey. University Access provides student support through pathway development, scholarship opportunities, and individualized academic advising and coaching.

### ***Early College High School***

Early college high schools are innovative high schools that give students in grades nine to 12 the opportunity to earn up to 60 hours of college credit, all at no cost to their families. Through this program, high school students can take courses at the A&M-SA campus with university faculty and have access to campus support services. To be eligible to participate, students must attend a partnering high school and be recommended by the high school counselor. Currently, the university partners with Southwest Prep-Northwest Campus to offer the early college program.

### ***Transfer Partnerships***

Transfer partnerships allow students to take the maximum number of courses possible before transferring with all college-level courses earned counting towards their intended major. Current transfer partners include: Alamo Colleges, Blinn College, Coastal Bend College, Collin College, Laredo College, and Southwest Texas Junior College. To follow one of these pathways, students must contact their advisor at the community college.

### ***The Greater Texas Foundation Program***

Through a grant received from the Greater Texas Foundation in 2017, A&M-SA can advance its mission by offering up to 40 annual scholarships to select Texas ECHS graduates admitted to the University over the course of eight years. To be eligible, students must be graduating from a Designated early college high school in Texas, have at least a 2.5 college grade point average, have earned at least 30 college credit hours, demonstrate financial need, and plan to enroll at A&M-SA as a full-time student. The scholarship is renewable for up to three years to those students who continue to meet the award requirements.

### **May Center for Experiential Learning and Community Engagement**

*Science and Technology Building, First Floor | (210)784-1356 | mays@tamusa.edu | <http://www.tamusa.edu/mays>*

The Mays Center for Experiential Learning and Community Engagement (Mays Center) provides enhanced learning opportunities and access to resources and relationships in order to develop students into career-ready and community-minded graduates. Programs and services provided by the Mays Center include:

#### ***Career Services***

Career Services works directly with students, faculty, staff, and other leaders on campus to assess students' unique needs and to plan innovative and creative strategies to offer 'best practice' services and programs to current Jaguars and Alumni. This area also works with many employers from various industries and from all across the nation who are interested in recruiting college-level talent. The intention is to be a connection point for both students and for employers. Career Services provides individual and group career advisement, professional correspondence services (resume building, cover letter writing, and application troubleshooting), career-driven workshops, career fairs, on-campus interview opportunities, and the interpretation of career assessments.

#### ***Career Clothes Closet***

The Career Clothes Closet is a resource for current students who are in need of a professional outfit, whether they are attending a career fair, job interview, or other professional event. As a student, one may come in the closet and pick out one outfit to keep. We do carry the following items: suits, shirts, pants, skirts, jackets, and ties. This closet is available year round, and we work to accommodate our students and their needs to make a strong professional impression.

#### ***Civic Engagement***

Civic Engagement is working to make a difference in the civic life of our communities and developing the combination of knowledge, skills, values, and motivation to make that difference. The Mays Center supports students through educational programming that encourages community engagement.

#### ***Community Service***

Community Service is one of the avenues where students can gain experience in their major or an area of interest. The Mays Center staff assists student organizations as well as individual students to coordinate community service opportunities. Students are encouraged to document all civic engagement, community service, and service-learning hours in GivePulse, an online system accessible via JagWire.

#### ***Experience Transcript***

The A&M-SA Experience Transcript is a reflection of a student's involvement in learning experiences developing their marketable skills. Experiences recorded on the transcript will be listed under one of eight categories,

including leadership experiences, internships, service, and other key areas. Students are able to request a copy of their own personal Experience Transcript via JagSync.

### ***Externships***

Similar to job shadowing, externships are short term experiences in a professional working environment that provide students with practical experiences in their field of study. The Mays Center coordinates several externship opportunities each year, across a variety of disciplines.

### ***General's Store***

General's Store is an on-campus food pantry that serves members of the university community that are experiencing food insecurity. The General's Store also provides community service and experiential learning opportunities for students. For more information, email [foodpantry@tamusa.edu](mailto:foodpantry@tamusa.edu) or visit <http://www.tamusa.edu/mays/generals-store>.

### ***HIRED! Student Employee Professional Development Program***

The HIRED! program is an engaging professional development series for current A&M-SA student employees. The ultimate goal of this program is assisting students to enhance skills and become more career-ready throughout the year. These trainings are conducted to enhance their skill sets, knowledge base, and leadership potential so they can excel in their current positions as well as within their future career! All on-campus student employees are eligible to join the HIRED! program.

### ***Internships***

Internships are a form of experiential learning that integrate knowledge and theory learned in the classroom with practical application and skills developed in a professional setting; typically internships are for a semester period or longer. Students are also encouraged to search for internship opportunities in Handshake, our online jobs portal.

### ***Service-Learning***

Service-Learning is a teaching and learning strategy that integrates meaningful community service with instruction and reflection to enrich the learning experience, teach civic responsibility, and strengthen communities through volunteer service. Many courses at A&M-SA have a service-learning component supported by the Mays Center.

### ***Military Affairs***

Patriots' Casa, Room 202 | (210)784-1397

Courses at Texas A&M University-San Antonio are approved for military community training and benefits, and all students using these benefits (Federal and State) must be degree seeking. Please note that non-degree seeking, certificate programs, do not currently for veterans' education benefits. The Office of Military Affairs, located on the 2nd Floor of the Patriots' Casa suite 202, assists military community students with matters relating to their education benefits.

We ask all those that are serving and those who have served to visit the Office of Military Affairs and if applicable, bring a copy of your DD214. This will allow us to serve you better, by providing you information concerning priority registration, events notifications, and the Patriot Cord Ceremony to name a few.

The following programs are approved for students who wish to further their education: Chapter 33 Post 9/11 GI Bill®; Chapter 30 Montgomery G.I. Bill® Active Duty; Chapter 1606 Montgomery G.I. Bill® Selected Reserve; Chapter 35 Dependents Educational Assistance (DEA); and Chapter 31 Vocational Rehabilitation. General and detailed descriptions of each program are online at <http://www.benefits.va.gov/gibill/>.

Any student who feels he/she may be eligible for education benefits should review application guidelines on the Office of Military Affairs web page located at <http://www.tamusa.edu/militaryaffairs>. The completed application will be electronically submitted to the Veterans Affairs Regional Office (VARO) in Muskogee, OK through Vets.gov. The VARO will make the official decision to grant or deny benefits.

Students are encouraged to apply for GI-Bill®/Hazelwood benefits as early as possible; as they are processed in the order they are received. Students receiving Federal/State education benefits will be required to comply with the university's deadlines for registering and paying for their courses.

New students entering the university (who intend to request benefits) must stop by the Office of Military Affairs to complete an application and obtain needed information relative to their enrollment and certification. Students must provide all necessary documents, which include but are not limited to: copy of the DD Form 214 (Member 4 copy), Certificate of Eligibility (less than 12 months old), official copy of military transcript and a copy of the degree works in order to process the request for their benefits. Incomplete applications will not be accepted and will result in a delay of benefits.

Transfer students must provide the Office of Admissions with copies of transcripts from all colleges attended. All Military/Veterans should have their military credit evaluated during the admission process, and are encouraged to process their Joint Service Transcript through the College Credit for Heroes program. For more information please contact our office.

Veterans should have military credit evaluated at the close of the first semester or upon the successful completion of 12 semester hours and furnish the Office of Military Affairs with a copy of their updated degree works. Also, any transfer credit from prior educational institutions needs to be evaluated before the close of the first semester and a copy of an updated degree works furnished to the Office of Military Affairs.

All active duty personnel receiving tuition assistance (TA) must process their paperwork through the Office of Military Affairs. Individuals must apply through their service portals for approval prior to visiting our office.

#### ***Standards of Progress for Veterans***

A student receiving full or partial Hazelwood benefits must maintain a cumulative 2.0 grade point average (GPA) for undergraduate and 3.0 GPA for graduate students. Students who wish to receive military/veterans' education benefits and who transferred from another institution without the required GPA must come to the Office of Military Affairs before registering for classes to determine whether or not they are eligible for certification (benefits). The scholastic status of a student receiving benefits can be changed by attending summer semester and meeting the same standards that apply in the fall/spring semester.

#### ***Veterans Semester Hour Classification***

The VARO uses the semester hour classification scale below for undergraduates to determine a veteran's payment. The number of semester hours enrolled at this university will be reported to the VARO.

Full or part-time undergraduate status for fall/spring semesters (16 week) is determined by the following:

- 12 credit hours is full-time
- 9-11 credit hours is 3/4 time
- 6-8 credit hours is 1/2 time
- 4-5 credit hours is less than 1/2 time
- 1-3 credit hours is 1/4-time or less (constitutes tuition and fees only)

Full or part-time status for graduate students in the fall/spring semesters is determined by the following:

- 9 credit hours is full-time
- 6-8 credit hours is 1/2-time
- 5 credit hours or less is less than 1/2 time

For summer and short terms enrollment requirements please contact our office. For students using Chapter 33 the rate of pursuit is used to determine a student's payment not the above scales.

### ***Hazlewood Waiver***

In order to qualify for tuition and partial fee exemption through the Texas Education Code 54.203 (known as the Hazelwood Act), a person must meet all program requirements. Contact the Office of Military Affairs or visit the Texas Veterans Commission website at <http://www.tvc.texas.gov/Hazlewood-Act.aspx> for more information. Additionally, individuals using a percentage from Chapter 33 may also use Hazlewood. Please note that the use of Hazlewood must be reported to Financial Aid.

### ***Military Community Academic Advisor***

In order to serve you better, Academic Advisors are located in the Office of Military Affairs for our military community students who are classified as sophomores through seniors.

### **Office of International Affairs**

*Senator Frank L. Madla Building, Suite 125 | (210)784-1309*

The Office of International Affairs' (OIA) mission is to enrich and foster the educational and work experience of Texas A&M University-San Antonio's (A&M-SA) international community. The OIA serves as a welcoming presence for A&M-SA's international students, and international faculty. The OIA is the institutional resource that facilitates and oversees the lawful immigration status of foreign nationals and non-U.S. citizens who seek to enter the U.S to receive an education, or to work at A&M-SA while protecting the integrity of the institution through compliance with state, local, and federal regulations. You may reach us at [Internationalaffairs@tamusa.edu](mailto:Internationalaffairs@tamusa.edu)

Services and programs offered include:

- International Students
- International admissions and immigration advising to international students
- Study Abroad International Travel
- International Student Insurance
- Provide information, resources, and support for DREAMERs
- Coordinate educational and cultural programs that foster global awareness

International Faculty

- Process visa applications, and permanent residency applications sponsored by the institution
- Act as a liaison among institutional departments and government agencies

### **Office of University Compliance**

*Modular Building 109A | (210)784-2003*

Texas A&M University-San Antonio strives for excellence. The Office of University Compliance contributes to this mission by fostering a culture of ethical conduct and integrity in all areas of operation. The Office promotes communication across the University's many divisions and departments, provides education, training, and resources to the University community, and facilitates compliance with the many laws, regulations, and policies that apply to institutions of higher education in the State of Texas. University Compliance is responsible for, among other things, developing and maintaining University-wide rules and procedures, receiving and investigating civil rights and ethics complaints, and responding to requests for public information.

To help the University adhere to the highest ethical standards, the Texas A&M University System established the [Risk, Fraud, & Misconduct Hotline](#). The hotline is a telephone and web-based reporting system that provides a way to anonymously report suspected fraud, waste and abuse.

If you believe fraudulent, wasteful or abusive activities involving any A&M System member, employee, student, or other affiliate are occurring, Texas A&M University-San Antonio wants you to report it. Examples of reportable issues include fraud, theft, or misuse of A&M System resources or information; violations of safety rules or

environmental laws; conflicts of interest; and inappropriate conduct, harassment or discrimination. Reports for Texas A&M University-San Antonio can be filed online at <https://secure.ethicspoint.com/domain/media/en/gui/25201/index.html>, or by phone at 1-888-501-3850. The hotline is independently operated and available 24 hours a day, 7 days a week.

### ***“Do The Right Thing”***

The Texas A&M University System is dedicated to adhering to the highest ethical standards and principles. If you have factual information suggestive of fraudulent, wasteful or abusive activities, we want you to report it. Examples of reportable issues include fraud; misuse of resources or information; violations of safety rules; inappropriate conduct, harassment or discrimination.

We encourage you to report such issues through the Risk, Fraud & Misconduct Hotline, a telephone and web-based reporting system. 1-888-501-3850 or select “file a report” at the top of the page at [www.ethicspoint.com](http://www.ethicspoint.com). The hotline is independently operated and available 24 hours a day, 7 days a week. Reports can be submitted anonymously, and will be forwarded to the appropriate institution or agency official for action.

### **Title IX**

*Modular Building 109A | (210) 784-2061 (for Information & Complaints)*

*Senator Frank L. Madla Building Madla, Room 311B | (210) 784-1371 (for Pregnancy & Parenting Students)*

Title IX of the Education Amendments of 1972 is a federal civil rights law that prohibits discrimination on the basis of sex in any educational programs and activities at institutions that receive federal financial assistance. Title IX ensures program equity and precludes sexual harassment, sexual violence, sexual assault, and discrimination based on pregnancy and parental status.

Texas A&M University-San Antonio is committed to providing an education and workplace free from discrimination and harassment based on sex. Any member of the campus community or public who witnesses, is subjected to, or informed about incidents of sex discrimination, including sexual harassment, and/or related retaliation involving faculty, staff, or students should contact the University’s Title IX Office. Texas A&M University-San Antonio promptly and thoroughly investigates complaints of sex discrimination and/or related retaliation in accordance with applicable federal and state laws, Texas A&M System Policy 08.01, Texas A&M System Regulation 08.01.01, and University rules and/or procedures.

For more information about Title IX, confidentiality and/or reporting options, please contact the University’s Title IX Office. You may also visit [www.tamusa.edu/titleix](http://www.tamusa.edu/titleix) or view the Student Handbook. For information specific to pregnancy and parenting, please contact the Dean of Students.

Additional campus resources include:

- Student Counseling & Wellness Services: (210) 784-1331
- A&M-SA Police Department: (210) 784-1900
- The Rape Crisis Center 24/7 Hotline: (210) 349-7273A&M-SA Police Department: (210)784-1900

### **University Police Department**

*Senator Frank L. Madla Building Madla, Room 120B | (210)784-1900*

The University Police Department is committed to providing proactive, progressive, and professional law enforcement services to the students, staff, faculty and guests of the University 24 hours a day, 7 days a week. The University Police Department also is charged with protecting University property, preserving the peace and maintaining civil order on campus while enforcing all federal, state and local laws as well as university rules and regulations. The University Police Department also provides law enforcement and security services for all buildings on the main campus. Call the University Police Department to report crimes or request assistance. In case of

emergency on campus call 911 from any campus phone or call (210)784-1911 from any outside phone. Non-emergency calls and calls for assistance should be directed to extension 1900 or (210)784-1900.

Types of assistance provided include:

- Air for flat tires
- Escorting persons to cars at any time when safety is a concern within campus boundaries
- Unlocking vehicles when keys are locked inside
- Patrol bys when working/studying late
- Afterhours access to buildings
- Managing campus Lost and Found
- Providing “boosts” for dead vehicle batteries
- Publishing crime statistics
- Providing a Daily Crime Log
- Issuing Timely Warnings and Emergency Notifications
- Provide RAD (Rape Aggression Defense System) training
- Provide CRASE (Civilian Response to Active Shooter Events)
- Provide Safety Begins with You to faculty, staff and students.
- Domestic violence, dating violence, sexual assault, and stalking awareness and prevention
- Bystander Intervention
- Investigate crimes and forward cleared cases to Bexar County District Attorney’s Office for prosecution.
- Conduct threat assessments
- Respond to unusual situations such as natural and man-made disasters
- Liaison with and coordinate law enforcement response with local, state, and federal agencies
- Crime prevention presentations, tables, events and security surveys

The University Police Department is the agency responsible for law enforcement, security, and emergency response on the campus. A system of card-reader-controlled doors, emergency telephones and intercoms, exterior lighting, a closed-circuit television monitoring system, late-entry doors for access to campus buildings, and police patrols are all part of the campus security program. Security awareness and crime prevention programs are provided to inform students and staff of security measures and devices in place, as well as services available through the University Police Department. This information is being provided as part of Texas A&M University –San Antonio’s commitment to security and personal safety on its campuses. This document serves as the University

Police statement required for compliance with The Student Right-To-Know Act and Crime Awareness and Campus Security Act of 1990. A copy of the latest Annual Security and Fire Safety Report and can be found at <http://www.tamusa.edu/uploadFile/folders/fcestrad/Pdf/Pdf-635834334159812616-10.100.150.124.pdf>.

#### Personal Safety and Crime Prevention

- Don't dismiss suspicious people or situations.
- If a person is acting suspiciously in the area, call the University Police.
- Don't be in harm's way; avoid dangerous situations.
- Be aware of your surroundings.
- Jogging or bicycling should be done during daylight hours, if at all possible.
- Do not wear headsets when walking or bicycling; they prevent the wearers from hearing their surroundings.
- Always jog facing traffic; this allows easy viewing of persons or vehicles as they approach.
- Avoid out-of-the-way places.
- Check the interior of a vehicle before entering.
- Lock all doors (office, lab, and car).
- Keep valuables out of sight (in the office, lab, and car).
- Report all crimes and suspicious acts to the police.
- Use common sense – don't become a victim: be a good witness.
- ***Prevention is the best protection against crime!***

#### Law Enforcement Authority and Interagency Relationships

The Texas A&M University – San Antonio police officers are licensed, as are all other police officers of this state, by the Texas Commission on Law Enforcement Officers Standards and Education upon meeting the required minimum standards and completing the basic police officers training course consisting of at least 728 hours of required basic training. Additional proficiency training is provided each officer annually. Officers patrol the campuses on foot, on bicycle, and by vehicle 24 hours a day, 7 days a week, enforcing University rules and regulations and State laws. The University Police Department maintains a close working relationship with the San Antonio Police Department, Bexar County Sheriff's Office, state and federal law enforcement agencies, and all appropriate elements of the criminal justice system. Regular meetings are held both on a formal and an informal basis. Crime-related reports and statistics are routinely exchanged.

#### False Alarms or Reports

Pursuant to HB 1284 this serves as notice to all enrolled students of Texas Penal Code Sec. 42.06 – False Alarm or Report which states:

- a) *A person commits an offense if he knowingly initiates, communicates or circulates a report of a present, past, or future bombing, fire, offense, or other emergency that he knows is false or baseless and that would ordinarily:*

- 1) *cause action by an official or volunteer agency organized to deal with emergencies;*
  - 2) *place a person in fear of imminent serious bodily injury; or*
  - 3) *prevent or interrupt the occupation of a building, room, place of assembly, place to which the public has access, or aircraft, automobile, or other mode of conveyance.*
- b) *An offense under this section is a Class A misdemeanor unless the false report is of an emergency involving a public or private institution of higher education or involving a public primary or secondary school, public communications, public transportation, public water, gas, or power supply or other public service, in which event the offense is a state jail felony.*

### ***JagE Alert***

Campus safety is a high priority at Texas A&M University-San Antonio (A&M-SA) as we ensure the safety of all our students, faculty and staff. **JagE Alert** is the A&M-SA comprehensive Emergency Notification System. Through this single site, students and employees can update their emergency contact information, see delivery statistics of previous emergency messages and access additional A&M-SA emergency management.

### ***SafeZone App***

SafeZone is a free mobile app for all University faculty, staff and students. The app connects you directly to the University Police Department (UPD) when there is an emergency on campus, 24 hours a day, seven days a week. Once you activate the app on your phone and request help, your location will be shown on a map for police officers to provide assistance. This call for help will give officers a general location so you must keep an eye out for responding officers when you are in need.

App registration requires the use of your University email. The [SafeZone app](#) can be downloaded from the [App Store](#) or [Google Play Store](#).

## ACADEMIC POLICIES AND PROCEDURES

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### ACADEMIC ADVISING

Texas A&M University-San Antonio places an emphasis on developing a one-on-one individual academic relationship between each student and an academic advisor. This relationship is essential when a student participates in the academic planning process.

A student who is unsure of a major should discuss his/her interests and goals with an academic advisor, or should visit Career Services to engage in career exploration and interest assessment activities.

### ACADEMIC PLAN

A student's plan for completing degree requirements should be created in consultation with their assigned academic advisor. Any exceptions to the degree requirements published in this catalog must be approved by the dean of the college in which the major is taken. All undergraduate degrees must conform to "General Requirements for Graduation" as set forth in the next section of the catalog.

### COURSE LISTINGS

The term "course" means a definite unit of work in a subject. Courses are offered on a semester basis. University course offerings are listed in this catalog by division and by department or program within that college according to the following method:

**Letter Code:** A four letter code at the beginning identifies the department or program that offers the course. A list of these letter codes is provided just before the course descriptions in this Catalog.

**Number Code:** The four digit code distinguishes each course in that department or program and identifies the level at which it is offered. The first and second digits in the course number hold specific meanings. The first digit indicates the course level (1000 freshman; 2000 sophomore; 3000 junior; 4000 senior; 5000 graduate) and the second digit indicates semester credit hours for the course. Courses with second and third digits of 1 and 5 are 1.5 semester credit hour courses. Courses numbered at the 1000 and 2000 level are lower division courses that are normally introductory in nature. Upper division courses numbered 3000 and 4000 are advanced undergraduate courses that normally require junior or senior standing and/or the completion of a preceding course or courses. Courses numbered 5000 are open only to students with graduate standing. (Some courses in the 4000 series also carry graduate credit; these are listed in the graduate catalog.)

**Title:** The identification code is followed by the course title. The identification code and a shortened form of the course title are used to list courses in the *Class Schedule* bulletin published each semester for registration purposes and on a student's permanent transcript.

**Credit Hours:** The final information given on a course listing's entry line indicates the semester credit hours of the course. When the letter *V* appears, the course is offered for variable credit, to be determined at the time of registration. The two digits in parentheses following the semester credit hours are the number of hours of lecture and the number of hour of laboratory required each week respectively. When a course includes a recitation, three digits appear in parentheses following the semester credit hours indicating the number of hours of lecture, the number of hours of laboratory and the number hours of recitation required each week respectively.

**Course Description and Special Conditions:** Below the entry line is a brief description of the course, a notice of any special restrictions for registration in the course and an indication, if any, of a laboratory fee.

## **REGISTRATION**

The university has a computer-assisted registration system. This system allows a student who registers early priority in course selection and class schedule. It is designed to provide individual academic advising between advisor and student. This gives students an opportunity to review their academic programs and select the specific sections of the courses desired for the next semester. Online registration is available for eligible students only. Specific registration dates, instructions and information are provided on the university website.

## **DEFINITION OF A CREDIT HOUR**

A credit hour is an amount of work that reasonably approximates: not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately 15 weeks for one semester, or the equivalent amount of work over a different amount of time; at least an equivalent amount of work as outlined in the item above for other academic activities as established by the institution including laboratory work, internships, practicum, studio work, and other academic work leading to the award of credit hours. (This information is in accord with federal regulations regarding the definition and assignment of credit hours under section 600.0 and 600.24(f) of the Higher Education Opportunity Act.)

A credit hour represents a unit of measure of instruction consisting of 60 minutes, of which 50 minutes must be direct instruction over a 15-week period in a semester system. Academic administrative units are responsible for ensuring that credit hours are awarded only for work that meets this requirement. (This is in accord with The Texas Higher Education Coordinating Board definition.) Transfer credits will be evaluating for equivalency to this requirement. Students should expect to invest a minimum of two hours of additional work for each hour of classroom or faculty instruction per week.

## **NORMAL LOAD**

The normal load for a semester is usually one-eighth of the total number of credit hours required for the degree toward which the student is working. That load is normally 15-18 hours per fall and spring semesters. The normal load for a summer session is two courses (6-7 semester hours).

A regular undergraduate student, defined as one carrying a minimum of 12 semester hours, is expected to register each semester for a normal load of work. A student registered for fewer than 12 semester hours is considered a part-time student.

Students with a *B* average (3.0) for the last semester or term of registration may register for a *maximum* of 8 semester hours of academic work during one summer term *only*.

Undergraduate students with an institutional GPA of 3.25 or higher and students who are graduating seniors may register for 19 or more hours. Students meeting this criteria must consult with their academic advisors before registering for 19 or more hours. Only in exceptional circumstances, and only with the approval of the college dean, will undergraduate students who do not meet these criteria be allowed to exceed the course load limitations. If a student is concurrently enrolled at other institutions of higher education in the same semester, the total course load at all institutions is to be considered in applying these policies. It is the responsibility of the student to inform his/her academic advisor of any concurrent enrollments. The maximum load for a student registered for any graduate credit is 15 hours a semester.

## **CLASSIFICATION OF DEGREE-SEEKING STUDENTS**

Texas A&M University-San Antonio enrolls degree-seeking students in both undergraduate and graduate programs. An undergraduate student is one who has not yet received a baccalaureate degree. A graduate student has earned a baccalaureate degree and is enrolled in graduate coursework.

A degree-seeking undergraduate is classified as a freshman (or first-year student), sophomore, junior, or senior according to the number of semester credit hours earned, as follows:

<b>Classification</b>	<b>Semester Credit Hours Earned</b>
Freshman (or First-Year Student)	fewer than 30
Sophomore	at least 30, but fewer than 60
Junior	at least 60, but fewer than 90
Senior	90 or more

**ENROLLMENT STATUS FOR FINANCIAL ASSISTANCE**

Enrollment status affects a student's eligibility for financial assistance. Students who are enrolled at least half time may be eligible for financial aid.

<b>Enrollment Status</b>	<b>Semester Credit Hours Required</b>
Full-time undergraduate student:	Fall or spring term = 12 hours Combined summer terms = 12 hours
Three-quarter-time undergraduate student:	Fall or spring term = 9 hours Combined summer terms = 9 hours
Half-time undergraduate student:	Fall or spring term = 6 hours Combined summer terms = 6 hours

<b>Enrollment Status</b>	<b>Semester Credit Hours Required</b>
Full-time graduate student:	Fall or spring term = 9 hours Combined summer terms = 9 hours
Half-time graduate student:	Fall or spring term = 6 hours Combined summer terms = 6 hours

Non-degree students are not classified as part-time or full-time students, nor are they classified as freshmen, sophomores, juniors, or seniors.

## **PREREQUISITES**

No student shall be allowed any credits for a course before credit in its prerequisite is obtained, except on the written approval of the Department Chair of the program offering the course. Also, the course(s) to be taken in lieu of the prerequisite(s) must be approved in writing by the Department Chair of the program in the student's major before the prerequisite course(s) requirement may be waived.

All students must be complete in all three areas of TSI (Math, Reading, and Writing) in order to register in upper division courses (3000- and 4000-level). If the student is not complete in all three areas, they will not be eligible to register in upper division courses.

## **SCHEDULE CHANGES**

### **Adding a Course**

A course may be added by a student using the online registration system without approval of university officials, as long as departmental approval is not required. (See regulation for "Normal Load.") It is highly recommended that a student consult with his/her academic advisor before attempting to add a course. After the online registration system is closed, written permission is required from the academic advisor and professor of the course being added to add the course. These requests must be processed by the Office of the Registrar. The student may only add classes during the time specified in the official academic calendar.

### **Dropping a Course**

A course may be dropped by a student without approval from his/her academic advisor or other university official. Students who have been readmitted on academic/scholastic probation must also consult with their advisors prior to dropping or withdrawing. It is highly recommended that a student consult his/her academic advisor because of the impact on financial aid, graduation, veteran benefits, etc. After the online registration system is closed, all drops must be processed by the Office of the Registrar. A student who, by dropping a course, becomes registered for less than a normal load will be reclassified as a part-time student.

Freshmen students who intend to drop a course must first visit their Academic Success Coach.

### ***Senate Bill 1231 and the University's Drop Policy for Undergraduate Students***

In accordance with Texas Education Code 51.907 (Senate Bill 1231), passed during the 80th Texas Legislative Session, "an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education." Undergraduate students who completed a high school or equivalent program and enrolled in an institution of higher education prior to the Fall Semester of 2007 are exempt from the requirements of Senate Bill 1231. Undergraduate students who complete a high school program, or the equivalent, and enter a Texas public institution of higher education for the first time on or after the Fall Semester of 2007 are subject to the requirements of Senate Bill 1231.

### ***Drop Policy for Graduate and Undergraduate Students Exempt from Senate Bill 1231***

A student exempt from Senate Bill 1231 may drop a course with an automatic grade of W if the drop is processed on or before the 10th week of the semester or the mid-point of the summer session as indicated on the official university calendar, regardless of the student's academic performance in the course at the time of the drop. The grade of W is a non-punitive grade that will not affect the student's grade point average.

### ***Drop Policy for Undergraduate Students Subject to Senate Bill 1231***

Beginning with the 2007-2008 Academic Year, in accordance with Texas Education Code 51.907 (Senate Bill 1231), undergraduate students subject to Senate Bill 1231 will be permitted only six (6) non-punitive drops during their undergraduate studies. Non-punitive grades included in the maximum number of drops will be identified on the transcript with a grade of WS. Once a student has accumulated 6 (six) WS grades, the student will not be permitted

to drop a course. Drops processed while withdrawing from the university will not be included in the maximum number of non-punitive drops.

***Drops Policy for Course with Concurrent or Co-Requisite Enrollment Requirements for Undergraduate Students Subject to Senate Bill 1231***

In determining the number of non-punitive course drops by a student subject to Senate Bill 1231 when concurrent or co-requisite courses are involved, the following regulations will apply. (Concurrent and co-requisite courses are courses with different course numbers such as a lecture course with its own course number and a lab course with a different course number that must be taken at the same time.)

1. If the student is required to drop both courses when dropping either course, then both course drops will be calculated as one drop.
2. If the student is not required to drop both courses at the same time, then each course will be treated as a separate drop. However, if the student drops both courses at the same time, the drops will be calculated as one drop.
3. Each drop will be subject to the maximum number of non-punitive drops allowable under Senate Bill 1231.

***Exceptions to the Maximum Number of Non-Punitive Drops for Undergraduates Subject to Senate Bill 1231***

A non-exempt student may drop a course with a non-punitive grade that is not included in the maximum number of non-punitive drops if extenuating circumstances are involved. In such cases, a grade of WX will be posted as the student's official grade for the course. A grade of WX may only be awarded if one or more of the following circumstances are involved and the drop is approved by the appropriate college dean.

1. The student has a severe illness or other debilitating condition that affects the student's ability to satisfactorily complete the course.
2. The student is responsible for the care of a sick, injured or needy person that affects the student's ability to satisfactorily complete the course.
3. The student has suffered the death of a person who is considered to be a member of the student's family or person who is otherwise considered to have a sufficiently close relationship to the student\* that the person's death is considered to be a showing of good cause for dropping the course.
4. The student is a member or dependent of a member of the Texas National Guard or the armed forces of the United States and the active military service is considered to be a showing of good cause for dropping the course.
5. The student has a change of work schedule that is beyond the control of the student and the change affects the student's ability to complete the course.
6. The student has other extenuating circumstances that prevent the completion of the course and the circumstances are approved by the college dean.

\*A "member of the student's family" is defined to be the student's father, mother, brother, sister, grandmother, grandfather, aunt, uncle, nephew, niece, first cousin, step-parent, or step-sibling; a "person who is otherwise considered to have a sufficiently close relationship to the student" is defined to include any other relative within the third degree of consanguinity, plus close friends, including but not limited to roommates, house mates, classmates, or other persons identified by the student for approval by the institution, on a case-by-case basis.

***Appeals to the Maximum Number of Non-Punitive Drops for Undergraduates Subject to Senate Bill 1231***

A student who wishes to request an exemption to the maximum number of non-punitive drops must submit a letter of appeal with appropriate documentation to the Registrar within five (5) business days of the drop. If the student cannot provide the supporting documentation within five business days of the drop, the student must request an extension with the college dean within five business days of the drop.

### **Administrative Drops for Non-Attendance**

A faculty member may drop an undergraduate student for non-attendance at any time prior to the mid-point of a long semester. A drop processed by a faculty member for non-attendance will be treated as a non-punitive grade unless the undergraduate student is subject to the requirements of Senate Bill 1231. The Office of the Registrar will treat all drops processed by a faculty member in accordance with the requirements of Senate Bill 1231 and may change a grade of W to a grade of WS or an F, depending on the student's status.

If a student drops the only course for which enrolled, the student must follow the process for withdrawing from the university as stated below.

### **WITHDRAWAL FROM THE UNIVERSITY**

If a student finds it necessary to withdraw from the university, the student must notify the Office of the Registrar and process a withdrawal form. (See also regulations entitled "Refund of Fees.")

All freshmen students are required to meet with their Academic Success Coach prior to withdrawing from the University. Withdrawal forms from freshmen must be signed by the Academic Success Coach.

### **Withdrawal of Students Ordered to Military Active Duty**

If a current student is called to active duty, and the duty will exceed 25% of the total number of class meetings or contact hour equivalents, the student has several options for courses in which he/she is enrolled. The student must provide a copy of military orders to receive one of the following: 1) full refund of tuition and fees paid by the student for the semester in which the student withdraws; 2) with instructor approval, incomplete grade(s) for the semester in which the student withdraws; or 3) with instructor approval, assignment of an appropriate final grade(s) or credit(s). Upon the student's request, pre-registered classes will be dropped. If the student returns prior to the beginning of a semester he/she will be reinstated into this institution.

If a current student, including one enrolled in distance education, self-paced, correspondence, and other asynchronous courses, is called to active military service for a period of time not to exceed 25% of the total number of class meetings or contact hour equivalents, and chooses not to withdraw from the university, the student shall be excused from attending classes or engaging in other required activities, including examinations, during that period of time. The student shall be allowed to complete (an) assignment(s) or take (an) examination(s) within a reasonable time after the absence. The student's course work previously completed will be retained and the student will be able to complete the course without prejudice and under the same course requirements that were in effect when the student enrolled in the course. If the course requirements are not completed by the end of the semester in which the student is called to active military service, the grade of "I" will be awarded. Normal academic regulations relating to grades of "I" will apply, as well as normal grade dispute resolution processes, in the event of such disputes.

### **Excess Undergraduate Credit Hours (45-Hour Rule vs. 30-Hour Rule)**

Effective with students initially enrolled in the fall 1999 semester and subsequent terms, resident undergraduate students who have attempted more than 45 hours (including dual credit hours) beyond the minimum number of hours required for completion of the degree plan in which they are enrolled will be assessed \$100 per credit hour for repeated and/or excessive hours.

Effective with students initially enrolling in the fall 2006 semester and subsequent terms, resident undergraduate students who have attempted more than 30 hours (including dual credit hours) beyond the minimum number of hours required for completion of the degree plan in which they are enrolled will be assessed \$100 per credit hour for repeated and/or excessive hours.

For the purpose of excess hours, “resident undergraduate student” includes a nonresident student who is permitted to pay resident tuition.

### **CONCURRENT ENROLLMENT**

Credits earned by a student at another institution while also enrolled at Texas A&M University-San Antonio will be transferred to Texas A&M University-San Antonio only if the student has received prior written approval from the college dean. Prior approval will be granted consistent with the university's normal load regulations.

### **NON-CREDIT ADMISSION (AUDITING)**

A student may attend classes for a course without receiving credit if he or she submits a Course Audit Form at the time of registration, and has the permission of both the instructor of the course and the dean of the college in which the course is offered. No formal admission to the University is required for course audits. The Course Audit Form is available from the Office of the University Registrar. The fee for auditing a course is the same as that required for registration for credit, however no credit will be awarded, no records will be kept, and the student may be restricted from lab work and tests. A student will not be given permission to audit a course until the first day of classes.

Students may not change from credit to audit status after the 12th class day during a long semester or after the 4th class day during the summer. Senior citizens (65 or over) may audit with all fees exempted except material or field trip fees on a space available basis only. If the student is under the age of 22, Texas A&M University-San Antonio will require the students to provide certified proof from a health practitioner that he or she has received a Bacterial Meningitis vaccination or booster within the last five years. Under no circumstance may audit be converted to credit. No refunds are given on audits.

### **CLASS POLICIES**

A student has the right to expect competent, well-organized instruction for the full number of clock hours allotted for a course; to sufficient written assignments, graded fairly and with reasonable promptness to show the student's academic standing in the course at least before mid-semester; to have ample opportunity to confer with the instructor at published office hours and to review graded written work; to freedom from ridicule, discrimination, harassment or accusations in the presence of other students or faculty members; and to an avenue for appealing to higher academic authority in case of alleged unfairness by an instructor.

### **ACADEMIC DISHONESTY**

Students are expected to do their own course work. Simple cases of first offense cheating or plagiarism by an individual student may be handled by the instructor after consultation with the department chair. The student is usually confronted with the evidence in private and advised of the penalty to be assessed. The evidence will be retained for at least one full year.

For more serious cases, such as those involving repeated offenses, conspiracy with other students or the theft and selling of examination questions, a report should be made by the instructor via the department chair and college dean to the Office of Student Rights and Responsibilities.

Academic dishonesty is a violation of the Student Code of Conduct; therefore, the instructor may report any form of academic dishonesty to the Office of Student Rights and Responsibilities. Please review the Student Handbook for a complete description of the process. The Student Handbook is available through the Student Rights and Responsibilities webpage:

<http://www.tamusa.edu/studentengagementsuccess/StudentRightsAndResponsibilities/index.html>.

Penalties for academic dishonesty may range from a grade of F on the particular paper or in the course to expulsion from the University.

### **CLASS ATTENDANCE**

A vital part of every student's education is regular attendance of class meetings. Any absences tend to lower the quality of a student's work in a course, and frequent or persistent absences may preclude a passing grade or cause a student to be dropped from one or more courses upon the request of a faculty member to the Provost and Vice President for Academic Affairs.

### **ABSENCES FOR RELIGIOUS HOLIDAYS**

The university will allow students who are absent from classes for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the fifteenth day after the first day of the semester, that student has notified the instructor of each class to be missed. The instructor may appropriately respond if a student fails to complete the assignment or examination within a reasonable time after the absence.

### **READING DAYS**

The academic calendar formally indicates the last day of classes. Faculty may **not** schedule classes after the last official day of classes. University sanctioned Reading Days are incorporated into the university calendar in an effort to provide students with additional preparation time before the commencement of final examination week. Final examinations, including take home finals, comprehensive examinations or projects, may **not** be assigned or due on a university-sanctioned Reading Days or the last day of classes, as published in the catalog. Reading Days apply to 16-week courses only. Reading Days do not apply to classes that meet on Saturday. Classes scheduled on Saturday may meet after the scheduled reading days to meet contact hour requirements.

### **RESEARCH ON HUMAN SUBJECTS**

Research that involves human subjects must be approved by the Institutional Review Board for the Protection of Human Subjects.

### **GRADES**

Grades, with numerical values corresponding to these letters, are recorded as follows:

*A*      Excellent, 90-100.

*B*      Good, 80-89.

*C*      Average, 70-79.

*D*      Passing, 60-69.

*F*      Failure, below 60.

*FN*    Failure (Non-Attendance), below 60.

*CR/NC*    Credit/Non-credit: used for courses that do not meet the normal or traditional framework of course scheduling and do not lend themselves to letter grading.

*I*      Incomplete: given to a student who is passing but has not completed a term paper, examination or other required work. The instructor and the student are required to complete the standard university contract form for each course in which the temporary grade of *I* has been assigned. The grade of *I* will be used only

to allow a student who has encountered some emergency such as illness or an accident an opportunity to complete the requirements for a course. A grade of *I* reverts to a grade of *F* one year from the close of semester/term in which the grade was originally recorded if the course requirements have not been satisfied.

- IP* In Progress: used for graduate theses and graduate research projects. (Students must register every subsequent semester until the final grade is given.) In-progress (*IP*) grades remain indefinitely on a student's transcript and cannot be changed with a change-of-grade card.
- W* Dropped: given when a student has officially dropped or withdrawn from the university before or on the mid-semester point as indicated on the official university calendar, regardless of student's standing in class. Also given after the mid-semester point to a student who is passing at the time the official drop is processed. (A student who is not passing receives the grade of *F* under such circumstances.)
- WX* Dropped: given when a student impacted by SB 1231 has officially dropped a course and extenuating circumstances are involved (refer to "Exceptions to the Maximum Number of Non-Punitive Drops for Undergraduates Subject to Senate Bill 1231." Also applies to students impacted by SB 1231 who officially withdraw from the university.
- F* Dropped: given when a student impacted by SB 1231 has officially dropped a course after the mid-semester point who is not passing or has accumulated six (6) QI grades regardless of the student's academic standing in the class.
- WS* Dropped: given when a student impacted by SB 1231 has officially dropped a course before or on the mid-semester point as indicated on the official university calendar, regardless of student's standing in class. Students are allowed a total of six (6) drops during their entire undergraduate studies. Also given after the mid-semester point to a student who is passing at the time the official drop is processed. (A student who is not passing receives the grade of *QF* under such circumstances.)
- NG* No grade posted by instructor: used to indicate that no grade was posted by the instructor teaching the course.

### **Removing the Grade of *I***

For the undergraduate student, the grade of *I* must be removed within the time specified by the instructor, not exceeding 12 months from the date the *I* was recorded. When the student completes the work in the course, the instructor submits a change of grade card through the chair of the department and the college dean to the Registrar. The grade of *I* may be changed only to *A*, *B*, *C*, *D* or *F*. Should the conditions specified above not be met, the *I* will become an *F*. Extensions of time, when merited, may be granted by the Provost and Vice President for Academic Affairs after consultation with the college dean. *I* grades must be completed prior to graduation. *I* grades not completed by the end of the semester in which the student is scheduled to graduate will turn into *F*'s and will be calculated into the cumulative grade point average. Students should not enroll in the course for the subsequent term unless the deadline for the *I* grade completion has passed and the student received a grade of *F*.

### **Change of Grade**

After being reported to the Registrar, grades other than *I* may not be changed unless an error has been made by the instructor.

Students should review their end of semester final grades closely to ensure their accuracy. If an error or discrepancy should occur, the student should contact the appropriate professor and/or the Office of the Registrar immediately to be resolved. It is recommended that those changes occur no later than the beginning of the next semester. Grade changes requested after one calendar year are subject to approval by the Dean of the College.

## **REPETITION OF A COURSE**

If a student repeats a course that may not be taken for additional credit, it is the policy of the university to count as part of a student's cumulative grade point average the highest grade received in the course. However, for purposes of grade point average calculation on course work for graduation, grades stand as recorded unless the same course is repeated at this university.

Students who have received their first bachelor's degree from this institution cannot repeat courses that were used to earn the first degree for purposes of grade point average calculation.

### **Repeated Grade Notation**

Repeated course(s) and grade(s) are not removed from the official or unofficial transcript. The repeated grade and grade points will be removed from the cumulative grade point average only. The repeated course will be identified with the letter "E" next to the quality points on the transcript. Repeating a course after graduation will not change your graduation grade point average.

### **Semester Honors Recognitions**

Full-time undergraduate students of the highest academic rank will be honored each semester by the publication of their names in the President's List or the Dean's List, to be referred to as honor lists, based on their academic performance for that semester.

All summer term grades, for Maymester, Summer I, Summer II, 8-week and 10-week terms, will count toward an overall summer semester grade point average for determination of eligibility for inclusion in these honor lists.

Receiving a grade of D, F, I, W, or WS for a semester makes a student ineligible for inclusion in these honor lists for that semester. If there is a change in grade for a semester after the publication of the honor list lists for that semester, and the change results in the student's eligibility for inclusion in the honor lists for that semester, then the student will be added retroactively to the honor list for that semester.

Only courses completed at A&M-San Antonio will be used for determination of eligibility for inclusion in the honor lists.

- **President's List:** This list includes undergraduate students who achieve scholastic distinction in a semester, as evidenced by a grade point average of 4.0 in at least 12 semester credit hours in a semester excluding grades of CR.
- **Dean's List:** This list undergraduate students who achieve scholastic distinction in a semester, as evidenced by a grade point average of 3.5 to 3.99 in at least 12 semester credit hours in a semester excluding grades of CR.

These lists will be published within one month after the grades for the long semester are announced, and in the month of September for the previous summer term. In a given semester, a student will be recognized for only the highest of the above honors which the student qualifies.

Official notification of these designations will be issued to the student by the Dean of the student's college and mention of inclusion in the honor list will be made in both unofficial and official transcripts.

## **ACADEMIC STANDING**

### **Classification of Students**

- Freshmen: 0-29 semester hours of credit.
- Sophomore: 30-59 semester hours of credit.
- Junior: 60-89 semester hours of credit.
- Senior: at least 90 semester hours of credit or higher

### **Grade Point Average**

The grade point average accumulated on the permanent record of a student at Texas A&M University-San Antonio will be based on course and grade points earned by a student on work taken at this university. Transfer courses will be accepted as credit only. Such credit may be used for fulfilling degree requirements and graduation requirements. (For information on specific academic division admission, certification and graduation requirements, refer to the appropriate section of this catalog.)

A student's grade average on this university's work is expressed in grade points. Each semester hour of *A* counts four points, *B* three points, *C* two points, *D* one point and *F* zero points. The cumulative, or overall, grade point average (GPA) is computed by dividing the total quality points earned by the total number of quality hours. Transferred and credit-only hours are not computed in the cumulative Texas A&M University-San Antonio grade point average.

### **Grade Point Summary**

All official and unofficial transcripts will have the following abbreviations:

- AHRS (Attempted Hours): A&M-SA and transfer courses (all grades)
- EHRS (Earned Hours): A&M-SA and transfer courses (passed/credit)
- QHRS (Quality Hours): A&M-SA courses only (passed/failed)
- QPTS (Quality Points): A&M-SA courses only
- GPA (Grade Point Average): Equal to QPTS/QHRS

### **Minimum Grade Requirements**

A minimum 2.0 cumulative institutional GPA is required to avoid probation. Students in the Teacher Preparation Program in the College of Education & Human Development must maintain a minimum of 2.75 cumulative institutional GPA. All transfer students must have a cumulative 2.0 GPA to transfer into Texas A&M University-San Antonio.

### **Academic Warning**

If it is the student's first semester at Texas A&M University-San Antonio (transfer or freshman) and at the end of their first term the student earns less than a 2.0 institutional GPA, they will be placed on Academic Warning. In order to get off of academic warning a student must bring their institutional GPA to a 2.0 or higher by the following term. If the student does not bring their GPA to a 2.0 in one semester or term, the student will then be placed on scholastic probation. All academic warning students will be required to meet with an Academic Success Coach, but will not be required to complete JAGS.

### **Scholastic Probation**

Undergraduate students will be placed on scholastic probation any time their overall grade point average at Texas A&M University-San Antonio falls below 2.0. Students placed on scholastic probation for the first time are required to seek academic advising before registering for classes and are required to meet with the Student Academic Success Center in order to register for the following term and participate in the JAGS program. In order to remain on scholastic probation, a student must earn a semester or term GPA of 2.0. As long as the student maintains a semester GPA of a 2.0 and remains beneath a 2.0 institutional GPA, the student will be required to meet with the Student Academic Success Center and participate in the JAGS program. Students on scholastic probation are limited to 13 hours every semester they remain on scholastic probation.

### **Academic Dismissal**

Students who have been placed on scholastic probation and earn beneath a 2.0 semester or term GPA will be placed on academic dismissal. Because it is the first dismissal, the student will be required to sit out one semester and must complete an academic appeal, submit a personal letter, and an academic success plan. The appeal deadlines are as follows:

- Fall: June 15<sup>th</sup>
- Spring: October 15<sup>th</sup>
- Summer: March 15<sup>th</sup>

If a student is dismissed from the University a second or subsequent time, the student will be required to sit out a full academic year (fall, spring, and summer) before re-applying to the University. In order to re-apply the student must apply via <https://www.applytexas.org>, pay the Admissions fee, and submit an appeal to the University by the stated deadline below. The appeal deadlines are as follows:

- Fall: June 15<sup>th</sup>
- Spring: October 15<sup>th</sup>
- Summer: March 15<sup>th</sup>

All transcripts, appeal paperwork/documentation, and application fee must be paid before the deadline listed above. Appeal decisions are made by the Academic Suspension committee and are final.

### **Appeal Process for Dismissal**

Any student placed on Dismissal has the right to appeal to change that status. Students must initiate the appeal process with Student Success Center.

1. Students will be counseled by a Student Academic Success Coach. The student will obtain the appeal form, complete it, and submit any supporting documentation to the Academic Success Coach at least 15 days before the start of the term. This appeal should only be completed in extenuating circumstances. The Academic Suspension committee is within their rights to deny the appeal and require the student to sit out the requisite amount of time.
2. The form will be reviewed by Academic Suspension Committee and a determination made regarding the outcome. If a student's appeal is approved, the student must then participate in the JAGS program as part of their requirement for reinstatement.
3. If approved, the student is informed by the Director of Student Success and the Office of the Registrar is informed to allow registration for that term. Reinstated students will be limited to 13 hours automatically. It is at the Suspension Committee's discretion to limit the student further (3, 6, 9, or 12 hours). The restriction will stay on as long as the student is on scholastic probation or reinstatement.
4. If the appeal is denied, the student is notified of the decision by the Director of the Student Success Center and the academic dismissal status remains on the record. Students must reapply to the University if they do not enroll within one calendar year from the initiation of the academic dismissal.

As part of the re-admission appeal process, all students are required to develop, in consultation with an Academic Success Coach from the Student Success Center, a student success plan. As part of the student success plan, students will be required to complete specified assessments as well as participate in the JAGS Program. Students are required to complete the JAGS program as long as they remain on scholastic probation.

### **Jaguar Academic Guide for Success (JAGS)**

JAGS is a student success program that houses a comprehensive academic success plan including academic workshops, online modules, and one-on-one meetings to track student progress. The purpose of JAGS is to enhance student learning, create opportunities for students to establish a record of academic successes and provide individualized success plans created in collaboration with the student and an Academic Success Coach. Each plan emphasizes the strengths of each learner and identifies areas needing improvement.

## **STUDENT RECORDS**

### **Transcripts**

Texas A&M University – San Antonio has retained Credentials Inc. to accept transcript orders over the internet. Students may order transcripts via their JagWire account, or on the Office of the Registrar's webpage.

A student must provide identification at the Welcome Center when picking up a copy of a transcript in person. The Family Educational Rights and Privacy Act of 1974, and amendments thereto, states that parents, spouse, legal guardian or others are not authorized to pick up transcripts of students unless written authorization by the student is provided.

### **Holds**

All students should clear any holds they have on their records immediately. Failure to clear a hold causes delays and inconvenience when trying to obtain copies of transcripts through the mail or in person. Since a hold on the record may affect printing and mailing of grades at the end of the semester, students should be sure they do not have any holds before final examinations start. Students with a registration hold on their record will not be permitted to register.

### **Change of Name, Address, Gender, or Social Security Number**

Students who wish to change their name on their transcript must provide legal documentation of the change to the Office of the Registrar. Not advising the Office of the Registrar of a legal name change may cause transcript requests and registration problems. Students who change their address should likewise notify the Office of the Registrar, Financial Aid or Business Office.

### **Death of a Student**

The death of a currently enrolled student should be reported to the Vice President of Student Affairs. After confirming the death, the Vice President of Student Affairs notifies the appropriate student success departments, faculty and college dean. The Office of the Registrar will be notified to close all student records, and codes the student information system to block mailings to the deceased.

### **Family Educational Rights and Privacy Act of 1974 and Amendments Thereto**

This act is designated to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the institution to comply with the act.

Texas A&M University-San Antonio accords all rights under the law to all students. No one outside the institution shall have access to nor will the institution disclose any information, other than directory information, from a student's education records without the written consent of the student, except to personnel within the institution, to officials of other institutions in which the student seeks to enroll, to persons or organizations providing student financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with judicial order, and to persons in an emergency in order to protect the health or safety of students or other persons. All these exceptions are permitted under the Act.

In compliance with the Family Educational Rights and Privacy Act of 1974, information classified as "Directory Information" may be released to the general public without the consent of the student. The following is designated as directory information:

Student's name, campus email, local telephone number, permanent phone number, dates of attendance, program of study (college, major, and campus), classification, previous educational agencies/institutions attended, participation in officially recognized activities, and degrees, honors and awards received.

Students reserve the right to suppress any information from being released without their consent. Any student wishing to withhold any or all of this information should notify the Office of the Registrar. The University assumes that failure on the part of any student to specifically request the withholding of directory information indicates individual approval for disclosure.

## **GENERAL REQUIREMENT FOR GRADUATION WITH A BACCALAUREATE DEGREE**

The university has established General Education requirements for all baccalaureate degrees. A general education results in the acquisition of a common body of essential knowledge and skills that together facilitate the development of students as individuals and as members of communities. Students are also advised to consult the online catalog for any additions to the course offerings. Some courses are listed in two areas; a student may count such a course in either area, but not both.

That common body of essential knowledge and skills shall include the following component areas and must equal 42 semester credit hours.

Courses which satisfy the various components of the core curriculum are listed below. Students are strongly advised to consult their individual degree plans and academic advisers for any specific requirements for their majors within the General Education curriculum.

### **Communication (010)**

Required: 6 semester credit hours

- ENGL 1301, ENGL 1302, ENGL 2311

Core Objectives: Critical Thinking Skills, Communication Skills, Teamwork and Personal Responsibility

### **Mathematics (020)**

Required: 3 semester credit hours

- MATH 1314, MATH 1324, MATH 1332, MATH 1342, MATH 2312, or MATH 2313

Core Objectives: Critical Thinking Skills, Communication Skills and Empirical and Quantitative Skills

### **Life and Physical Sciences (030)**

Required: 6 semester credit hours

- BIOL 1306, BIOL 1307, BIOL 1308, BIOL 1309, BIOL 2401, BIOL 2402
- CHEM 1311, CHEM 1312
- GEOG 1301
- GEOL 1301, GEOL 1302
- PHYS 1301, PHYS 1302, PHYS 2325, PHYS 2326

Core Objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills and Teamwork

### **Language, Philosophy and Culture (040)**

Required: 3 semester credit hours

- ENGL 2321, ENGL 2326, ENGL 2331, ENGL 2344, ENGL 2346
- PHIL 1301, PHIL 2306
- SPAN 2320

Core Objectives: Critical Thinking Skills, Communication Skills, Personal Responsibility and Social Responsibility

### **Creative Arts (050)**

Required: 3 semester credit hours

- ARTS 1301
- ENGL 2345, ENGL 2388
- MUSI 1306

Core Objectives: Critical Thinking Skills, Communication Skills, Teamwork and Social Responsibility

**American History (060) (legislatively mandated)**

Required: 6 semester credit hours

- HIST 1301 and HIST 1302

Core Objectives: Critical Thinking Skills, Communication Skills, Personal Responsibility and Social Responsibility

**Government/Political Science (070) (legislatively mandated)**

Required: 6 semester credit hours

- GOVT 2305 and GOVT 2306

Core Objectives: Critical Thinking Skills, Communication Skills, Personal Responsibility and Social Responsibility

**Social and Behavioral Sciences (080)**

Required: 3 semester credit hours

- ECON 2301, ECON 2302
- GOVT 2304
- PSYC 2301
- SOCI 1301, SOCI 1306

Core Objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills and Social Responsibility

**Component Option (090)**

Required: 6 semester credit hours total

Note: Courses already used to satisfy other component area requirements cannot also be used in the component area option.

- ARTS 1301
- BIOL 1306, BIOL 1307, BIOL 1308, BIOL 1309
- CHEM 1111, CHEM 1112, CHEM 1311, CHEM 1312
- ECON 2301, ECON 2302
- EDKN 1301, EDKN 1338
- ENGL 1301, ENGL 1302, ENGL 2311, ENGL 2331, ENGL 2345, ENGL 2355, ENGL 2388
- GEOG 1301, GEOG 1303
- GEOL 1101, GEOL 1102, GEOL 1301, GEOL 1302
- GOVT 2304
- HIST 2321, HIST 2322
- MATH 1314, MATH 1316, MATH 1324, MATH 1325, MATH 1332, MATH 1342, MATH 1350, MATH 1351, MATH 2312, MATH 2313, MATH 2314
- MUSI 1306
- PHIL 1301

- PHYS 1101, PHYS 1102, PHYS 1301, PHYS 1302, PHYS 2125, PHYS 2126, PHYS 2325, PHYS 2326
- PSYC 2301
- SOCI 1301, SOCI 1306
- SPAN 2320
- SPCH 1315, SPCH 1318

Core Objectives: Critical Thinking, Communication Skills and one of the remaining Core Objectives

## **OTHER DEGREE REQUIREMENT**

### **Declaration of a Major**

A major, when specified as a degree requirement, shall consist of a minimum of 24 semester hours in one subject, 6 of which must be taken at this university. In English, the required freshman courses may not count as part of this amount.

At least 50% of the work offered in the major field must be advanced, and at least 6 semester hours of advanced work must be offered in the minor field.

### **Declaration of a Minor**

A minor shall consist of a minimum of 18 semester hours in a subject closely related to the major, and at least 6 semester hours of advanced work must be offered in the minor field. In English, the required freshman courses may not count as part of this amount.

Requirements for each minor are listed in the appropriate College's section of the Catalog. A student who fulfills the specified requirements for two different minors has completed a double minor, provided there are at least 12 credits difference between the two minors. Minors do not appear on the diploma, but minors will be noted on the official transcript. A student cannot seek a major and minor in the same discipline. Students may declare no more than two minors. Students must be aware that credits in excess of those required as part of their degree plan may not be covered by financial aid.

In addition, any set of courses which meets the minimum requirements indicated above for all minors, may be accepted as an unspecified minor, subject to approval by the academic college dean and by the chair of the student's major department. An interdisciplinary or other specialized minor which meets the minimum requirements indicated above, may be recognized in individual cases, subject to approval by the student's major department, the academic college dean, and any department in which at least 9 hours of the proposed minor will be taken.

### **Concentration**

A concentration is a structured plan of study within a major and provides a focal point for a student's undergraduate academic learning. The number of credit hours for a concentration varies, and is specified within the overall credit hours for the major. The concentration does not appear on the diploma, but is included on the official transcript. Declaring two concentrations within the same major is not permitted.

### **Advanced Work**

Candidates for all bachelor's degrees must have a minimum of 36 semester hours of advanced course work. Requirements for the B.A.A.S. degree can be found in the *Bachelor of Applied Arts and Sciences* section of this catalog.

### **Grade Point Average**

An overall average of C (2.0) or above on all work attempted at Texas A&M University-San Antonio must be maintained. The grade average in the major and minor field where required must be C or above. For purposes of grade point average calculation on Texas A&M University-San Antonio course work for graduation, grades stand as recorded unless the same course is repeated at this university.

### **Academic Residence Requirement**

Candidates for all bachelor's degrees must have a minimum of 25 percent of total semester hours required for the degree completed in residence at this university.

## **RESTRICTIONS**

### **Number of Physical Activity Courses**

No more than four semesters of kinesiology activity courses may be counted toward a degree, except for the kinesiology majors and minors.

### **Maximum Number of Hours in Religion**

No more than 12 semester hours in religion may be counted toward any degree.

### **Correspondence Work**

No credit earned by correspondence on a course previously failed in residence may be counted toward a degree at this university.

### **Policy for the Modification of Course Curriculum**

On the basis of an individual student's disability documentation, and in extreme circumstances, consideration will be given to the modification of a student's course curriculum on a case-by-case basis, provided the integrity of the academic requirement is maintained. A student with a disability who requests the modification of course curriculum requirements must provide documentation of disability to the Office of Disability Support Services (DSS). The documentation will be reviewed by DSS professional staff according to the DSS guidelines for disability accommodation. If a qualified student has a physical or mobility impairment that renders them unable to participate in a course, the DSS may recommend a modification in course curriculum to the dean of the student's college. The dean, in consultation with other appropriate deans and academic chairs, will have the authority to approve substitution of courses or other academic requirements for the completion of a degree program as are necessary to ensure that academic requirements do not discriminate, or have the effect of discriminating on the basis of disability, against a qualified applicant or student with a disability.

### **Graduation Under a Particular Catalog**

The catalog designation a student receives when the University determines the curriculum and other academic policies that apply to the student. A student has the privilege of being graduated according to the curricular requirements as stated in the catalog of the year in which the student first registered for work in residence at the university, or the student may be graduated under any later catalog of a year in which the student was registered for residence work provided that requirements are met within six years of the date of the catalog chosen and provided further that the institution offers courses listed as requirements in previous catalogs.

A student who transfers from a public community college in Texas may choose to graduate under the University catalog in effect at the time the student first earned credit at the community college (maximum of two years earlier) or a later catalog in effect when the student earned credit at either the community college or the University.

If degree requirements are not completed within the six-year period, students must meet all program requirements effective for the catalog under which they expect to graduate.

Certification or licensure requirements are subject to change. Students enrolled in programs leading to certification or licensure must meet all current requirements, regardless of the catalog chosen.

### **Graduation and Completion of Transfer Credit**

Official transcripts for all transfer credit must be received by the first day of class in which the student expects to graduate. The first day of class for each semester is listed in the Academic Calendar. Failure to submit official transcripts in a timely fashion during the student's final semester may result in the student's degree being awarded in a subsequent semester. All students are encouraged to do a final graduation audit with an academic advisor in the department of their major at least one year prior to graduation to ensure that all transfer credit has been received, and if appropriate, applied to their degree plan.

**Application for Graduation**

A student who plans to receive a degree from Texas A&M University-San Antonio must apply for graduation. The Academic Calendar at the front of this catalog and the online Academic Calendar should be consulted for specific deadline dates. The degree will not be conferred unless the candidate has completed the application process on or before the designated deadline

**Use of Official Name on Diploma**

A student applying for graduation must use his or her official name as listed on the permanent record in the Office of the Registrar. No nicknames or any other informal name will be allowed. All printed information, including diplomas, will list a student's official name. A student requesting a name other than his or her official name on the diploma must change the name on the permanent record.

**Graduation in Absentia**

Graduation in absentia will be permitted only under special conditions stated in writing and approved by the Provost and Vice President for Academic Affairs.

**Double Majors**

A student who fulfills the specified requirements for two different majors (e.g. curricular, grade-point average, etc.) authorized under a single degree has completed a double major and will receive a single diploma, provided there is at least 24 credits difference between the two majors. Two examples of a double major are: 1) Bachelor of Science (BS) in Mathematics and BS in Computer Science; 2) Bachelor of Business Administration (BBA) in Accounting and BBA in Finance. A student may not seek more than two majors at one time. A student pursuing a second or subsequent degree must complete all university, college and department/curricular requirements for the additional degree. Both majors must reflect requirements for the same catalog year.

**Dual Degree**

A student who fulfills the requirements for two different majors under two different degrees, simultaneously, completes a dual degree. If two bachelor's degrees are conferred simultaneously, the student must complete a minimum of 30 unique hours beyond the requirements of the single degree. Graduation will occur when the student has completed requirements (e.g. curricular, grade-point average, etc.) for both degrees. Students completing dual bachelor's degrees receive two diplomas. Two examples of a dual degree are: 1) a student simultaneously completing a Bachelor of Arts (BA) in Communications and a Bachelor of Science (BS) in Kinesiology; 2) a student simultaneously completing a Bachelor of Arts (BA) in History and Bachelor of Science (BS) in Psychology. The graduation term must be the same for both majors. Both majors must reflect requirements for the same catalog year.

**Second Bachelor's Degree**

Holders of a baccalaureate degree from A&M-SA or other regionally accredited four-year college or university may be awarded a second baccalaureate degree. All A&M-SA catalog requirements for the second degree must be met including: 1) a minimum of 30 unique hours of earned credits; 2) if the student is from another university, 30 unique hours must be earned in residence; 3) a minimum of 24 of the 30 credit hours earned must be at the advanced level; 4) any credit hours from the first degree do not count toward the minimum of 30 additional hours; 5) completion of all requirements for the second bachelor's degree, including core, curricular, and grade-point average requirements.

**Undergraduates in Graduate Courses**

Undergraduate students at Texas A&M University-San Antonio may request permission to enroll in a maximum of 6 semester credit hours of graduate work provided they are enrolled in their final semester of undergraduate coursework and meet specific graduate program requirements. The graduate courses may not be used to satisfy

requirements for the baccalaureate degree. The student must have an institutional grade point average in excess of 3.0 on a 4.0 scale and can only be enrolled in senior level courses (4XXX).

This request must be approved by the Director of Graduate Studies before the student registers for the graduate courses. Undergraduate students registering for graduate classes without prior approval will be dropped. Forms for Concurrent Enrollment are available through the Academic Advising and Registrar's Office websites.

Note: Students who participate in concurrent enrollment will not be eligible to receive financial aid for the graduate level courses they are enrolled in. Students are responsible for payment of tuition and fees for those courses.

### **COMMENCEMENT AND UNIVERSITY HONORS (FOR UNDERGRADUATE DEGREES ONLY)**

Commencement is the ceremony in which candidates for the award of degree are recognized. Actual degrees are not awarded at the commencement ceremony. A final degree audit must be completed before a degree is officially awarded. A degree audit will not be completed unless the candidate applies for graduation in the term in which they plan to graduate.

Students participating in a commencement ceremony may be recognized with university honors. University honors are determined by using the institutional grade point average at the end of the semester immediately preceding the semester in which the student is a candidate.

University honors eligibility for cum laude, magna cum laude, and summa cum laude are used as indicated in the section below titled "Graduation with University Honors."

Prior to the May and December Commencement ceremonies students will be notified if they are eligible to participate with university honors at the commencement ceremonies.

Participation with university honors at commencement does not imply that the student will be awarded University Honors. Students must achieve an honors eligible grade point average once final grades are posted for the semester in which the student is a candidate.

### **GRADUATION WITH UNIVERSITY HONORS (FOR UNDERGRADUATE DEGREES ONLY)**

A grade point average of 3.9 is the minimum for graduation Summa Cum Laude (with highest honors); a grade point average of 3.7 to 3.89 will merit Magna Cum Laude (with high honors); an average of 3.5 to 3.69 will merit graduation Cum Laude (with honors). Grade point averages are not rounded up to achieve these figures.

## **UNDERGRADUATE DEGREES, MAJORS, AND MINORS OFFERED**

### **Degrees and Majors**

<b><i>Degree</i></b>	<b><i>Major</i></b>
Bachelor of Applied Arts and Sciences	
Bachelor of Arts	Biology, Communications, English, History, Mathematics, Political Science, Psychology, Spanish, Sociology
Bachelor of Business Administration	Accounting, Computer Information Systems, Finance, General Business Administration, International Business Management, Management, Marketing
Bachelor of Science	Biology, Child Development, Computer Science, Criminology and Criminal Justice, Cyber Engineering Technology, Interdisciplinary Studies, Kinesiology, Mathematics, Psychology, Water Resources Science and Technology*

### **Minors**

<b><i>College</i></b>	<b><i>Available Minors</i></b>
Arts and Sciences	Biochemistry, Biology, Chemistry, Communications, Criminology and Criminal Justice, English, History, Mathematical Biology, Mathematics, Mexican American, Latinx, and Borderlands Studies, Political Science, Psychology, Sociology, Spanish and Women's and Gender Studies
Business	Business Administration, Computer Information Systems, and Computer Science
Education and Human Development	Child Development, Education, Kinesiology and Special Education

Requirements for specific programs are available within the appropriate section of the Catalog.

\*Pending approval by the Southern Association of Colleges and Schools Commission on Colleges.

## COLLEGE OF ARTS AND SCIENCES

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### **ADMINISTRATIVE OFFICERS**

Mirley Balasubramanya, *Dean of the College of Arts and Sciences*, STEM Building 311 U

Ann V. Bliss, *Department Chair of Language, Literature, and Arts*, Central Academic Building 348 C

William S. Bush, *Department Chair of Communication, History, and Philosophy*, Central Academic Building 313 F

Durant Frantzen, *Department Chair of Social Sciences*, Central Academic Building 347E

Marvin M. F. Lutnesky, *Department Chair of Science and Mathematics*, STEM Building 311S

(210)784-2225

The College of Arts and Sciences is committed to the development of our students' academic and professional skills, preparation for post-baccalaureate education, and continued critical thinking after graduation. The curriculum builds on the foundational knowledge required for all academic degree programs at the University, emphasizing communication skills, analytical reasoning, and independent thought.

The College's faculty excels in teaching, scholarship, and service. The faculty and the curriculum engage student learning in a culturally diverse environment, serving the needs of traditional and non-traditional students. In pursuit of our mission, the College challenges our students to apply their intellectual curiosity and skills in order to improve their communities.

### **TEACHING CERTIFICATION**

Students seeking a certificate to teach in the secondary schools of Texas must earn a bachelor's degree in a recognized major. The State Board for Educator Certification approved new teaching fields and grade levels for certification beginning in 1999. Majors in the College of Arts & Sciences that may lead to secondary certification include: Biology, English, History, History (Social Studies emphasis), and Mathematics.

Specific degree requirements are mentioned in the degree plans published in this catalog. For additional information, refer to the College of Education & Human Development section in this catalog regarding the Standard Certificate. For additional guidance contact an academic advisor.

### **REQUIREMENTS FOR THE DEGREE**

All students obtaining a bachelor's degree must satisfy the "General Requirements for Graduation" as set forth in an earlier section of this catalog. Requirements include but are not limited to residence requirements, correspondence course limitations and grade point average rules. Each program sets the minimum number of hours required for its major and for graduation. Individual degree program requirements are provided in the sections that follow.

A minimum grade point average of 2.0 is required on (1) all course work specified for the degree, (2) all course work attempted at this university, (3) all courses in the major and the minor taken at this university and (4) all courses transferred for the minor when no courses in the minor field are taken at this university. Higher minimum grade point average than 2.0 may be required on all coursework for some degree programs.

## **FOREIGN LANGUAGE**

All Bachelor of Arts degree programs must include a minimum of 6 semester credit hours (6 SCH) of one foreign language at the 1000-level. Neither conversational language courses nor continuing education courses may be substituted for this requirement. Some degree programs may require an additional 6 SCH. Except for the Spanish B.A. program, the maximum overall foreign language requirement will not exceed 12 SCH.

Students who wish to demonstrate foreign language proficiency without taking college courses may do so through the existing credit by examination process. In cases where students wish to demonstrate proficiency in a language not included in the examination process, or not taught at A&M-SA, the following procedures shall apply. The student shall request an examination from the Dean of the College of Arts and Sciences. This college will coordinate the administration of special examinations to demonstrate foreign language proficiency. This will include finding an appropriate examination to test the student's proficiency, informing the student how to arrange to take the examination and certifying the results to the student's advisor. All arrangements shall be made and fees paid by the student.

American Sign Language (ASL) may be used to fulfill the foreign language degree requirement unless otherwise specified by the student's college or department. Students may either transfer ASL credits or arrange to be tested at another institution. A&M-SA does not offer courses in ASL.

## **COLLEGE OF ARTS AND SCIENCES MINORS AND DEGREE PROGRAM REQUIREMENTS**

The minors offered by the College of Arts and Sciences are Biochemistry, Biology, Communication, , Criminology and Criminal Justice, English, History, Mathematics, Mathematical Biology, Mexican American, Latinx, and Borderlands Studies, Political Science, Psychology, Sociology, and Women's and Gender Studies. Consult with your academic advisor to determine the optimum number of lower-division and upper-division courses within the chosen minor.

**Biochemistry:** The following courses are required:

- CHEM 1311/1111 General Chemistry I
- CHEM 1312/1112 General Chemistry II
- CHEM 2323/2123 Organic Chemistry I
- CHEM 2325/2125 Organic Chemistry II
- CHEM 4341/4141 Biochemistry I
- CHEM 4342 Biochemistry II

**Biology:** To earn a minor in Biology, students are advised to take General Biology I and II (1306 and 1307) to fulfill their core requirements in the physical and life sciences in order to stay within 120 credit hours for their degree plans. A minor in biology thus consists of 6 credits in the core (General Biology I and II), and an additional 16-18 credit hours in BIOL. See below for specific courses and course-requirements for a Biology Minor

- BIOL 1306: General Biology I – fulfills the core requirement for physical and life sciences
- BIOL 1307: General Biology II - fulfills the core requirement for physical and life sciences
- BIOL 1106: General Biology I Laboratory
- BIOL 1107: General Biology II Laboratory
- BIOL 2411: Genetics
- An additional 10-12 credits in Biology, 10 of which must be upper-division

**Chemistry:** The following courses are required:

- CHEM 1311/1111 General Chemistry I

- CHEM 1312/1112 General Chemistry II
- CHEM 2323/2123 Organic Chemistry I
- Two additional upper-division (3000 or 4000) CHEM courses

**Communications:** The following lower division courses are required:

- COMM 1307: Introduction to Mass Communications
- COMM 2300: Multimedia Literacy
- COMM 2327: Introduction to Advertising **OR** COMM 2330: Introduction to Public Relations

An additional 9 hours of courses must be chosen from:

- |  |  |
|--|--|
| • COMJ 3321: Principles of Advertising | • COMM 3351: Media Effects                       |
| • COMJ 4301: History of Journalism     | • COMM 4315: Media Ethics                        |
| • COMJ 4322: Public Relations          | • COMM 4317: Mass Media, the Public, and the Law |
| • COMM 3350: Theories of Communication |  |

**Criminology and Criminal Justice:** To earn a minor in criminology and criminal justice, a student must complete CRIM 1301, CRIM 2330, CRIM 3350, CRIM 3385, and six additional hours of upper division CRIM courses.

**English:** To earn a minor in English, a student must complete ENGL 2370 and a minimum of 15 additional semester hours in English (beyond ENGL 1301 and ENGL 1302), at least 12 of which must be upper-division.

**History:** The minimum requirement shall be 18 semester hours, consisting of HIST 2321 and 2322 (World Civilization I and II), HIST 3301(Introduction to Historical Analysis). HIST 4301 (Methods of Historical Research) and 6 hours of advanced electives.

**Mathematical Biology:** This minor requires 18-21 credit hours of course work<sup>1</sup> as specified below:

- MATH 3371 Problem Solving with Computers
- MATH 3372 Mathematical Biology
- MATH 3373 Mathematical Physiology
- BIOL 1306 General Biology I (3 SCH) taken with BIOL 1106 General Biology I Lab (1 SCH)
- BIOL 1307 General Biology II (3 SCH) taken with BIOL 1107 General Biology II Lab (1 SCH)

And any one course selected from the following course list:

- MATH 1325 Mathematics for Business and Social Sciences II
- MATH 2313 Calculus I (3 SCH) taken with MATH 2113 Calculus I Lab (1 SCH)
- MATH 2314 Calculus II (3 SCH) taken with MATH 2114 Calculus II Lab (1 SCH)
- MATH 3320 Differential Equations
- MATH 3340 Linear Algebra with Applications
- MATH 3321 Applied Partial Differential Equations
- MATH 4390 Advanced Topics in Mathematics (1-4 SCH)
- MATH 4380 Undergraduate Research in Math (1-4 SCH)

<sup>1</sup>Courses that are required courses for the student's major must be substituted with different courses from the additional course list.

**Mathematics:** The minimum requirement to earn a minor in Mathematics is 18 hours to include MATH 2313 and MATH 2113 (Calculus I), MATH 2314 and MATH 2114, and 12 additional hours of upper-division math electives excluding MATH 3350, MATH 3301 (Formerly MATH 4301) and MATH 3360.

**Mexican American, Latinx, and Borderlands Studies:** This minor consists of SOCI 2361 (Introduction to Mexican American, Latinx, and Borderlands Studies) and 15 additional semester hours of courses from the following list:

- CRIM 3357: Border Security Issues
- ENGL 4388: Latinx Literature
- EDBL 3327 Multicultural and Human Development
- EDEC 4301 Working with Diverse Families and Young Children
- EDRG 3335 Multicultural Children's Literature
- HIST 2301: Texas History
- HIST 2348: Mexican American History, 1848 to the Present
- HIST 3311: History of the Spanish Borderlands
- HIST 3312: Native American History
- HIST 4347: The American West
- HIST 4356: Mexico
- HIST 4370: Topics in History (when appropriate)
- MGMT 4379 Special Topics in Entrepreneurship: Latino Entrepreneurs and Business Leaders
- POLS 3341: International Relations
- POLS 4355: The Government and Politics of Mexico
- POLS 4370: Special Studies in Political Science
- SOCI 3361 Mexican Americans: Identities, Movements, and Social Justice
- SOCI 3362 Immigration, Racial Politics, and Nation
- SOCI 4343: Social and Natural Systems of the US-Mexico Border
- SOCI 4353 Mexican American Families
- SOCI 4362 Race and Ethnicity
- SOCI 4363 Afrx Latinx: Race, Culture, and Transnationalism
- SPAN 3331 Latin American Film History

**Political Science:** The minimum requirement is 18 hours to include POLS 3302 (Political Research and Analysis), POLS 3341 (International Relations), POLS 3351 (Comparative Politics), and either POLS 3321 (Political Theory: Ancient and Medieval) or POLS 3322 (Political Theory: Early Modern and Modern).

**Psychology:** The minor consists of a total of 18 hours, including PSYC 2301 (Introduction to Psychology) and at least 12 hours of upper-division Psychology courses. A minimum grade of C in PSYC 2301 is required of students pursuing a minor in Psychology.

**Sociology:** The minor consists of SOCI 1301(Principles of Sociology), SOCI 1306 (Social Problems) and 12 hours of upper-division Sociology courses.

**Spanish:** To earn a minor in Spanish, a student must complete SPAN 2312 (or equivalent) and an additional minimum number of 15 semester hours (beyond SPAN 1311, 1312, and 2311), 12 of which must be upper-division.

**Women's and Gender Studies:** This minor requires 18 semester hours of course electives, at least 12 of which must be upper-division. No more than 9 hours in any one discipline may apply toward the Women's and Gender Studies minor. Courses that count toward the minor include:

- ENGL 4370. Special Topics in English. 3(3-0) (*When taught from a Women's and Gender Studies perspective.*)
- ENGL 4375. Studies in Women's Literature. 3(3-0)

- HIST 4360. Women in History. 3(3-0)
- HIST 4366. Childhood in America. 3(3-0)
- POLS 4364. Women and Politics. 3(3-0)
- PSYC 3321. Intimate Relationships. 3(3-0)
- PSYC 3222. Gender Issues. 3(3-0)
- SOCI 2356. Gender and Society. 3(3-0)
- SOCI 3350. Myths and Realities of Marriage and Family. 3(3-0)
- SOCI 3360. Inequality and Social Stratification. 3(3-0)
- SOCI 4351. Family as an Economic Unit. 3(3-0)
- SOCI 4352. Deconstructing Disney: Race, Gender, and Age. 3(3-0)
- SOCI 4354. Sex, Sexuality, and Society. 3(3-0)
- SOCI 4364. Minority Women in U.S. Society. 3(3-0)











## BACHELOR OF SCIENCE IN BIOLOGY WITH A CONCENTRATION IN ECOLOGY

2019-2020 Degree Plan

<b>CORE CURRICULUM</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II OR ENGL 2311 Technical Writing		3
<b>(020) MATHEMATICS</b>		
MATH 2313 Calculus I		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
BIOL 1306 General Biology I		3
BIOL 1307 General Biology II		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences		3
<b>(090) COMPONENT AREA OPTION</b>		
CHEM 1311 Chemistry I		3
CHEM 1312 Chemistry II		3
<b>REQUIRED SUPPORT COURSES</b>	<b>23 SCH</b>	
	Grd	SCH
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
STEM 3101 Jaguar Tracks 3		1
STEM 4101 Jaguar Tracks 4		1
MATH 2113 Calculus I Lab		1
CHEM 1111 General Chemistry I lab		1
CHEM 1112 General Chemistry II lab		1
CHEM 2323/2123 Organic Chemistry I w/lab		3/1
CHEM 2325/2125 Organic Chemistry II w/lab		3/1
PHYS 1301/1101 General Physics I w/lab		3/1
PHYS 1302/1102 General Physics II w/lab		3/1

### 120 credit hours required for degree

36 advanced credit hours required for degree  
25% of courses must be taken at A&M-SA for degree

An earned letter grade of C in the following courses is required for this degree: BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107

<b>MAJOR (REQUIRED) COURSES</b>	<b>37-39 SCH</b>	
<b>2.0 overall GPA for major</b>	Grd	SCH
BIOL 1106 General Biology I laboratory		1
BIOL 1107 General Biology II laboratory		1
BIOL 2415 Statistics in Biology & Medicine		4
BIOL 2411 Genetics		4
BIOL 3402 Evolution		4
BIOL 2421 Microbiology		4
BIOL 3407 Ecology		4
BIOL 3408 or 4411 (Animal Phys or App of Plant Phys & Growth)		4
BIOL 4101, 4102, 4103, or 4104 Seminar (Interdisciplinary, Cell & Molec, Zoology, or Ecology topics respectively.)		1
BIOL Advanced elective with lab (Can be fulfilled by any advanced electives)		4
BIOL advanced electives (Can be fulfilled by any advanced elective)		6-8
<b>CONCENTRATION REQUIRED COURSES</b>	<b>17-18 SCH</b>	
	Grd	SCH
BIOL 2406 Introduction to Plant Biology		4
BIOL 4307 Conservation & Restoration Ecology		3
BIOL 4424 Field Biology		4
<b>Two of the following electives (7-8 SCH)</b>		
BIOL 3375 Applied Entomology		
BIOL 3403 Plant Taxonomy		
BIOL 3406 Animal Behavior		
BIOL 4409 Biology of Disease Vectors		
BIOL 4423 Wildlife Management		
BIOL 4425 Ornithology		
BIOL 4427 Herpetology		
BIOL 4429 Mammalogy		
BIOL 4430 Parasitology		
BIOL 4431 Ichthyology		
BIOL 4432 Primatology		
<b>ELECTIVES</b>		
As needed to complete 120 credit hours	Grd	SCH





# BACHELOR OF ARTS IN ENGLISH: LITERATURE EMPHASIS

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	GRD	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
Mathematics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
ENGL 2321 British Lit, ENGL 2326 Lit of Americas, ENGL 2331 World Lit, ENGL 2344 Intro to Fiction, or ENGL 2346 Intro to Poetry		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences		3
<b>(090) COMPONENT AREA OPTION</b>		
Component Area Option Course from Approved List		3
Component Area Option Course from Approved List		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>16 SCH</b>	
Preferably one language; if not, <u>only 2</u> languages; conversational language will not count	GRD	SCH
Foreign Language		3
UNIV 1101 Jag Tracks 1		1
UNIV 2101 Jag Tracks 2		1
ENGL 3101 Jag Tracks 3		1
ENGL 4101 Jag Tracks 4		1

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE  
 (30 ADVANCED HOURS FROM TAMUSA FOR RESIDENCY)

<b>MAJOR REQUIRED COURSES</b>	<b>39 SCH</b>	
<b>2.0 overall GPA for major</b>		
<b>36 hours must be upper-division</b>	GRD	SCH
ENGL 2370 Intro to English Studies (yr 2 sem 1)		3
ENGL 3312 Intro to Rhetoric (yr 3 sem 1)		3
ENGL 3315 Intro to Critical Theory (yr 3 sem 2)		3
ENGL 3331 Intersectional Shakespeare (yr 3 sem 2)		3
ENGL 4386 African American Lit or ENGL 4388 Latinx Lit (yr 4 sem 1)		3
ENGL 4398 Senior Seminar (yr 4 sem 2)		3
<b>Group One (Choose 1) Year 3</b>		
ENGL 3322, 3325, or 3327: Medieval Lit, Early Modern Lit, 18 <sup>th</sup> Century Lit		3
<b>Group Two (Choose 1) Year 3</b>		
ENGL 3342, 3344, or 3346: Romantic Lit, Victorian Lit, 20 <sup>th</sup> & 21 <sup>st</sup> Century Lit		3
<b>Group Three (Choose 1) Year 3</b>		
ENGL 3362 or 3363: Early American Lit, American Romanticism		3
<b>Group Four (Choose 1) Year 4</b>		
ENGL 3364 or 3366: 1865 to Progressive Era, 20 <sup>th</sup> & 21 <sup>st</sup> Century Lit.		3
<b>Group Five (Choose 2) Year 3 Year 4</b>		
ENGL 3300, 3301, 3320, 3376, 4310, 4312, 4315, 4330, or 4340 Special Topics, Adv Tech Writ, Writ in the Humanities, Mythology, Linguistics, Adv Comp, Grammar & Style, Topics in Creative Writ, Research Methods in Rhetoric and Comp (co-req 4341)		6
<b>Group Six (Choose 1)</b>		
ENGL 4370, 4372, 4375, 4395, or 4341 Special Topics, Major Authors, Women's Lit, Adv Visual Studies, Internship (co-req 4340)		3
<b>Optional Minor</b>	<b>18 SCH</b>	
<b>2.0 overall GPA</b>		
<b>10 Advanced Credit Hours Required</b>		
	GRD	SCH
<b>ELECTIVES</b>		
As needed to complete 120 credit hours required	GRD	SCH

# BACHELOR OF ARTS IN ENGLISH: RHETORIC AND WRITING EMPHASIS

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	GRD	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
Mathematics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
ENGL 2321 British Lit, ENGL 2326 Lit of Americas, ENGL 2331 World Lit, ENGL 2344 Intro to Fiction, or ENGL 2346 Intro to Poetry		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences		3
<b>(090) COMPONENT AREA OPTION</b>		
Component Area Option Course from Approved List		3
Component Area Option Course from Approved List		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>10 SCH</b>	
Preferably one language	GRD	SCH
Foreign Language		3
Foreign Language		3
UNIV 1101 Jag Tracks 1		1
UNIV 2101 Jag Tracks 2		1
ENGL 3101 Jag Tracks 3		1
ENGL 4101 Jag Tracks 4		1

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE  
 (30 ADVANCED HOURS FROM TAMUSA FOR RESIDENCY)

<b>MAJOR REQUIRED COURSES</b>	<b>36 SCH</b>	
<b>2.0 overall GPA for major</b>	GRD	SCH
ENGL 2370 Intro to English Studies (Year 2 Sem 1)		3
ENGL 3312 Intro to Rhetoric (year 3 sem 1)		3
ENGL 3315 Intro to Critical Theory (year 3 sem 2)		3
ENGL 3331 Intersectional Shakespeare (Year 3 Sem 2)		3
ENGL 4386 African American Lit or ENGL 4388 Latinx Lit (year 4 sem 1)		3
ENGL 4340 Research Methods in Rhetoric and Writing (year 4, sem 1)		3
ENGL 4341 Rhetoric and Writing Internship (year 4, sem 1)		3
ENGL 4398 Senior Seminar (year 4 sem 2)		3
<b>Group One (choose 1) Year 3 Sem 1</b>		
ENGL 2312 Borderland Rhetorics, ENGL 2314 Writing for the Professions		3
<b>Group Two (choose 1) Year 3 Sem 2</b>		
ENGL 3302 Rhetoric and Materiality, ENGL 3317 Grammar and Style, ENGL 3303 Professional Editing		3
<b>Group Three (choose 1) Year 3 Sem 2</b>		
ENGL 4342 Major Rhetoricians, ENGL 4343 Grant Writing, ENGL 4344 Writing for the Web, ENGL 4330 Topics in Creative Writing		3
<b>Group Four: (choose 1) Year 4, Sem 1</b>		
ENGL 4312 Introduction to Composition Studies, ENGL 4301 Advanced Technical Writing		3
<b>Optional Minor</b>		
<b>2.0 overall GPA</b>	<b>18 SCH</b>	
	GRD	SCH
<b>10 Advanced Credit Hours Required</b>		
<b>ELECTIVES</b>		
As needed to complete 120 credit hours for degree and 36 upper-division credit hours		
	GRD	SCH

# BACHELOR OF ARTS IN ENGLISH WITH TEACHER CERTIFICATION

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	GRD	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
Mathematics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
ENGL 2321 British Lit, ENGL 2326 Lit of Americas, ENGL 2331 World Lit, ENGL 2344 Intro to Fiction, or ENGL 2346 Intro to Poetry		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Pub Speaking		3
Component Area Option Course from Approved List		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>10 SCH</b>	
Preferably one language	GRD	SCH
Foreign Language		3
Foreign Language		3
UNIV 1101 Jag Tracks 1		1
UNIV 2101 Jag Tracks 2		1
ENGL 3101 or EDCI 3101 Jag Tracks 3		1
ENGL 4101 or EDCI 4101 Jag Tracks 4		1

**\*\*\*Completion of this Degree Requires Admission to the Educator Preparation Program (EPP)\*\*\***

Completion of 45 hours; ENGL 1301, ENGL 1302, MATH 1314 or MATH 1332, HIST 1301, HIST 1302, SPCH 1315, and 2 Life & Physical Sciences all with a 'C' or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
 45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE  
 (30 ADVANCED HOURS FROM TAMUSA FOR RESIDENCY)

<b>MAJOR REQUIRED COURSES</b>	<b>36 SCH</b>	
<b>2.75 overall GPA for major</b>		
<b>'C' or higher required in ENGL courses</b>	GRD	SCH
ENGL 2370 Intro to English Studies (Yr 2 Sem 1)		3
ENGL 3312 Intro to Rhetoric or ENGL 3315 Intro to Critical Theory		3
ENGL 3331 Intersectional Shakespeare (Yr 3 Sem 2)		3
ENGL 3303 Professional Editing or ENGL 3317 Grammar and Style		3
ENGL 4312 Intro to Composition Studies		3
ENGL 4386 African American Lit or ENGL 4388 Latinx Lit		3
ENGL 4392 Teaching English (Yr 3 or 4)		3
<b>Group One (choose 1) Year 3 Sem 1</b>		
ENGL 3322, 3325, or 3327: Medieval Lit, Early Modern Lit, 18 <sup>th</sup> Century Lit		3
<b>Group Two (choose 1) Year 3 Sem 2</b>		
ENGL 3342, 3344, or 3346: Romantic Lit, Victorian Lit, 20 <sup>th</sup> & 21 <sup>st</sup> Century British Lit		3
<b>Group Three (Choose 1) Year 3 Sem 1</b>		
ENGL 3362 or 3363: Early American Lit, American Romanticism		3
<b>Group four (choose 1) Year 3 Sems 1&amp;2</b>		
ENGL 3364 or 3366: 1865 to Progressive Era, 20 <sup>th</sup> & 21 <sup>st</sup> Century America Lit		3
<b>Group Five (choose 1)</b>		
ENGL 3300, 3320, 3376, 4301, 4310, 4330, or 4340, 4370, 4372, 4375, 4395, 4398: Spec Topics in Writ, Writ in the Humanities, Mythology, Adv Tech Writ, Linguistics, Topics in Creative Writ, Research Methods in Rhetoric and Comp (co-req 4341), Special Topics, Major Authors, Women's Lit, Adv Visual Studies, Senior Seminar		3
<b>TEACHER CERTIFICATION REQUIRED COURSES</b>		
<b>2.75 overall GPA</b>	<b>29 SCH</b>	
	GRD	SCH
EDCI 1301 Intro to Teaching		3
EDCI 3303 Development & Behavior		3
EDSE 3345 Survey of Exceptional Children		3
EDCI 4311 Teaching & Peda for MS & Sec		3
EDCI 3358 Classroom Management		3
EDCI 3357 English/ LA Methods		3
EDRG 4325 Disciplinary & Content Area Lit		3
EDFR 3110 Field Lab Residency I		1
EDFR 3120 Field Lab Residency II		1
EDFR 4623 Secondary Clinical Teaching		6
<b>**Unpaid semester at A&amp;M-SA**</b>		
<b>ELECTIVES</b>		
As needed to complete 120 credit hours for degree and 36 upper-division credit hours		
Recommended courses for teacher cert	GRD	SCH
EDRG 3389 Teaching Rdg in Inter/Mid Sch		3

# BACHELOR OF ARTS IN HISTORY

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
Mathematics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Pub Speaking		3
HIST 2321 World Civilization I		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>19 SCH</b>	
Preferably one language, maximum of 2 languages; conversational language will not count	Grd	SCH
Foreign Language		3
HIST 2322 World Civilization II		3
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
HIST 3101 Jaguar Tracks 3: History		1
HIST 4101 Jaguar Tracks 4: History		1

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE  
 (30 ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

<b>MAJOR (REQUIRED) COURSES</b>	<b>36 SCH</b>	
<b>2.0 overall GPA for major</b>	Grd	SCH
<b>ESSENTIALS OF THE MAJOR (9 SCH)</b>		
HIST 2310 Writing History		3
HIST 3301 Introduction to Historical Analysis		3
HIST 4301 Methods of Historical Research Course should be taken during the semester the student intends to graduate.		3
<b>GLOBAL CULTURAL LITERACY (6 SCH)</b>		
ONE OF: HIST 2312 OR 2348 OR 2361		3
ONE OF: HIST 2313 OR 2314 OR 2351 OR 2352 OR 2358		3
<b>FOCUSED SURVEYS (9 SCH)</b>		
THREE OF THE FOLLOWING: HIST 2301 OR 3311 OR 3312 OR 3315 OR 3316 OR 3318 OR 3330 OR 3331 OR 3334 OR 3335 OR 3336 OR 3356		9
<b>THEMATIC CONCENTRATIONS (12 SCH)</b>		
Students choose TWO courses from TWO of the following lists. HIST 4370 may be taken twice for credit in place of two of the courses listed below. A course can only count for one category even if it is listed more than once.		
<b>GLOBAL/BORDERLANDS HISTORY</b> TWO OF: HIST 4311 OR 4347 OR 4363 OR 4364		6
<b>POLITICAL, ECONOMIC, MILITARY HISTORY</b> TWO OF: HIST 4311 OR 4317 OR 4342 OR 4363		6
<b>SOCIAL, CULTURAL, GENDER HISTORY</b> TWO OF: HIST 4313 OR 4319 OR 4340 OR 4360 OR 4366 OR 4364		6
<b>MINOR</b>		
<b>2.0 overall GPA</b>	<b>18 SCH</b>	
<b>--A minimum of 10 upper-division credit hours required. Actual number of hours depends on the minor selected</b>		
	Grd	SCH
<b>ELECTIVES</b>		
As needed to complete 120 credit hours required	Grd	SCH

# BACHELOR OF ARTS IN HISTORY WITH HISTORY TEACHER CERTIFICATION

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra or MATH 1332 Contemporary Mathematics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences (See Required Support Courses)		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Pub Speaking		3
HIST 2321 World Civilization I		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>13 SCH</b>	
Preferably one language; conversational language will not count	Grd	SCH
Foreign Language		3
Foreign Language		3
HIST 2322 World Civilization II		3
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
HIST 3101 or EDCI 3101 Jaguar Tracks 3		1
HIST 4101 or EDCI 4101 Jaguar Tracks 4		1

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

**120 CREDIT HOURS REQUIRED FOR DEGREE**

36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE  
(30 ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

**\*\*\*Completion of this Degree Requires Admission to the Educator Preparation Program (EPP)\*\*\***

Students who do not meet teacher preparation and certification requirements may be required to switch to a non-certification degree program.

<b>MAJOR (REQUIRED) COURSES</b>	<b>36 SCH</b>	
<b>2.75 overall GPA for major</b>		
'C' or higher required in HIST courses	Grd	SCH
<b>ESSENTIALS OF THE MAJOR (9 SCH)</b>		
HIST 2310 Writing History		3
HIST 3301 Introduction to Historical Analysis		3
HIST 4301 Methods of Historical Research <i>Taken during the semester prior to graduation</i>		3
<b>GLOBAL CULTURAL LITERACY (6 SCH)</b>		
ONE OF: HIST 2312 OR 2348 OR 2361		3
ONE OF: HIST 2313 OR 2314 OR 2351 OR 2352 OR 2358		3
<b>FOCUSED SURVEYS (9 SCH)</b>		
HIST 2301 Texas History		3
TWO OF THE FOLLOWING: 3311 OR 3312 OR 3315 OR 3316 OR 3318 OR 3330 OR 3331 OR 3334 OR 3335 OR 3336 OR 3356		6
<b>THEMATIC CONCENTRATIONS (12 SCH)</b>		
Students choose TWO courses from TWO of the following lists. HIST 4370 may be taken twice for credit in place of two of the courses listed below. A course can only count for one category even if it is listed more than once.		
<b>GLOBAL/BORDERLANDS HISTORY</b>		
TWO OF: HIST 4311 OR 4347 OR 4363 OR 4364		6
<b>POLITICAL, ECONOMIC, MILITARY HISTORY</b>		
TWO OF: HIST 4311 OR 4317 OR 4342 OR 4363		6
<b>SOCIAL, CULTURAL, GENDER HISTORY</b>		
TWO OF: HIST 4313 OR 4319 OR 4340 OR 4360 OR 4366 OR 4364		6
<b>TEACHER CERTIFICATION REQUIRED COURSES</b>		
<b>2.75 overall GPA</b>	<b>29 SCH</b>	
'C' or higher required in EDXX courses	Grd	SCH
EDCI 3303 Knowledge of Pedag & Assmt		3
EDSE 3345 Survey of Exceptional Children		3
EDCI 4311 Tch & Pedagogy for Mid/Sec Tchr		3
EDCI 3358 Classroom Management		3
EDCI 4309 Legal & Ethical Issues in Educ		3
EDCI 3359 Social Studies Methods		3
EDRG 4325 Disciplinary & Content Area Lit		3
EDFR 3110 Field Lab Residency I		1
EDFR 3120 Field Lab Residency II		1
EDFR 4623 Secondary Clinical Teaching <b>**Unpaid semester at A&amp;M-SA**</b>		6
<b>ELECTIVES (As needed to complete 120 hrs.)</b>		
	Grd	SCH

Completion of 45 hours; ENGL 1301, ENGL 1302, MATH 1314 or MATH 1332, HIST 1301, HIST 1302, SPCH 1315, and 2 Life & Physical Sciences all with a 'C' or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

# BACHELOR OF ARTS IN HISTORY W/ TEACHER CERT., SOCIAL STUDIES

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra or MATH 1332 Contemporary Mathematics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
GEOG 1301 Physical Geography		3
GEOL 1301 Earth Science I		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
ECON 2301 Macroeconomics		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Pub Speaking		3
HIST 2321 World Civilization I		3
<b>REQUIRED SUPPORT COURSES</b>		
		<b>13 SCH</b>
Preferably one language; conversational language will not count	Grd	SCH
Foreign Language		3
Foreign Language		3
HIST 2322 World Civilization II		3
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
HIST 3101 or EDCI 3101 Jaguar Tracks 3		1
HIST 4101 or EDCI 4101 Jaguar Tracks 4		1

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

**123 CREDIT HOURS REQUIRED FOR DEGREE**

36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE  
(30 ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

\*\*\*Completion of this Degree Requires Admission to the Educator Preparation Program (EPP)\*\*\*

Completion of 45 hours; ENGL 1301, ENGL 1302, MATH 1314 or MATH 1332, HIST 1301, HIST 1302, GOVT 2305, GOVT 2306, ECON 2301 and 2 Life & Physical Sciences all with a 'C' or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics; and an official degree plan on file.

Students who do not meet teacher preparation and certification requirements may be required to switch to a non-certification program.

<b>MAJOR (REQUIRED) COURSES</b>	<b>27 SCH</b>	
<b>2.75 overall GPA for major</b>		
'C' or higher required in HIST courses	Grd	SCH
<b>ESSENTIALS OF THE MAJOR (9 SCH)</b>		
HIST 2310 Writing History		3
HIST 3301 Introduction to Historical Analysis		3
HIST 4301 Methods of Historical Research <i>Taken during the semester prior to graduation</i>		3
<b>GLOBAL CULTURAL LITERACY (6 SCH)</b>		
ONE OF: HIST 2312 OR 2348 OR 2361		3
ONE OF: HIST 2313 OR 2314 OR 2351 OR 2352 OR 2358		3
<b>FOCUSED SURVEYS (6 SCH)</b>		
TWO OF THE FOLLOWING: HIST 2301 or 3311 OR 3312 OR 3315 OR 3316 OR 3318 OR 3330 OR 3331 OR 3334 OR 3335 OR 3336 OR 3356		6
<b>THEMATIC CONCENTRATIONS (6 SCH)</b>		
Students choose TWO courses from ONE of the following lists. HIST 4370 may be taken twice for credit in place of two of the courses listed below.		
<b>GLOBAL/BORDERLANDS HISTORY</b> TWO OF: HIST 4311 OR 4347 OR 4363 OR 4364		6
<b>POLITICAL, ECONOMIC, MILITARY HISTORY</b> TWO OF: HIST 4311 OR 4317 OR 4342 OR 4363		
<b>SOCIAL, CULTURAL, GENDER HISTORY</b> TWO OF: HIST 4313 OR 4319 OR 4340 OR 4360 OR 4366 OR 4364		
<b>SOCIAL STUDIES COMPOSITE</b>		
		<b>12 SCH</b>
'C' or higher required	Grd	SCH
GEOG 1303 World Geography		3
GEOG 3331 United States and Canada		3
POLS 3311/3312/3313 (choose 1)		3
POLS 3311/3312/3313 (choose 1)		3
<b>TEACHER CERTIFICATION REQUIRED COURSES</b>		
		<b>29 SCH</b>
<b>2.75 overall GPA</b>		
'C' or higher required in EDXX courses	Grd	SCH
EDCI 3303 Knowledge of Pedag & Assmt		3
EDSE 3345 Survey of Exceptional Children		3
EDCI 4311 Tch & Pedagogy for Mid/Sec Tchr		3
EDCI 3358 Classroom Management		3
EDCI 4309 Legal & Ethical Issues in Educ		3
EDCI 3359 Social Studies Methods		3
EDRG 4325 Disciplinary & Content Area Lit		3
EDFR 3110 Field Lab Residency I		1
EDFR 3120 Field Lab Residency II		1
EDFR 4623 Secondary Clinical Teaching **Unpaid semester at A&M-SA**		6
<b>ELECTIVES</b>		
As needed to complete 120 credit hours required	Grd	SCH

# BACHELOR OF ARTS IN MATHEMATICS

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH		MAJOR (REQUIRED) COURSES		35-36 SCH	
		Grd	SCH	2.5 overall GPA for major		Grd	SCH
<b>(010) COMMUNICATION</b>							
ENGL 1301	Composition I		3	MATH 2113	Calculus I Lab		1
ENGL 1302	Composition II OR ENGL 2311 Technical Writing		3	MATH 2314	Calculus II and MATH 2114 Calculus II Lab		4
<b>(020) MATHEMATICS</b>							
MATH 2313	Calculus I		3	MATH 3320	Differential Equations		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>							
PHYS 2325, CHEM 1311, or BIOL 1306	(See Required Support Courses)		3	MATH 3325	Mathematical Proofs		3
PHYS 2326, CHEM 1312, or BIOL 1307	(See Required Support Courses)		3	MATH 3370	Discrete Mathematics		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>							
Lang/Phil/Culture			3	MATH 3340	Linear Algebra OR MATH 4341 Linear Algebra & Matrix Theory		3
<b>(050) CREATIVE ARTS</b>							
Creative Arts			3	MATH 3415	Calculus III OR MATH 4370 Vector Analysis		3-4
<b>(060) AMERICAN HISTORY</b>							
American History			3	MATH 4303	Statistical Methods		3
American History			3	MATH 4321	Real Variables		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>							
Government/Political Science			3	MATH 4340	Modern Algebra		3
Government/Political Science			3	MATH ADV	elective		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>							
Social & Behavioral Sciences			3	MATH ADV	elective		3
<b>(090) COMPONENT AREA OPTION</b>							
SPCH 1315 or SPCH 1318			3	<b>MINOR</b>			
Component Option Course from Approved List excluding MATH 13XX courses.			3	2.0 overall GPA		18 SCH	
<b>REQUIRED SUPPORT COURSES</b>				16 SCH		--A minimum of 6 upper-division credit hours required. Actual number of hours depends on the minor selected	
Must be one language; conversational language will not count		Grd	SCH			Grd	SCH
Foreign Language I			3				
Foreign Language II	second part of Foreign Language I		3				
CSCI 1336	Programming Fundamentals		3				
CSCI 1136	Programming Fundamentals Lab		1				
PHYS 2125, CHEM 1111, or BIOL 1106	(Lab: to be taken concurrently with PHYS 2325, CHEM 1311, or BIOL 1306)		1				
PHYS 2126, CHEM 1112, or BIOL 1107	(Lab: to be taken concurrently with PHYS 2326, CHEM 1312, or BIOL 1307)		1				
UNIV 1101	Jaguar Tracks 1		1	<b>ELECTIVES</b>			
UNIV 2101	Jaguar Tracks 2		1	As needed to complete 120 credit hours required		Grd	SCH
STEM 3101	Jaguar Tracks 3		1				
STEM 4101	Jaguar Tracks 4		1				

**120 CREDIT HOURS REQUIRED FOR DEGREE**

36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE  
(30 ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

COMPLETION OF THIS DEGREE PLAN REQUIRES THAT STUDENTS HAVE AN OVERALL 2.5 GPA IN UPPER LEVEL COURSES WITH AT MOST TWO Ds.



# BACHELOR OF SCIENCE IN MATHEMATICS WITH TEACHER CERTIFICATION

2019-2020 Degree Plan

CORE CURRICULUM	42 SCH	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II OR ENGL 2311 Technical Writing		3
<b>(020) MATHEMATICS</b>		
Math 2313 Calculus I		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
PHYS 2325 University Physics I (See Required Support Courses)		3
PHYS 2326 University Physics II (See Required Support Courses)		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
Social & Behavioral Sciences		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 or SPCH 1318		3
MATH 2312 Precalculus OR Course from List not previously used to satisfy a core component area requirement.		3
<b>REQUIRED SUPPORT COURSES</b>		
	10 SCH	
	Grd	SCH
PHYS 2125 University Physics I Lab (Must be taken concurrently with PHYS 2325)		1
PHYS 2126 University Physics I Lab (Must be taken concurrently with PHYS 2326)		1
CSCI 1336 Programming Fundamentals		3
CSCI 1136 Programming Fundamentals Lab		1
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
STEM 3101 or EDCI 3101 Jaguar Tracks 3		1
STEM 4101 or EDCI 4101 Jaguar Tracks 4		1

MAJOR (REQUIRED) COURSES		35-36 SCH	
2.75 overall GPA for major			
'C' or higher required in MATH courses		Grd	SCH
MATH 2113 Calculus I Lab			1
MATH 2314 Calculus II and MATH 2114 Calculus II Lab			4
MATH 3320 Differential Equations			3
MATH 3325 Mathematical Proofs			3
MATH 3340 Linear Algebra OR MATH 4341 Linear Algebra & Matrix Theory			3
MATH 3360 Modern Geometry			3
MATH 3370 Discrete Mathematics			3
MATH 3415 Calculus III OR MATH 4370 Vector Analysis			3-4
MATH 4303 Statistical Methods			3
MATH 4321 Real Variables			3
MATH 4340 Modern Algebra			3
MATH 4350 Probability			3
<b>TEACHER CERTIFICATION REQUIRED COURSES</b>		<b>29 SCH</b>	
2.75 overall GPA			
'C' or higher required in EDXX courses		Grd	SCH
EDCI 3303 Knowledge of Pedag & Assessment			3
EDSE 3345 Survey of Exceptional Children			3
EDCI 4311 Tch & Pedagogy for Mid/Sec Tchr			3
EDCI 3358 Classroom Management			3
EDCI 4309 Legal & Ethical Issues			3
EDCI 4357 Math Methods-Middle & Secondary			3
EDRG 4325 Disciplinary & Content Area Lit.			3
EDFR 3110 Field Lab Residency I			1
EDFR 3120 Field Lab Residency II			1
EDFR 4623 Secondary Clinical Teaching **Unpaid semester at A&M-SA**			6
<b>ELECTIVES</b>			
As needed to complete 120 credit hours required			
<i>Recommended courses for teacher certification</i>		Grd	SCH
EDRG 3389 Teach Reading in Inter and Mid School			3

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE  
(30 ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

**\*\*\*Completion of this Degree Requires Admission to the Educator Preparation Program (EPP)\*\*\***

Students who do not meet teacher preparation and certification requirements may be required to switch to a non-certification degree program.

Completion of 45 hours; ENGL 1301, ENGL 2311, at least MATH 1314, an additional math course, HIST 1301, HIST 1302, SPCH 1315 or SPCH 1318 and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

# BACHELOR OF ARTS IN POLITICAL SCIENCE

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1342 Introductory Statistics		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
ECON 2301 Macroeconomics		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Public Speaking		3
GEOG 1303 World Geography		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>19 SCH</b>	
Preferably one language, maximum of 2 languages; conversational language will not count	Grd	SCH
Foreign Language		3
ECON 2302 Microeconomics or POLS Adv. elective		3
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
SSCI 3101 Jaguar Tracks 3 Social Science		1
SSCI 4101 Jaguar Tracks 4 Social Science		1

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

### 121 CREDIT HOURS REQUIRED FOR DEGREE

36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE  
(30 UPPER-DIVISION HOURS FROM A&M-SA FOR RESIDENCY)

<b>MAJOR (REQUIRED) COURSES</b>	<b>27 SCH</b>	
<b>2.0 overall GPA for major</b>	Grd	SCH
Choose any 2 of the following 3:		6
POLS 3311 Congress		
POLS 3312 The Executive		
POLS 3313 The Judiciary		
POLS 3302 Research and Analysis		3
POLS 3321 or POLS 3322 Political Theory		3
POLS 3341 International Relations		3
POLS 3351 Comparative Politics		3
POLS 3000-4000 electives		9
<b>MAJOR (REQUIRED) COURSE ELECTIVES MAY TAKE ONE (1) OF THREE (3) FORMS:</b>		
<b>Option 1: General Studies</b>		
	Grd	SCH
POLS adv. elective.		3
POLS adv. elective.		3
POLS adv. elective.		3
<b>Option 2: Pre-Law</b>		
POLS 4331 Con Law I		3
POLS 4332 Con Law II		3
POLS 4343 International Law		3
<b>Option 3: International Studies</b>		
POLS 4320 Terrorism and Political Violence		3
POLS 4342 International Organizations		3
POLS 4343 International Law		3
<b>MINOR</b>		
<b>2.0 overall GPA for minor</b>	<b>18 SCH</b>	
<b>--A minimum of 10 upper-division credit hours required.</b>		
	Grd	SCH

**Note:** The above pre-formulated tracks are suggestions intended to help guide students in the selection of courses that will best meet their career objectives. Students are not obligated to follow a track entirely and are not required to commit to a particular track once started.

# BACHELOR OF ARTS IN PSYCHOLOGY

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH		MAJOR (REQUIRED) COURSES		33 SCH		
		Grd	SCH	2.0 overall GPA for major		Grd	SCH	
<b>(010) COMMUNICATION</b>								
ENGL 1301	Composition I		3	PSYC 2301	General Psych (Meets Social Behavioral Sciences Requirement for Core Curriculum)		0	
ENGL 1302	or ENGL 2311		3	PSYC 2202	The Psychology Major		2	
<b>(020) MATHEMATICS</b>								
MATH 1314	College Algebra		3	PSYC 2385	Writing In Psychology		3	
<b>(030) LIFE and PHYSICAL SCIENCES</b>								
BIOL 1306	General Biology I		3	PSYC 2388	Research Stat I		3	
BIOL 1307	General Biology II.		3	PSYC 3488	Research Stat II		4	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>				<b>Capstone: Choose 1</b>				
Lang/Phil/Culture			3	PSYC 4388	Research Stat III			
<b>(050) CREATIVE ARTS</b>				<b>Choose one course from 5 of the 6 following areas</b>				
Creative Arts			3	<b>Development:</b>			<b>15</b>	
<b>(060) AMERICAN HISTORY</b>				<b>PSYC 3327 Lifespan Development</b>				
American History			3	<b>Learning and Cognition:</b>				
American History			3	PSYC 3304	Learning			
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>				PSYC 4310 Cognition				
Government/Political Science			3	PSYC 4328 Perception				
Government/Political Science			3	<b>Biological Bases of Behavior:</b>				
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>				PSYC 3315 Health Psychology				
PSYC 2301	General Psych		3	PSYC 3316 Physiological Psychology				
<b>(090) COMPONENT AREA OPTION</b>				PSYC 4325 Abnormal				
PHIL 1301	Introduction to Philosophy		3	<b>Social/Personality:</b>				
Select course from BA PSYC Approved List (See Required Support Courses)			3	PSYC 3305 Social Psychology				
<b>REQUIRED SUPPORT COURSES</b>			<b>12 SCH</b>		<b>Applied Psychology:</b>			
UNIV 1101	Jaguar Tracks 1		1	PSYC 3360	Psychology of Work			
UNIV 2101	Jaguar Tracks 2		1	PSYC 4335	Clinical			
STEM 3101	Jaguar Tracks 3		1	PSYC 4309	Assessment			
STEM 4101	Jaguar Tracks 4		1	PSYC 4352	Forensic			
BIOL 1106	General Biology I lab		1	PSYC 4344	Military			
BIOL 1107	General Biology II lab		1	PSYC 4370	Psychology and Law			
<b>Foreign Language</b>				<b>Experiential Learning in Psychology:</b>				
<b>Foreign Language</b>				PSYC 4355 Internship in Psychology				
<b>Foreign Language</b>				PSYC 4351 Directed Research				
<b>Select one of the following:</b>				<b>Choose one PSYC Elective</b>				
ARTS 1301 MUSI 1306, GEOG 1303, ECON 2301, 2302, ENGL 2331, 2345, GOVT 2304 SPAN 2320 SPCH 1318				Upper division PSYC elective				
				MINOR (Required)				
				2.0 overall GPA				
				--A minimum of 10 upper-division credit hours required.				
				<b>OR ELECTIVES</b>				
				--As needed to complete 120 credit hours required. At least 6 hours of electives must be upper division if minor is not selected.				
						Grd	SCH	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

C MINIMUM REQUIRED IN PSYC 2301, 2202, 2385, 2388, 3488, CAPSTONE CLASS (PSYC 4333 OR 4388) AND MATH 1314 AND LIFE/PHYS SCIENCE COURSES

**120 CREDIT HOURS REQUIRED FOR DEGREE**

36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

# BACHELOR OF SCIENCE IN PSYCHOLOGY

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II OR ENGL 2311 Technical Writing		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
Life & Physical Science (See Required Support Courses)		3
Life & Physical Science (See Required Support Courses)		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
PSYC 2301 General Psych		3
<b>(090) COMPONENT AREA OPTION</b>		
Component Option Course from Approved List		3
Select course from BS PSYC Approved List (See required support courses)		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>4 SCH</b>	
	Grd	SCH
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
STEM 3101 Jaguar Tracks 3		1
STEM 4101 Jaguar Tracks 4		1
BIOL 1306/1106 General Biology I w/lab or CHEM 1311/1111 Gen Chem I with lab or PHYS 1301/1101 Gen Phys I with lab or BIOL 2401 Human Anat and Phys I with lab (Lecture Meets Life & Physical Science requirement and lab meets 1hr for component are in Core Curriculum.)		0/1
BIOL 1307/1107 General Biology II w/lab or CHEM 1312/1112 Gen Chem II with lab or PHYS 1302/1102 Gen Phys II with lab or BIOL 2402 Human Anat and Phys II with lab (Lecture Meets Life & Physical Science requirement and lab meets 1hr for component are in Core Curriculum.)		0/1
Select one of the following: MATH 1316, 2312, 1342, PHYS 1302, 1302, CHEM 1311, 1312, GEOL 1301, 1302, BIOL 1306, 1307		

**120 CREDIT HOURS REQUIRED FOR DEGREE**

36 UPPER-DIVISION CREDIT HOURS REQUIRED FOR DEGREE (30 ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

<b>MAJOR (REQUIRED) COURSES</b>	<b>36 SCH</b>	
<b>2.0 overall GPA for major</b>	Grd	SCH
PSYC 2301 General Psych (Meets Social Behavioral Sciences Requirement for Core Curriculum)		0
PSYC 2202 The Psychology Major		2
PSYC 2385 Writing for Psychology		3
PSYC 2388 Research Stat I		3
PSYC 3488/3088 Research Stat II		4
<b>Capstone: Choose 1</b>		
PSYC 4388 Research Stat III		
PSYC 4333 History and Systems		
<b>Choose one course from 5 of the 6 following areas</b>		
<b>Development:</b>		15
PSYC 3327 Lifespan Development		
<b>Learning and Cognition:</b>		
PSYC 3304 Learning		
PSYC 4310 Cognition		
PSYC 4328 Perception		
<b>Biological Bases of Behavior:</b>		
PSYC 3316 Physiological Psychology		
PSYC 4325 Abnormal		
PSYC 3315 Health		
<b>Social/Personality:</b>		
PSYC 3305 Social Psychology		
PSYC 3365 Personality		
<b>Applied Psychology:</b>		
PSYC 3360 Industrial/ Organizational		
PSYC 4335 Clinical		
PSYC 4309 Assessment		
PSYC 4352 Forensic		
PSYC 4344 Military		
PSYC 4370 Psych and Law		
<b>Experiential Learning in Psychology:</b>		
PSYC 4355 Internship in Psychology		
PSYC 4351 Directed Research		
<b>Choose two PSYC Electives (6 SCH must be upper division)</b>		
Upper Division PSYC Elective		3
Upper Division PSYC Elective		3
<b>MINOR (Optional)</b>		
<b>2.0 overall GPA</b>		18 SCH
<b>--A minimum of 10 upper-division credit hours required.</b>		
<b>OR ELECTIVES</b>		
<b>--At least 10 hours of electives must be upper division if minor is not selected</b>		
	Grd	SCH

C MINIMUM REQUIRED IN PSYC 2301, 2202, 2385, 2388, 3488, CAPSTONE CLASS (PSYC 4333 OR 4388) AND MATH 1314 AND LIFE/PHYS SCIENCE COURSES





## BACHELOR OF SCIENCE WATER RESOURCES SCIENCE & TECHNOLOGY

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II OR ENGL 2311 Technical Writing		3
<b>(020) MATHEMATICS</b>		
MATH 1314 or 1316 or 2312 or 2313		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
CHEM 1311 General Chemistry I		3
CHEM 1312 General Chemistry II		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCES</b>		
ECON 2301 Principles of Macroeconomics		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Public Speaking		3
MATH 1342 Introductory Statistics		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>21 SCH</b>	
	Grd	SCH
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
STEM 3101 Jaguar Tracks 3		1
STEM 4101 Jaguar Tracks 4		1
BIOL 1306 General Biology I		3
BIOL 1106 General Biology I Lab		1
BIOL 1307 General Biology II		3
BIOL 1107 General Biology II Lab		1
CHEM 1111 General Chemistry I laboratory		1
CHEM 1112 General Chemistry II laboratory		1
PHYS 1301 General Physics I		3
GEOL 1301 Earth Sciences I		3
GEOL 1101 Earth Sciences I Lab		1

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

<b>MAJOR (REQUIRED) COURSES</b>	<b>35 SCH</b>	
	Grd	SCH
<b>2.0 overall GPA for major</b>		
WATR 1301 Intro to Water Treatment		3
WATR 1302 Intro to Wastewater Treatment		3
CHEM 2371 Water and Wastewater Chemistry,		3
CHEM 2171 Water and Wastewater Chemistry Lab		1
POLS 3315 Water Laws, Rules and Policy		3
GEOL 3331 Hydrology		3
WATR 3320 Pollutants in Environmental Systems		3
WATR 3325 Aquatic Systems Science		3
WATR 3330 Green Systems for Wastewater Management		3
WATR 3340 Water Resources Science and Technology Internship, or WATR 4315 Advanced Wastewater Recycling Systems		3
WATR 4191 Senior Seminar		1
WATR 4310 Desalination and Emerging Technologies		3
WATR 4330 Water Management and Field Investigations		3
***Note: students intent on graduate school should take the suggested courses listed as electives		
<b>ELECTIVES REQUIRED COURSES</b>		<b>22 SCH</b>
<b>*As needed to complete 120 credit total hours. Must include 9 hours of upper division courses.</b>		
	Grd	SCH
GEOL 1302 Earth Sciences II		3
GEOL 1102 Earth Sciences II Lab		1
PHYS 1101 General Physics I Lab		1
PHYS 1302 General Physics II		3
PHYS 1102 General Physics II Lab		1
MATH 2313 Calculus I		3
BIOL 2421 General Microbiology		4
BIOL 3407 Ecology		4
CHEM 3331 Quantitative Analytics		3
CHEM 4332 Instrumental Analytics		3

**120 credit hours required for degree**  
 36 advanced credit hours required for degree  
 25% of courses must be taken at A&M-SA for degree

## **ARMY RESERVE OFFICER TRAINING CORPS (ROTC)**

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*Mr. Jacky Howard, APMS TAMUSA Army ROTC | Patriots' Casa, Suite 202H | (210)784-117*

The US Army maintains a Reserve Officer Training Corps (ROTC) program hosted at University of Texas at San Antonio. Four-year and two-year programs are available to students at Texas A&M University-San Antonio.

### **FOUR-YEAR PROGRAM**

The Basic Course, usually pursued concurrently with the freshman and sophomore years, is voluntary for students who are physically qualified for military training. There is no obligation incurred by non-scholarship cadets.

Veterans who have served on active duty for a period of over one year and who have received an honorable discharge, or High School students that have completed 4 years of JROTC may be granted credit for the basic course with concurrence of the Professor of Military Science.

The Advanced Course may be pursued by students who are physically qualified and have met the standards prescribed by the Professor of Military Science in scholastic achievements and demonstrated leadership. Cadets are normally enrolled in the Advanced Course during their Junior and Senior Year or Graduate students pursuing a Master Degree. They are required to attend a four-week United States Army Cadet Command Advance Camp the summer following their junior year. Upon satisfactory completion of Advance Camp and the academic work required for a degree, students are commissioned as Second Lieutenants in the United States Regular Army, the Army Reserves, or the Army National Guard.

### **TWO-YEAR PROGRAM**

In addition to the standard four-year course outlined above, UTSA Military Science Department and Texas A&M University-San Antonio offers a two-year program. Veterans who have served on active duty for a period of over one year and who have received an honorable discharge, or high school students that have completed 4 years of JROTC are eligible to enroll. The two-year program is also available to those who did not have or take the opportunity to complete the normal a Military Branch Basic Training Course or attend 4 years of JROTC. In order to enroll in the Advanced Course, a student must successfully complete four weeks of leadership training, provided at the United States Army Cadet Command Basic Camp during the summer months prior to beginning their junior year or their first year in graduate school. If students desire to take advantage of this opportunity, they should communicate directly with the Professor of Military Science no later than March 1 of the year proceeding the last two years at Texas A&M University-San Antonio. Those students seeking a master's degree are eligible to participate in the two-year program.

### **SCHOLARSHIPS AND REMUNERATION**

The Department of the Army offers 4, 3, and 2 year competitive scholarship assistance to qualifying ROTC students. This assistance consists of payment up to \$25,000 a year to cover tuition and fees, and a \$1,200.00 a year book allotment, plus a grant to the ROTC cadet of \$300.00 to \$500.00 a month during the period of enrollment (not to exceed 40 months). The student needs NOT to be enrolled in the ROTC program prior to competing for a scholarship. Students interested in competing for scholarship assistance under this program should contact the Army ROTC Enrollment Officer.

Formally enrolled Advanced Course Students, who are not under the scholarship program, will be given a grant at the rate announced annually by the Secretary of the Army (currently this rate is \$450.00 to \$500.00 per month) not to exceed twenty months. During Advance Camp, all students are paid at the rate of one half of the base pay per month of a second lieutenant in lieu of subsistence allowance.

### **UNIFORM AND EQUIPMENT**

All uniforms, textbooks and other equipment will be issued to students enrolled in Army ROTC courses. Students are responsible for maintenance and upkeep of all items issued to them.

### **ROTC COURSES**

- MSCI 1301/1001: Introduction to the Army and Critical Thinking and Lab
- MSCI 1302/1002: Adaptive Leadership and Professional Competence and Lab
- MSCI 2301/2001 Leadership and Decision Making and Lab
- MSCI 2302/2002 Army Doctrine and Team Development and Lab
- MSCI 3301/3001 Training Management and Warfighting Functions and Lab
- MSCI 3302/3002 Applied Leadership in Small Unit Operations and Lab
- MSPF 3131 Military Physical Fitness
- MSCI 3330 American Military History
- MSCI 4301/4001 The Army Officer and Lab
- MSCI 4302/4002 Company Grade Leadership and Lab
- MSCI 4303/4003 Practical Leadership and Lab

## **BACHELOR OF APPLIED ARTS AND SCIENCES (BAAS PROGRAM)**

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The purpose of the Bachelor of Applied Arts and Sciences (B.A.A.S.) is to offer students with formal training in a vocational-technical studies area the opportunity to obtain a baccalaureate degree without the significant loss of credits that normally occurs when pursuing a traditional degree. This program is especially appropriate for graduates of an Associate of Applied Science program. The degree is designed to afford both academic and professional depth to individuals who possess recognized competence in an occupational or technical field. It is designed to offer flexibility that will permit tailoring the program to the student's background and educational objectives.

### **BAAS DEGREE REQUIREMENTS**

The student must complete a baccalaureate degree plan (120 semester hours minimum) consisting of 36 hours in residence and transfer credit which includes the following:

1. **General Education, Prerequisites and Electives** (Minimum of 42 semester hours)  
This component is made up of freshman and sophomore-level courses which meet each of the criteria identified by the university as important aspects of a general education listed in the General Education Requirements.
2. **Area of Specialization** (18-42 semester hours)  
Credits toward the area of specialization may be earned from regionally accredited junior or community colleges and vocational or technical schools; credits may also be earned through armed forces training when that work can be equated to college credit. Specialization hours must be completed prior to enrollment in a BAAS degree plan.
3. **Professional Development** (36 semester hours)  
The courses taken in this area are to be chosen to provide academic depth and breadth to the area of specialization and, in addition, afford substantive developmental knowledge in the student's professional career goals. The component focuses on areas of learning directly related to upward mobility and further extends a student's knowledge, skill and expertise. The professional development sequence of 36 semester hours will be selected from Business, Criminology, Early Childhood Education (non-certification), Fire and Emergency Services Administration, Healthcare Services Administration, Information Technology, Interdisciplinary Studies (non-certification), Psychology, or Sociology. The professional sequence will be tailored to each student's needs.

Candidates for the BAAS degree must complete a minimum of 36 hours in residence.

Students who choose the business emphasis of the BAAS degree must meet the same lower-division (field of study) course requirements as students pursuing the BBA degree.

### **PEACE OFFICERS**

Peace officers in the state of Texas wishing to pursue a BAAS degree and who do not have previous college vocational/technical training may use their T-COLE academic hours to qualify them for the Bachelor of Applied Arts and Sciences degrees. The hours utilized in the en bloc credits area of the degree will be determined by the number of T-COLE academic hours divided by 50, with the maximum allowable being 18 semester credit hours of en bloc credits.

### **FIREFIGHTERS**

Firefighters in the state of Texas wishing to pursue a BAAS degree and who hold Texas Commission of Fire Protection (TCFP) firefighter certification and/or State Firefighters' and Fire Marshals' Association (SFFMA) master firefighter certification may use their TCFP/SFFMA/TEEX certification as en bloc credits to qualify them for the Bachelor of Applied Arts and Sciences degrees. The hours utilized in the en bloc credit area of the degree will be determined by the number of held certifications. Determination of credit hours using certifications will follow the WECM guidelines, with the maximum allowable being 42 semester credit hours of en bloc credits.









# BACHELOR OF APPLIED ARTS & SCIENCES FIRE AND EMERGENCY SERVICES ADMINISTRATION- HOMELAND SECURITY CONCENTRATION

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 or ENGL 2311		3	
<b>(020) MATHEMATICS</b>			
MATH 1332 Contemporary Math		3	
<b>(030) LIFE AND PHYSICAL SCIENCES</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
Social & Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
Component Option Course from Approved List		3	
Component Option Course from Approved List		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>4 SCH</b>	
	Grd	SCH	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
FESA 3101 Jaguar Tracks III Applied Writing		1	
FESA 4101 Jaguar Tracks IV		1	
<b>TECHNICAL/VOCATIONAL CREDITS</b>		<b>18-42 SCH</b>	
<i>En bloc credits must be taken in the field of Fire or Emergency Services or closely related area.</i>		Grd	SCH

EMPHASIS AREA		36 SCH	
<i>All courses below must be taken at A&amp;M-SA</i>			
	Grd	SCH	
FESA 3330 Pol and Legal Fnd for the Fire Service		3	
FESA 3334 Pers Mgmt for Fire and Emer Serv		3	
FESA 3338 Comm Risk Red for Fire and Emer		3	
FESA 4314 Public Safety Leadership and Ethics for the Fire Service		3	
FESA 4366 Analyzing Public Policy in Relation to Fire and Emergency Services		3	
FESA 4318 Terr, WMD and Homeland SecThreats		3	
<b>Concentration (Homeland Security)</b>			
<b>Complete six courses from the list below:</b>			
FESA 3350 Intro to Fund of Homeland Security		3	
FESA 3352 Homeland Sec & Emer Mgmt Practices		3	
FESA 3356 Business Continuity: Understanding Disaster Response and Recovery		3	
FESA 4360 Homeland Sec Law Pol and Practices		3	
FESA 4362 Intro to Critical Infra & Key Resources		3	
FESA 4364 Intro to Cyber Security for Public Safety		3	
FESA 3358 Exercise Design and Evaluation for Fire, EMS, and Emergency Managers		3	
FESA 4368 Introduction to Unmanned Aerial Devices for Fire and EMS		3	
<b>ELECTIVES</b>			
As needed to complete 120 credit hours required	Grd	SCH	
<b>TOTALS</b>			
<b>Total General Education Hours (42)</b>			
<b>Technical/Vocational/JAG Tracks Hours (18-42)</b>			
<b>Total Emphasis Hours (36)</b>			
<b>Electives</b>			
<b>Total Semester hours:</b>			<b>120</b>

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- THE 36 UPPER-DIVISION HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

# BACHELOR OF APPLIED ARTS & SCIENCES INFORMATION TECHNOLOGY CONCENTRATION

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1301 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 1342 Introductory Statistics		3	
<b>(030) LIFE AND PHYSICAL SCIENCES</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
Social & Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
MATH 1314 College Algebra		3	
Component Option Course from Approved List		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	Grd	SCH	
CSCI 1336 Programming Fundamentals I		3	
CSCI 1337 Programming Fundamentals II		3	
CSCI 1136 Programming Fundamentals I Laboratory		1	
CSCI 1137 Programming Fundamentals II Laboratory		1	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
CISA 3101 Jaguar Tracks III Computer Information Sys		1	
CISA 4101 Jaguar Tracks IV Computer Information Sys		1	
<b>TECHNICAL/VOCATIONAL CREDITS</b>		<b>18-42 SCH</b>	
<i>En bloc credits must be taken in the field of Information Technology area.</i>	Grd	SCH	

*IT EMPHASIS AREA		36 SCH	
<i>All courses below must be taken at A&amp;M-SA</i>			
	Grd	SCH	
BCOM 3304 Business Communication		3	
CISA 2354 COBOL Programming, 3309 Scripting Languages, or 3335 ABAP SAP Programming		3	
CISA 3351 Database Design and SQL		3	
CISA 3356 Systems Analysis and Design		3	
CISA 2306 Computer Networks		3	
CISA 3321 Information Security		3	
CISA 4358 Senior Project & Seminar		3	
Upper Division CISA or CSCI Course		3	
Upper Division CISA or CSCI Course		3	
Upper Division CISA or CSCI Course		3	
Upper Division CISA or CSCI Course		3	
Upper-Division CISA Course or Business Elective		3	
<b>ELECTIVES</b>			
As needed to complete 120 credit hours required	Grd	SCH	

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- THE 36 UPPER-DIVISION HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- MUST RECEIVE A GRADE OF "C" OR BETTER IN ALL MATH, CSCI, AND CISA COURSES AND THEIR ASSOCIATED PREREQUISITES FOR SATISFACTORY PASSING GRADE.
- A MINIMUM AVERAGE GPA OF 2.25 MUST BE MAINTAINED IN ALL CISA & CSCI CORE AND ELECTIVE COURSES TO REMAIN IN PROGRAM. APPLIES TO TRANSFER COURSES ALSO.
- ACADEMIC COURSES CANNOT BE COUNTED TOWARDS TECHNICAL/VOCATIONAL CREDITS.
- TECHNICAL/VOCATIONAL CREDITS FROM NON-APPROVED COLLEGES REQUIRES DEPT CHAIR AND DEAN APPROVAL.
- ACADEMIC OR TECHNICAL/VOCATIONAL CREDITS TRANSFERRED AS SUBSTITUTION COURSES MUST BE COMPLETED WITHIN PREVIOUS FIVE YEARS OF ADMISSION TO A&M-SA

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

# BACHELOR OF APPLIED ARTS & SCIENCES INFORMATION TECHNOLOGY/INFORMATION ASSURANCE AND SECURITY CONCENTRATION

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3
<b>(020) MATHEMATICS</b>		
MATH 1342 Introductory Statistics		3
<b>(030) LIFE AND PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>		
Language /Philosophy/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>		
Social & Behavioral Science		3
<b>(090) COMPONENT AREA OPTION</b>		
MATH 1314 College Algebra		3
Component Option Course from Approved List		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>Grd</b>	<b>SCH</b>
CSCI 1336 Programming Fundamentals I		3
CSCI 1337 Programming Fundamentals II		3
CSCI 1136 Programming Fundamentals I Laboratory		1
CSCI 1137 Programming Fundamentals II Laboratory		1
UNIV 1101 Jaguar Tracks I		1
UNIV 2101 Jaguar Tracks II		1
CISA 3101 Jaguar Tracks III Computer Information Sys		1
CISA 4101 Jaguar Tracks IV Computer Information Sys		1
<b>TECHNICAL/VOCATIONAL CREDITS</b>		
	<b>Grd</b>	<b>SCH</b>
<i>En bloc credits must be taken in the field of Information Technology area.</i>		

<b>*IT EMPHASIS AREA</b>	<b>36 SCH</b>	
<b>All courses below must be taken at A&amp;M-SA</b>		
	<b>Grd</b>	<b>SCH</b>
BCOM 3304 Business Communication		3
CISA 2309 Scripting Languages		3
CISA 3351 Database Design and SQL		3
CISA 3356 Systems Analysis and Design		3
CISA 2306 Computer Networks		3
CISA 3321 Information Security		3
CISA 4358 Senior Project and Seminar		3
<b>Information Assurance &amp; Security Electives</b>		
CISA 3325 Network Security		3
CISA 4323 Computer Forensics		3
CISA 4324 Risk Analysis		3
CISA 4326 Security and Operation Practicum		3
Upper Division CISA or CSCI Course		3
<b>ELECTIVES</b>		
<b>--As needed to complete 120 credit hours required</b>		
	<b>Grd</b>	<b>SCH</b>

- **120 CREDIT HOURS REQUIRED FOR DEGREE**
- THE 36 UPPER-DIVISION HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- MUST RECEIVE A GRADE OF "C" OR BETTER IN ALL MATH, CSCI, AND CISA COURSES AND THEIR ASSOCIATED PREREQUISITES FOR SATISFACTORY PASSING GRADE.
- A MINIMUM AVERAGE GPA OF 2.25 MUST BE MAINTAINED IN ALL CISA & CSCI CORE AND ELECTIVE COURSES TO REMAIN IN PROGRAM. APPLIES TO TRANSFER COURSES ALSO.
- ACADEMIC COURSES CANNOT BE COUNTED TOWARDS TECHNICAL/VOCATIONAL CREDITS.
- TECHNICAL/VOCATIONAL CREDITS FROM NON-APPROVED COLLEGES REQUIRES DEPT CHAIR AND DEAN APPROVAL.
- ACADEMIC OR TECHNICAL/VOCATIONAL CREDITS TRANSFERRED AS SUBSTITUTION COURSES MUST BE COMPLETED WITHIN PREVIOUS FIVE YEARS OF ADMISSION TO A&M-SA

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

# BACHELOR OF APPLIED ARTS & SCIENCES INTERDISCIPLINARY STUDIES CONCENTRATION (NON-CERTIFICATION)

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 College Algebra		3	
<b>(030) LIFE and PHYSICAL SCIENCES</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL &amp; BEHAVIORAL SCIENCE</b>			
Social & Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 or SPCH 1318		3	
Component Option Course from Approved List		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>4 SCH</b>	
	Grd	SCH	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
*BUAD 3101, EDCI 3101, EDKN 3101, or SSCI 3101 Jaguar Tracks III		1	
*BUAD 4101, EDCI 4101, EDKN 4101, or SSCI 4101 Jaguar Tracks IV		1	
*Jag Track III and IV (3101 and 4101) must be in the same discipline and must be from one of the student's selected concentrations.			
<b>TECHNICAL/VOCATIONAL CREDITS</b>		<b>18-42 SCH</b>	
<i>En bloc Credits</i>			

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Major Courses (Taken at A&M-SA)		36 SCH	
36 Advanced Hours at A&M-SA. Choose 3 of the 4 tracks listed.			
	Grd	SCH	
<b>Option 1: EC, SPED, Bilingual- choose 4</b>			
EDEC 3307 Child & Adol Dev as it Imp Instr		3	
EDEC 4314 Cognitive Development		3	
EDEC 4315 Social/Emotional Dev		3	
EDSE 3345 Survey of Exceptional Individuals		3	
EDEC 4316 Assessment of Young Children		3	
EDBL 3315 Second Lang Acq/Lit. dev for ELL		3	
EDRG 3315 Foundations for Early Literacy		3	
EDBL 3320 Test and Measurement in Bil/ESL		3	
EDBL 3311 Foundations of Bilingual Education		3	
<b>Option 2: Health and Wellness- Select 4</b>			
EDHL 3331 Consumer Health		3	
EDHL 3345 Drug Education		3	
EDKN 4324 Exercise & Chronic Disease/Disab.		3	
EDHL 3383 Women's Health		3	
EDHL 4342 Program Planning for Hlth Promotion		3	
EDKN 4320 EC Motor Dev/Motor Learning		3	
<b>Option 3: Business Management- Select 4</b>			
CISA 3358 Management Information Systems		3	
MGMT 3311 Principles of Management		3	
MKTG 3311 Principles of Marketing		3	
BCOM 3304 Business Communication		3	
ACCT 3301 Accounting for Non-Accountants		3	
BLAW 3341 Business Law		3	
<b>Option 4: Psychology &amp; Sociology-Select 4</b>			
PSYC 3305/SOCI 3311 Social Psychology		3	
PSYC 3321 Intimate Relationships		3	
PSYC 3322 Gender Issues		3	
SOCI 4362 Race and Ethnicity		3	
SOCI 3370 Introduction to Human Services		3	
PSYC 3324 Cross-cultural Psychology		3	
<b>ELECTIVES</b>			
<b>-As needed to complete 120 credit hours</b>	Grd	SCH	

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- THE 36 UPPER-DIVISION HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

# COLLEGE OF BUSINESS

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## **ADMINISTRATIVE OFFICERS**

Dr. Tracy Hurley, *Dean of the College of Business*

Dr. Syed Harun, *Department Chair, Department of Accounting and Finance*

Dr. Amy Lewis, *Department Chair, Department of Management and Marketing*

Dr. Akhtar Lodgher, *Department Chair, Department of Computing and Cybersecurity*

Cynthia Kinney-Lee, *Office Manager*

Central Academic Building, Suite 439 | (210)784-2202

## **MISSION STATEMENT**

The mission of the College of Business at Texas A&M University-San Antonio is to prepare a diverse student population for professional-level, global business careers in a student-centered learning environment through the dynamic use of technology, development and application of practitioner-oriented research and a shared commitment to community involvement with local businesses and organizations.

## **ACADEMIC ADVISING**

Each undergraduate business student is **required** to meet with their academic advisor upon entering the university. It is then recommended that students should meet with their advisor on a regular basis to discuss their academic progress, scheduling of courses and to discuss any questions or concerns they may have. For any questions or to make an appointment, please contact the academic advisors at [Advising.Center@tamusa.edu](mailto:Advising.Center@tamusa.edu) or (210) 784-1407.

## **COURSES OF INSTRUCTION**

There are four components of the Bachelor of Business Administration (B.B.A.) degree: (1) the university's general education component or core curriculum; (2) the lower-division business field of study courses; (3) the common professional component consisting of 3000 and 4000-level business courses required of all business majors; and (4) the courses specific to a major. The typical B.B.A. degree program consists of 120 hours.

## **REQUIREMENTS FOR THE B.B.A. DEGREE**

### **Business Prerequisites**

ACCT 2301, ACCT 2302, ECON 2301, ECON 2302, CISA 1305 (for CISA majors: CSCI 1336/1337), BUAD 2305 and BUAD 2310 are prerequisites for all 3000 and 4000 level business administration courses except BLAW 3341, BCOM 3304, CISA 3358, BUAD 3311, MKTG 3311, MGMT 3311, and MGMT 3325.

### **Upper and Lower Divisions within the College of Business**

Students in upper-level courses within the College of Business are expected to have a basic level of knowledge in specific disciplines in order to be able to successfully synthesize the information they are acquiring. That basic level of knowledge includes the ability to read and write effectively, to think quantitatively and to have a basic understanding of accounting and our economic system. To ensure the competence of students to complete the upper division component successfully, students must take their lower-division courses in the required order and achieve the required minimum grades in those courses.

In order to register for the upper division business courses students must earn a grade of at least “C” in the following courses:

ACCT 2301	ECON 2301
ACCT 2302	ECON 2302
CISA 1305 (For CISA majors: CSCI 1336/1337)	
BUAD 2305	
BUAD 2310	

Additionally, students must have a 2.0 grade point average for the following group of courses:

ENGL 1301	MATH 1314/1324
ENGL 1302	

Students who are completing their last semester of lower-division requirements may take up to 18 hours of upper-level business courses pending acceptance into the Upper Division. Those courses must be chosen from the following:

BLAW 3341	MKTG 3311
BCOM 3304	MGMT 3311
CISA 3358	MGMT 3325
BUAD 3311	

Special situations that may arise with respect to completion of the lower-division course work and sequencing of courses, such as students transferring from other majors within the university and students transferring from other institutions, may be handled on a case-by-case basis by the academic advisor, department chair, and college of business dean.

#### **Communication Skills**

The college requires that all of its majors demonstrate proficient communication skills. Passing BCOM 3304 – Business Communication – with a grade of “C” would demonstrate a minimal level of proficiency. If a student is found deficient in communication in BCOM 3304, the student must retake the course until the required minimal grade is achieved.

#### **Quantitative and Statistical Skills**

The college requires that all of its majors demonstrate proficient quantitative skills. Passing BUAD 2305, BUAD 2310, and BUAD 3360 with a grade of ‘C’ or better would demonstrate a minimum level of proficiency.

If a student is found to be deficient any of these classes, the student must retake the course(s) until the required minimum grade is achieved.

#### **Accounting Majors**

All Accounting majors must receive a grade of “C” or better in ACCT 3302, ACCT 3303, and ACCT 3304. If a student is found deficient in these courses, the student must retake the course(s) until the required minimum grade is achieved. Accounting

majors may not proceed to upper-level accounting classes before these minimum course competencies are achieved. Accounting majors may not take ACCT 3301 for credit.

### **Finance Majors**

All Finance majors must receive a grade of “C” or better in all FINC courses. The student must retake all the course(s) until the required minimum grade is achieved. Finance majors may not proceed to the next course without achieving the minimum grade in the prerequisite course. Academic courses transferred in also must meet the minimum grade criteria. Finance majors may not take FINC 3337 for credit.

### **Computer Science, Computer Information Systems, and BAAS Computing Related Majors**

All Computer Science, Computer Information Systems and students in the computing related BAAS majors must receive a grade of “C” or better in all CSCI, CISA and MATH courses and their associated prerequisites. A minimum average GPA of 2.25 must be maintained in all business core and major courses to remain in the program. If a student is found deficient in these courses, the student must retake the course(s) until the required minimum grade is achieved. Students in these majors may not proceed to the next course without achieving the minimum grade in the pre-requisite course. Academic courses transferred in as CSCI, CISA or MATH courses also must meet the minimum grade criteria, and the minimum average GPA of 2.25 requirement. Academic credits transferred as substitution courses must be completed within the previous five years of admission to A&M-SA.

It is recommended that BBA CIS majors take MATH 1314 because it is a prerequisite of CSCI 1336. While, CSCI 1136 as a co-requisite for CSCI 1336 will be waived for BBA CIS majors, it is strongly recommended that students take the CSCI 1136 lab to ensure they have the necessary hands-on skill needed for CSCI 1336.

### **Business Experiential Learning Class**

Courses that meet the business experiential learning requirement include:

- ACCT 3328, 4191, 3191, 3192
- BUAD 3105, 3110, 3181, 3182, 3191, 3192, 3328, 4129, 4181, 4192, 4191
- CISA 3328, 1136, 1137
- ECON 3328
- FINC 3328, 3191, 3182, 4191, 4192
- MGMT 3328, 3160
- MKTG 3328

### **RESIDENCY REQUIREMENT**

A minimum of 25% of total semester hours and 30 upper division hours required for the BBA degree must be completed at A&M-SA to satisfy residency requirement. At least half of the required 30 upper division hours must be the in the major courses. See individual computing related degree programs for specific residency requirements.

### **Grade Point Average for Graduation**

A minimum grade point average of 2.0 is required on: (1) all course work attempted including course work attempted at other universities, (2) all course work attempted at Texas A&M University-San Antonio, (3) all courses in business administration and (4) all courses in the professional field for each major.

BBA CIS majors: see requirement under above heading. Note that 50 of the 60 hours listed under Business Core and major courses must be completed at A&M-SA.

**MGMT 4370 and BUAD 4170 are required and must be taken at Texas A&M University-San Antonio during the final semester.**

## CERTIFICATES

The College of Business offers students the opportunity to gain marketable skills Certificates in Digital Marketing, Human Resources Management, Cyber Security, Entrepreneurship, International Business, Supply Chain Management, Healthcare Services Administration, Taxation, and Investing. The courses in these certificates can be taken by any undergraduate student enrolled at Texas A&M University-San Antonio and count as electives according to degree plan requirements. All certificates will only be awarded in conjunction with a baccalaureate degree.

The Digital Marketing Certificate includes the following four courses (12 SCH):

- MKTG 3311 Principles of Marketing (non-business majors only) or MKTG 3340 Consumer Behavior
- MKTG 3343 Digital Marketing
- MKTG 3345 Visual Media Marketing
- MKTG 3363 Social Media Marketing

The Human Resources Management Certificate includes the following five courses (13 SCH):

- MGMT 3325 HR Policies & Procedure
- MGMT 4342 Training & Development
- MGMT 4341 Compensation & Benefits Management
- MGMT 4344 Organizational Leadership
- MGMT 3160 Team Work

The Cyber Security Certificate includes the following five courses (13 SCH):

- CSCI 1336 Programming Fundamentals I (3 hours)
- CSCI 1136 Programming Fundamentals I Laboratory (1 hour)
- CSCI 3321 Cyber Security or CISA 3321 Information Security (3 hours)
- CISA 2306 Computer Networks (3 hours)
- CISA 4323 (Computer Forensics) or CISA 4324 (Security Risk Analysis) (3 hours)

The Entrepreneurship certificate has 2 required courses and 2 electives (12 SCH):

- MGMT 3370 Principles of Entrepreneurship
- MGMT 3371 Entrepreneurship: Ideation to Launch
- Selection of two or more from the Entrepreneurship Courses:
  - MGMT 4371 Entrepreneurship: The Business Plan
  - MGMT 4379 Entrepreneurship: Special Topics (may be repeated for credit with different topic)
  - MGMT 4372 Entrepreneurship: Creativity and Innovation
  - MGMT 4373 Entrepreneurship: Experiential Start-Up

The International Business certificate has 2 required courses and 2 electives (12 SCH):

- MGMT 4331 Global Management
- MGMT 4363 International Marketing
- Selection of two or more from the International courses:
  - ECON 3334 International Economics
  - BLAW 4334 International Business Law
  - FINC 4342 International Finance
  - Any special Topics International Course Offerings

The Supply Chain Management Certificate has 3 required courses and 1 elective (12 SCH):

- MGMT 4314 Global Logistics
- MGMT 4330 Global Purchasing and Supply Management
- MGMT 4323 TQM and Lean Management
- Selection of one or more from the following courses:
  - MGMT 3320 Supply Chain and Operation MGMT (non-business students only)
  - MGMT 4311 Project Management
  - MGMT 4361 Negotiation in the Business Environment
  - MGMT 4381 Optimization Methods for Business Analytics
  - MGMT 4334 Current Topics in SCM

The Healthcare Administration certificate has 1 required course and 3 electives (12 SCH):

- HCSA 3311 Principles of Healthcare Administration
- Selection of three or more from the Healthcare Administration Courses:
  - HCSA 3337 Financial Mgmt of Healthcare Orgs
  - HCSA 3341 Healthcare Policy and Law
  - HCSA 4321 Healthcare Information Systems
  - HCSA 4322 Managed Care and Health Insurance
  - HCSA 4323 Quality Mgmt in Healthcare Orgs
  - HCSA 4325 Healthcare Ethics and Compliance

The Taxation Certificate requires the following five courses (13 SCH):

- ACCT 3301 Acct for non-ACCT Majors or ACCT 3302 Intermediate Accounting I
- ACCT 3314 Cost Managerial Accounting
- ACCT/FINC 3338 Financial Statement Analysis
- ACCT/BUAD 3309 Introduction to Federal Individual Income Tax
- ACCT/BUAD 4191 Experiential Learning-Income Tax

The Investing Certificate requires the following five courses (13 SCH):

- FINC 3337 Finance for non-FINC majors or FINC 3310 Corporate Finance
- FINC 4341 Financial Markets and Institutions
- FINC 4331 Investments
- FINC 4332 Portfolio Management
- FINC 4191 Experiential :Learning – Investing

### **MINORS AND DEGREE PROGRAM REQUIREMENTS**

The minors offered by the College of Business include Business Administration, Computer Information Systems, and Computer Science. Consult with your academic advisor to determine the optimum number of lower-division and upper-division courses within the chosen minor.

**Business Administration:** The following courses are required: ACCT 2301(Principles of Financial Accounting), MGMT 3311 (Principles of Management), MKTG 3311 (Principles of Marketing) and 9 additional hours of your choice to be chosen from 3000 or 4000 level College of Business Administration courses for which the prerequisites have been met or instructor approval has been granted. An additional 9 hours of courses must be chosen from:

- BCOM 3304: Business Communications
- BLAW 3341: Business Law
- BUAD 3311: Business and Society
- CISA 3358: Management Information Systems

- MGMT 3325: Human Resource Management
- MKTG 3343: Digital Marketing

**Computer Information Systems (Available only to non-business majors):** The following courses are required: CISA 1305 (Business Computer Applications), CSCI 1336 (Programming Fundamentals I), CSCI 1136 (Programming Fundamentals I Lab), CISA 3356 (Database Design and SQL), CISA 3358 (Management Information Systems), and four approved advanced CISA courses.

**Computer Science (Available to any major):** The computer science minor consists of the following required courses (18 hours):

- CSCI 1136 Programming Fundamentals I Lab
- CSCI 1137 Programming Fundamentals II Lab
- CSCI 1336 Programming Fundamentals I
- CSCI 1337 Programming Fundamentals II
- CSCI 2436 Programming Fundamentals III
- CSCI 3304 Database systems
- 3 Additional semester credit hours from an upper-division CSCI course or approved CISA elective

# BACHELOR OF BUSINESS ADMINISTRATION IN ACCOUNTING

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH 1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy /Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	Grd	SCH	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Princ of Financial Acct		3	
ACCT 2302 Princ of Managerial Acct		3	
CISA 1305 Business Computer Appl		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	Grd	SCH	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BUAD 3101 Jaguar Tracks III Business		1	
BUAD 4101 Jaguar Tracks IV Business		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Business Core (Upper Level)		34 SCH	
2.0		Grd	SCH
ACCT 3302 Intermediate Accounting I			3
BCOM 3304 Business Communications			3
BLAW 3341 Business Law			3
BUAD 2310 Quantitative Skills for Business			3
BUAD 3360 Business Statistics II			3
CISA 3358 Management Information Systems			3
FINC 3310 Corporate Finance			3
MGMT 3311 Principles Of Management			3
MGMT 3320 Supply Chain & Ops Mgmt			3
MKTG 3311 Principles Of Marketing			3
MGMT 4370 Decision and Business Policy **			3
BUAD 4170 Business Capstone Lab **			1
<b>MAJOR Courses</b>		<b>27 SCH</b>	
<b>2.0 GPA required</b>		Grd	SCH
ACCT 3303 Intermediate Acct II			3
ACCT 3304 Intermediate Acct III			3
ACCT 3314 Cost Managerial Acct			3
ACCT 3305 Fund of Federal Income Tax			3
ACCT 4311 Auditing I			3
ACCT 4314 Business Combinations			3
ACCT 4342 Business Law for Accountants			3
ACCT Elective (Advanced)			3
ACCT Elective (Advanced)			3
<b>Experiential Learning Requirement</b>		<b>1 SCH</b>	
		Grd	SCH
ACCT Experiential Learning			1
<b>TOTAL HOURS</b>		<b>120</b>	
<b>2.0 GPA Required</b>			

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\*To be completed in your last semester

## BACHELOR OF BUSINESS ADMINISTRATION IN COMPUTER INFORMATION SYSTEMS

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language /Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fundamentals of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Principles of Financial Acct		3	
ACCT 2302 Principles of Managerial Acct		3	
CSCI 1336 Programming Fundamentals I		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
CISA 3101 Jaguar Tracks III Computer Information Sys		1	
CISA 4101 Jaguar Tracks IV Computer Information Sys		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>		<b>Grd</b>	<b>SCH</b>
ACCT 3301 Acct for non-Acct Majors			3
BCOM 3304 Business Communications			3
BLAW 3341 Business Law			3
BUAD 2310 Quantitative Skills for Business			3
BUAD 3360 Business Statistics II			3
CISA 3356 Systems Analysis and Design			3
FINC 3337 Business Finance			3
MGMT 3311 Principles of Management			3
MGMT 3320 Supply Chain and Ops Mgmt			3
MKTG 3311 Principles of Marketing			3
BUAD 4170 Business Capstone Lab			1
MGMT 4370 MGMT Decision and Business Policy (to be completed in your last semester only)			3
<b>Major Courses</b>		<b>27 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
CISA 3351 Database Design and SQL			3
CISA 1337 Programming Fundamentals II			3
CISA 3309 Scripting Languages			3
CISA 2306 Computer Networks			3
CISA 4358 Senior Seminar & Project			3
CISA 3321 Information Security			3
<b>Major Requirements</b>			
Upper Division CISA Elective			3
Upper Division CISA Elective			3
CISA/Business Elective			3
<b>ELECTIVE</b>		<b>1 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
CSCI 1137 Programming Fundamentals II Lab			1

- **120 CREDIT HOURS REQUIRED FOR DEGREE**
- 50 OF THE 60 HOURS LISTED UNDER BUSINESS CORE AND MAJOR COURSES MUST BE COMPLETED AT A&M-SA.
- MUST RECEIVE A GRADE OF "C" OR BETTER IN ALL MATH, CSCI, AND CISA COURSES AND THEIR ASSOCIATED PREREQUISITES FOR SATISFACTORY PASSING GRADE.
- A MINIMUM AVERAGE GPA OF 2.25 MUST BE MAINTAINED IN ALL CISA & CSCI CORE AND ELECTIVE COURSES TO REMAIN IN PROGRAM. APPLIES TO TRANSFER COURSES ALSO.
- ACADEMIC CREDITS TRANSFERRED AS SUBSTITUTION COURSES MUST BE COMPLETED WITHIN PREVIOUS FIVE YEARS OF ADMISSION TO A&M-SA

# BACHELOR OF BUSINESS ADMINISTRATION IN COMPUTER INFORMATION SYSTEMS INFORMATION ASSURANCE AND SECURITY CONCENTRATION

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH 1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fundamentals of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Principles of Financial Acct		3	
ACCT 2302 Principles of Managerial Acct		3	
CSCI 1336 Programming Fundamentals I		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
CISA 3101 Jaguar Tracks III Computer Information Sys		1	
CISA 4101 Jaguar Tracks IV Computer Information Sys		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>			
	<b>Grd</b>	<b>SCH</b>	
ACCT 3301 Acct for non-Acct Majors		3	
BCOM 3304 Business Communications		3	
BLAW 3341 Business Law		3	
BUAD 2310 Quantitative Skills for Business		3	
BUAD 3360 Business Statistics II		3	
CISA 3356 Systems Analysis and Design		3	
FINC 3337 Business Finance		3	
MGMT 3311 Principles of Management		3	
MGMT 3320 Supply Chain and Ops Management		3	
MKTG 3311 Principles of Marketing		3	
MGMT 4370 MGMT Decision and Business Policy (to be completed in your last semester only)		3	
<b>Major Courses</b>		<b>30 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
CISA 3351 Database Design and SQL		3	
CSCI 1337 Programming Fundamentals II		3	
CISA 3309 Scripting Languages		3	
CISA 4326 Security & Ops Practicum		3	
CISA 3321 Information Security		3	
<b>Concentration Requirements</b>			
CISA 4323 Computer Forensics		3	
CISA 4324 Security Risk Analysis		3	
CISA 2306 Computer Networks		3	
CISA 3325 Network Security		3	
<b>ELECTIVE</b>		<b>1 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
CSCI 1137 Programming Fundamentals II Lab		1	

- **120 CREDIT HOURS REQUIRED FOR DEGREE**
- 50 OF THE 60 HOURS LISTED UNDER BUSINESS CORE AND MAJOR COURSES MUST BE COMPLETED AT A&M-SA.
- MUST RECEIVE A GRADE OF "C" OR BETTER IN ALL MATH, CSCI, AND CISA COURSES AND THEIR ASSOCIATED PREREQUISITES FOR SATISFACTORY PASSING GRADE.
- A MINIMUM AVERAGE GPA OF 2.25 MUST BE MAINTAINED IN ALL CISA & CSCI CORE AND ELECTIVE COURSES TO REMAIN IN PROGRAM. APPLIES TO TRANSFER COURSES ALSO.
- ACADEMIC CREDITS TRANSFERRED AS SUBSTITUTION COURSES MUST BE COMPLETED WITHIN PREVIOUS FIVE YEARS OF ADMISSION TO A&M-SA

## BACHELOR OF BUSINESS ADMINISTRATION IN FINANCE

### 2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH 1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy /Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Princ of Financial Acct		3	
ACCT 2302 Princ of Managerial Acct		3	
CISA 1305 Business Computer Appl		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BUAD 3101 Jaguar Tracks III Business		1	
BUAD 4101 Jaguar Tracks IV Business		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

All Finance majors must receive a grade of "C" or better in all FINC courses. Finance majors may not proceed to the next course without achieving the minimum grade in the pre-requisite course. Academic courses transferred in also must meet the minimum grade criteria. Finance majors may not take FINC 3337 for credit.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>		<b>Grd</b>	<b>SCH</b>
ACCT 3302 Intermediate Acct I			3
BCOM 3304 Business Communications			3
BLAW 3341 Business Law			3
BUAD 2310 Quantitative Skills for Business			3
BUAD 3360 Business Statistics II			3
CISA 3358 Management Information Systems			3
FINC 3310 Corporate Finance			3
MGMT 3311 Principles of Management			3
MGMT 3320 Supply Chain and Ops Mgmt			3
MKTG 3311 Principles of Marketing			3
MGMT 4370 Decision and Business Policy**			3
BUAD 4170 Business Capstone Lab**			1
<b>Major Courses</b>		<b>27 SCH</b>	
<b>2.0 GPA required</b>		<b>Grd</b>	<b>SCH</b>
FINC 3338 Financial Statement Analysis			3
FINC 4331 Investments			3
FINC 4336 Financial Mgmt			3
FINC 4342 International Finance			3
FINC Elective (Advanced)			3
FINC Elective (Advanced)			3
FINC Elective (Advanced)			3
FINC Elective (Advanced)			3
<b>Major Requirements</b>		<b>3 SCH</b>	
ECON 3331 Money & Banking			3
<b>ELECTIVE</b>		<b>1 SCH</b>	
		<b>GRD</b>	<b>SCH</b>
FINC Experiential Learning			1

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* to be completed in your last semester

## BACHELOR OF BUSINESS ADMINISTRATION IN GENERAL BUSINESS

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language /Philosophy /Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fundamentals of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Princ of Financial Acct		3	
ACCT 2302 Princ of Managerial Acct		3	
CISA 1305 Business Computer Appl		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BUAD 3101 Jaguar Tracks III Business		1	
BUAD 4101 Jaguar Tracks IV Business		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>			
	<b>Grd</b>	<b>SCH</b>	
ACCT 3301 Acct for non-Acct Majors		3	
BCOM 3304 Business Communications		3	
BLAW 3341 Business Law		3	
BUAD 2310 Quantitative Skills for Business		3	
BUAD 3360 Business Statistics II		3	
CISA 3358 Management Information Systems		3	
FINC 3337 Business Finance		3	
MGMT 3311 Principles Of Management		3	
MGMT 3320 Supply Chain & Ops Mgmt		3	
MKTG 3361 Principles Of Marketing		3	
MGMT 4370 MGMT Decision and Business Policy **		3	
BUAD 4170 Business Capstone Lab**		1	
<b>Multidisciplinary Certificates/ Electives</b>		<b>27 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
Business Certificate		12-13	
Business or Non-business Certificates		6-13	
Business or Non-business Electives (Advanced)		1-10	
<b>ELECTIVE</b>		<b>1 SCH</b>	
	<b>GRD</b>	<b>SCH</b>	
Business Experiential Learning		1	

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* To be taken in your last semester

## BACHELOR OF BUSINESS ADMINISTRATION IN INTERNATIONAL MANAGEMENT

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
<b>ENGL 1301</b> Composition I		<b>3</b>	
<b>ENGL 1302</b> Composition II or <b>ENGL 2311</b> Technical Writing		<b>3</b>	
<b>(020) MATHEMATICS</b>			
<b>MATH 1314</b> or <b>MATH 1324</b>		<b>3</b>	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
<b>Life &amp; Physical Science</b>		<b>3</b>	
<b>Life &amp; Physical Science</b>		<b>3</b>	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
<b>Lang/Phil/Culture</b>		<b>3</b>	
<b>(050) CREATIVE ARTS</b>			
<b>Creative Arts</b>		<b>3</b>	
<b>(060) AMERICAN HISTORY</b>			
<b>American History</b>		<b>3</b>	
<b>American History</b>		<b>3</b>	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
<b>Government/Political Science</b>		<b>3</b>	
<b>Government/Political Science</b>		<b>3</b>	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
<b>ECON 2301</b> Macroeconomics		<b>3</b>	
<b>(090) COMPONENT AREA OPTION</b>			
<b>SPCH 1315</b> Fund of Public Speaking		<b>3</b>	
<b>ECON 2302</b> Microeconomics		<b>3</b>	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>BUAD 2305</b> Business Statistics I		<b>3</b>	
<b>ACCT 2301</b> Princ of Financial Acct		<b>3</b>	
<b>ACCT 2302</b> Princ of Managerial Acct		<b>3</b>	
<b>CISA 1305</b> Business Computer Appl		<b>3</b>	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>UNIV 1101</b> Jaguar Tracks I		<b>1</b>	
<b>UNIV 2101</b> Jaguar Tracks II		<b>1</b>	
<b>BUAD 3101</b> Jaguar Tracks III Business		<b>1</b>	
<b>BUAD 4101</b> Jaguar Tracks IV Business		<b>1</b>	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>			
	<b>Grd</b>	<b>SCH</b>	
<b>ACCT 3301</b> Acct for non-Acct Majors		<b>3</b>	
<b>BCOM 3304</b> Business Communications		<b>3</b>	
<b>BLAW 3341</b> Business Law		<b>3</b>	
<b>BUAD 2310</b> Quantitative Skills for Business		<b>3</b>	
<b>BUAD 3360</b> Business Statistics II		<b>3</b>	
<b>CISA 3358</b> Management Information Systems		<b>3</b>	
<b>FINC 3337</b> Business Finance		<b>3</b>	
<b>MGMT 3311</b> Principles Of Management		<b>3</b>	
<b>MGMT 3320</b> Supply Chain & Ops Mgmt		<b>3</b>	
<b>MKTG 3311</b> Principles Of Marketing		<b>3</b>	
<b>MGMT 4370</b> MGMT Decision and Business Policy **		<b>3</b>	
<b>BUAD 4170</b> Business Capstone Lab**		<b>1</b>	
<b>MAJOR Courses</b>		<b>27 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>MGMT 3325</b> (Human Resource Management)		<b>3</b>	
<b>MGMT 4327</b> (Org Theory & Human Behavior)		<b>3</b>	
<b>MGMT 4331</b> (Global Management)		<b>3</b>	
<b>Major Requirements</b>			
<b>ECON 3334</b> ( International Economics)		<b>3</b>	
<b>BLAW 4344</b> ( International Business Law)		<b>3</b>	
<b>FINC 4342</b> (International Finance)		<b>3</b>	
<b>MKTG 4363</b> ( International Marketing)		<b>3</b>	
<b>Language Requirements</b>			
<b>Foreign Language</b>		<b>3</b>	
<b>Foreign Language</b>		<b>3</b>	
<b>ELECTIVE</b>		<b>1 SCH</b>	
	<b>GRD</b>	<b>SCH</b>	
<b>Business Experiential Learning</b>		<b>1</b>	

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* To be taken in your last semester

## BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
<b>ENGL 1301</b> Composition I		<b>3</b>	
<b>ENGL 1302</b> Composition II or <b>ENGL 2311</b> Technical Writing		<b>3</b>	
<b>(020) MATHEMATICS</b>			
<b>MATH 1314</b> or <b>MATH 1324</b>		<b>3</b>	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
<b>Life &amp; Physical Science</b>		<b>3</b>	
<b>Life &amp; Physical Science</b>		<b>3</b>	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
<b>Language/Philosophy /Culture</b>		<b>3</b>	
<b>(050) CREATIVE ARTS</b>			
<b>Creative Arts</b>		<b>3</b>	
<b>(060) AMERICAN HISTORY</b>			
<b>American History</b>		<b>3</b>	
<b>American History</b>		<b>3</b>	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
<b>Government/Political Science</b>		<b>3</b>	
<b>Government/Political Science</b>		<b>3</b>	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
<b>ECON 2301</b> Macroeconomics		<b>3</b>	
<b>(090) COMPONENT AREA OPTION</b>			
<b>SPCH 1315</b> Fund of Public Speaking		<b>3</b>	
<b>ECON 2302</b> Microeconomics		<b>3</b>	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>BUAD 2305</b> Business Statistics I		<b>3</b>	
<b>ACCT 2301</b> Princ of Financial Acct		<b>3</b>	
<b>ACCT 2302</b> Princ of Managerial Acct		<b>3</b>	
<b>CISA 1305</b> Business Computer Applications		<b>3</b>	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>UNIV 1101</b> Jaguar Tracks I		<b>1</b>	
<b>UNIV 2101</b> Jaguar Tracks II		<b>1</b>	
<b>BUAD 3101</b> Jaguar Tracks III Business		<b>1</b>	
<b>BUAD 4101</b> Jaguar Tracks IV Business		<b>1</b>	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>		<b>Grd</b>	<b>SCH</b>
<b>ACCT 3301</b> Acct for non-Acct Majors			<b>3</b>
<b>BCOM 3304</b> Business Communications			<b>3</b>
<b>BLAW 3341</b> Business Law			<b>3</b>
<b>BUAD 2310</b> Quantitative Skills for Business			<b>3</b>
<b>BUAD 3360</b> Business Statistics II			<b>3</b>
<b>CISA 3358</b> Management Information Systems			<b>3</b>
<b>FINC 3337</b> Business Finance			<b>3</b>
<b>MGMT 3311</b> Principles Of Management			<b>3</b>
<b>MGMT 3320</b> Supply Chain & Ops Mgmt			<b>3</b>
<b>MKTG 3311</b> Principles Of Marketing			<b>3</b>
<b>MGMT 4370</b> MGMT Decision and Business Policy **			<b>3</b>
<b>BUAD 4170</b> Business Capstone Lab**			<b>1</b>
<b>MAJOR Courses</b>		<b>24 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>MGMT 3325</b> (Human Resource Management)			<b>3</b>
<b>MGMT 4327</b> (Org Theory & Human Behavior)			<b>3</b>
<b>MGMT 4331</b> (Global Management)			<b>3</b>
<b>Major Requirements</b>			
<b>MGMT 4323</b> (Total Quality & Lean Management)			<b>3</b>
<b>MGMT 4326</b> (Labor Relations & Collective Bargaining)			<b>3</b>
<b>MGMT 4330</b> (Purchasing & Supply Chain Management)			<b>3</b>
<b>MGMT Elective (Advanced)</b>			<b>3</b>
<b>MGMT Elective (Advanced)</b>			<b>3</b>
<b>ELECTIVE</b>		<b>1 SCH</b>	
	<b>GRD</b>	<b>SCH</b>	
<b>Business Experiential Learning</b>			<b>1</b>

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* To be taken in your last semester

## BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT ENTREPRENEURSHIP CONCENTRATION

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH 1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	Grd	SCH	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Princ of Financial Acct		3	
ACCT 2302 Princ of Managerial Acct		3	
CISA 1305 Business Computer Applications		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	Grd	SCH	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BUAD 3101 Jaguar Tracks III Business		1	
BUAD 4101 Jaguar Tracks IV Business		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Business Core (Upper Level) 2.0 overall GPA for major		34 SCH	
	Grd	SCH	
ACCT 3301 Acct for non-Acct Majors		3	
BCOM 3304 Business Communications		3	
BLAW 3341 Business Law		3	
BUAD 2310 Quantitative Skills for Business		3	
BUAD 3360 Business Statistics II		3	
CISA 3358 Management Information Syst.		3	
FINC 3337 Business Finance		3	
MGMT 3311 Principles Of Management		3	
MGMT 3320 Supply Chain & Ops Mgmt		3	
MKTG 3311 Principles Of Marketing		3	
MGMT 4370 MGMT Decision and Business Policy**		3	
BUAD 4170 Business Capstone Lab**		1	
<b>MAJOR Courses</b>		<b>27 SCH</b>	
	Grd	SCH	
MGMT 3325 Human Resource Mgmt		3	
MGMT 4327 Org Theory & Human Beha		3	
MGMT 4331 Global Management		3	
<b>Concentration Requirements</b>			
MGMT 3370 Entrepreneurship: Principles of Entrepreneurship		3	
MGMT 3371 Entrepreneurship: Ideation to Launch		3	
MGMT 4371 Entrepreneurship: The Business Plan		3	
<b>Choose one class from:</b>			
MGMT 4372 Entrepreneurship: Creativity & Innovation		3	
MGMT 4373 Entrepreneurship: Exp Startup		3	
MGMT 4379 Entrepreneurship: Special Topics in Entrepreneurship		3	
<b>Upper-Level (Advanced) Business Elective</b>		3	
<b>Upper-Level (Advanced) Business Elective</b>		3	
<b>ELECTIVE</b>		<b>1 SCH</b>	
	GRD	SCH	
<b>Business Experiential Learning</b>		1	

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* To be taken in your last semester

# BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT HUMAN RESOURCES CONCENTRATION

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH 1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language /Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	Grd	SCH	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Princ of Financial Acct		3	
ACCT 2302 Princ of Managerial Acct		3	
CISA 1305 Business Computer Applications		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	Grd	SCH	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BUAD 3101 Jaguar Tracks III Business		1	
BUAD 4101 Jaguar Tracks IV Business		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Business Core (Upper Level)		34 SCH	
2.0 overall GPA for major			
	Grd	SCH	
ACCT 3301 Acct for non-Acct Majors		3	
BCOM 3304 Business Communications		3	
BLAW 3341 Business Law		3	
BUAD 2310 Quantitative Skills for Business		3	
BUAD 3360 Business Statistics II		3	
CISA 3358 Management Information Syst.		3	
FINC 3337 Business Finance		3	
MGMT 3311 Principles Of Management		3	
MGMT 3320 Supply Chain & Ops Mgmt		3	
MKTG 3311 Principles Of Marketing		3	
MGMT 4370 MGMT Decision and Business Policy **		3	
BUAD 4170 Business Capstone Lab**		1	
<b>MAJOR Courses</b>		<b>27 SCH</b>	
	Grd	SCH	
MGMT 3325 Human Resource Mgmt		3	
MGMT 4327 Org Theory & Human Beh.		3	
MGMT 4331 Global Management		3	
<b>Concentration Requirements</b>			
MGMT 4341 Compensation & Benefits		3	
MGMT 4342 Training & Development		3	
MGMT 4343 Performance Management		3	
MGMT 4348 Talent Management		3	
MGMT Elective (3323, 3328, 4326, 4345, 4346, or 4347)		3	
MGMT Elective (3323, 3328, 4326, 4345, 4346, or 4347)		3	
MGMT 3323: Employment Law MGMT 3328: Internship in Management MGMT 4326: Labor Relations & Collective Bargaining MGMT 4345: International Human Resources MGMT 4346: Seminar in Human Resources MGMT 4347: HR Info Sys Management			
<b>ELECTIVE</b>		<b>1 SCH</b>	
	GRD	SCH	
Business Experiential Learning		1	

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* To be taken in your last semester

# BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT SUPPLY CHAIN MANAGEMENT CONCENTRATION

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		<b>3</b>	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		<b>3</b>	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH1324		<b>3</b>	
<b>(030) LIFE AND PHYSICAL SCIENCES</b>			
Life & Physical Science		<b>3</b>	
Life & Physical Science		<b>3</b>	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy/Culture		<b>3</b>	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		<b>3</b>	
<b>(060) AMERICAN HISTORY</b>			
American History		<b>3</b>	
American History		<b>3</b>	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		<b>3</b>	
Government/Political Science		<b>3</b>	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		<b>3</b>	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		<b>3</b>	
ECON 2302 Microeconomics		<b>3</b>	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BUAD 2305 Business Statistics I		<b>3</b>	
ACCT 2301 Princ of Financial Acct		<b>3</b>	
ACCT 2302 Princ of Managerial Acct		<b>3</b>	
CISA 1305 Business Computer Appl		<b>3</b>	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		<b>1</b>	
UNIV 2101 Jaguar Tracks II		<b>1</b>	
BUAD 3101 Jaguar Tracks III Business		<b>1</b>	
BUAD 4101 Jaguar Tracks IV Business		<b>1</b>	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>		<b>Grd</b>	<b>SCH</b>
ACCT 3301 Acct for non-Acct Majors			<b>3</b>
BCOM 3304 Business Communications			<b>3</b>
BLAW 3341 Business Law			<b>3</b>
BUAD 2310 Quantitative Skills for Business			<b>3</b>
BUAD 3360 Business Statistics II			<b>3</b>
CISA 3358 Management Information Systems			<b>3</b>
FINC 3337 Business Finance			<b>3</b>
MGMT 3311 Principles Of Management			<b>3</b>
MGMT 3320 Supply Chain & Ops Mgmt			<b>3</b>
MKTG 3311 Principles Of Marketing			<b>3</b>
MGMT 4370 MGMT Decision and Business Policy **			<b>3</b>
BUAD 4170 Business Capstone Lab**			<b>1</b>
<b>MAJOR Courses</b>		<b>27 SCH</b>	
		<b>Grd</b>	<b>SCH</b>
MGMT 3325 Human Resource Mgmt.			<b>3</b>
MGMT 4327 Org Theory & Human Beh.			<b>3</b>
MGMT 4331 International Management			<b>3</b>
<b>Concentration Requirements</b>			
MGMT 4314 Global of Business Logistics			<b>3</b>
MGMT 4323 Total Quality & Lean Management			<b>3</b>
MGMT 4330 Global Purchasing & Supply Chain Management			<b>3</b>
MGMT 4311 Project Management			<b>3</b>
MGMT Elective (3328, 4361, 4381, or 4334)			<b>3</b>
MGMT Elective (3328, 4361, 4381, or 4334)			<b>3</b>
MGMT 3328 Internship			
MGMT 4361 Negotiation in a Business Env			
MGMT 4381 Optimization Methods for Bus Analytics			
MGMT 4334 Current Topics in SCM			
<b>ELECTIVE</b>		<b>1 SCH</b>	
		<b>Grd</b>	<b>SCH</b>
Business Experiential Learning			<b>1</b>

- **120 CREDIT HOURS REQUIRED FOR DEGREE**
- **36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE**
- **30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT**
- **\*\* To be taken in your last semester**

# BACHELOR OF BUSINESS ADMINISTRATION IN MARKETING

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 or MATH1324		3	
<b>(030) LIFE AND PHYSICAL SCIENCE</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
ECON 2301 Macroeconomics		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
ECON 2302 Microeconomics		3	
<b>REQUIRED SUPPORT COURSES</b>		<b>12 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BUAD 2305 Business Statistics I		3	
ACCT 2301 Princ of Financial Acct		3	
ACCT 2302 Princ of Managerial Acct		3	
CISA 1305 Business Computer Appl		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BUAD 3101 Jaguar Tracks III Business		1	
BUAD 4101 Jaguar Tracks IV Business		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

<b>Business Core (Upper Level)</b>		<b>34 SCH</b>	
<b>2.0 overall GPA for major</b>		<b>Grd</b>	<b>SCH</b>
ACCT 3301 Acct for non-Acct Majors			3
BCOM 3304 Business Communications			3
BLAW 3341 Business Law			3
BUAD 2310 Quantitative Skills for Business			3
BUAD 3360 Business Statistics II			3
CISA 3358 Mgmt Information Systems			3
FINC 3337 Business Finance			3
MGMT 3311 Principles Of Management			3
MGMT 3320 Supply Chain & Ops Mgmt			3
MKTG 3311 Principles Of Marketing			3
MGMT 4370 MGMT Decision and Business Policy**			3
BUAD 4170 Business Capstone Lab**			
<b>MAJOR Courses</b>		<b>27 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
MKTG 3340 Consumer Behavior			3
MKTG 3341 Marketing Research			3
MKTG 3342 Integrated Mktg Comm			3
MKTG 3343 Digital Marketing			3
MKTG 4361 Marketing Management ( <i>must be classified as senior standing</i> ) **			3
MKTG 4363 International Marketing			3
<b>MAJOR Requirements</b>			
MKTG Elective (MKTG 3360 Personal Selling is recommended)			3
MKTG Elective			3
MKTG Elective			3
<b>ELECTIVE</b>		<b>1 SCH</b>	
	<b>GRD</b>	<b>SCH</b>	
Business Experiential Learning			1

- 120 CREDIT HOURS REQUIRED FOR DEGREE
- 36 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE
- 30 UPPER-DIVISION HOURS (WITH MINIMUM 15 HOURS IN MAJOR COURSES) AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- \*\* To be taken in your last semester

# BACHELOR OF SCIENCE IN COMPUTER SCIENCE

## 2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 2313 Calculus I		3	
<b>(030) LIFE AND PHYSICAL SCIENCES</b>			
BIOL 1306 or CHEM 1311 or GEOL 1301 or PHYS 1301 or PHYS 2325		3	
BIOL 1307 or CHEM 1312 or GEOL 1302 or PHYS 1302 or PHYS 2326		3	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy /Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
Social and Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
MATH 2314 Calculus II		3	
MATH 1342 Introductory Statistics		3	
MATH 1042 Introductory Statistics Rec.		0	
<b>Departmental Requirements</b>		<b>7 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
BIOL 1106 or CHEM 1111 or GEOL 1101 or PHYS 1101 or PHYS 2125		1	
BIOL 1107 CHEM 1112 or GEOL 1102 or PHYS 1102 or PHYS 2126		1	
MATH 2113 Calculus I Lab		1	
MATH 2114 Calculus II Lab		1	
MATH 3340 Linear Algebra		3	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
CSCI 3101 Jaguar Tracks III Computer Sci		1	
CSCI 4101 Jaguar Tracks IV Computer Sci		1	

<b>Required Support Courses</b>		<b>18 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
CSCI 1136 Programming Fundamentals I Lab		1	
CSCI 1137 Programming Fundamentals II Lab		1	
CSCI 1336 Programming Fundamentals I		3	
CSCI 1337 Programming Fundamentals II		3	
CSCI 2322 Discrete Structures for Computing		3	
CSCI 2325 Computer Organization		3	
CSCI 2436 Programming Fundamentals III		4	
<b>Major Courses</b>		<b>34 SCH</b>	
CSCI 3304 Database Systems		3	
CSCI 3321 Cyber Security or CISA 3321 Information Security		3	
CSCI 3343 Algorithms		3	
CSCI 3344 Computer Architecture		3	
CSCI 3362 Operating Systems		3	
CSCI 3366 Programming Languages		3	
CSCI 4406 Computer Networks		4	
CSCI 4316 Software Engineering I		3	
CSCI 4317 Software Engineering II		3	
CSCI 4321 Computer Security		3	
CSCI 4391 Senior Seminar		3	
<b>Major Electives</b>		<b>15 SCH</b>	
Upper-Division CSCI Elective or Approved CISA Elective		3	
Upper-Division CSCI Elective or Approved CISA Elective		3	
Upper-Division CSCI Elective or Approved CISA Elective		3	
Upper-Division CSCI Elective or Approved CISA Elective		3	
Upper-Division CSCI Elective or Approved CISA Elective		3	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

- **120 CREDIT HOURS REQUIRED FOR DEGREE**

- 30 CSCI UPPER-DIVISION HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT
- MUST COMPLETE AT LEAST 40 HOURS OF MAJOR COURSES AND MAJOR ELECTIVES AT A&M-SA.
- MUST RECEIVE A GRADE OF "C" OR BETTER IN ALL MATH, CSCI, AND CISA COURSES AND THEIR ASSOCIATED PREREQUISITES FOR A SATISFACTORY PASSING GRADE.
- A MINIMUM AVERAGE GPA OF 2.25 MUST BE MAINTAINED IN ALL CISA OR CSCI CORE AND ELECTIVE COURSES TO REMAIN IN PROGRAM. APPLIES TO TRANSFER COURSES ALSO.
- ACADEMIC CREDITS TRANSFERRED AS SUBSTITUTION COURSES MUST BE COMPLETED WITHIN PREVIOUS FIVE YEARS OF ADMISSION TO A&M-SA
- APPROVED UPPER-DIVISION CISA COURSES THAT CAN BE USED AS ELECTIVES FOR MAJORS AND MINORS ARE: CISA 3309, CISA 4323, CISA 4324, CISA 4332.

# BACHELOR OF SCIENCE IN CYBER ENGINEERING TECHNOLOGY

## 2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
<b>ENGL 1301</b> Composition I		<b>3</b>	
<b>ENGL 1302</b> Composition II or <b>ENGL 2311</b> Technical Writing		<b>3</b>	
<b>(020) MATHEMATICS</b>			
<b>MATH 1314</b> College Algebra		<b>3</b>	
<b>(030) LIFE AND PHYSICAL SCIENCES</b>			
<b>PHYS 2325</b> University Physics I		<b>3</b>	
<b>PHYS 2326</b> University Physics II		<b>3</b>	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy /Culture		<b>3</b>	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		<b>3</b>	
<b>(060) AMERICAN HISTORY</b>			
American History		<b>3</b>	
American History		<b>3</b>	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		<b>3</b>	
Government/Political Science		<b>3</b>	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
Social and Behavioral Science		<b>3</b>	
<b>(090) COMPONENT AREA OPTION</b>			
<b>MATH 2312</b> Pre-calculus		<b>3</b>	
<b>MATH 2313</b> Calculus I		<b>3</b>	
<b>Departmental Requirements</b>		<b>7 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>MATH 2314</b> Calculus II or <b>MATH 3340</b> Linear Algebra		<b>3</b>	
<b>MATH 2113</b> Calculus I Lab		<b>1</b>	
<b>MATH 2114</b> Calculus II Lab		<b>1</b>	
<b>PHYS I 2125</b> University Physics I Lab		<b>1</b>	
<b>PHYS II 2126</b> University Physics II Lab		<b>1</b>	
<b>University Requirements</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>UNIV 1101</b> Jaguar Track I		<b>1</b>	
<b>UNIV 2101</b> Jaguar Track II		<b>1</b>	
<b>CSCI 3101</b> Jaguar Track III Computer Science		<b>1</b>	
<b>CSCI 4101</b> Jaguar Track IV Computer Science		<b>1</b>	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

<b>Required Support Courses</b>		<b>18 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>CSCI 1136</b> Programming Fundamentals I Lab		<b>1</b>	
<b>CSCI 1137</b> Programming Fundamentals II Lab		<b>1</b>	
<b>CSCI 1336</b> Programming Fundamentals I		<b>3</b>	
<b>CSCI 1337</b> Programming Fundamentals II		<b>3</b>	
<b>CSCI 2436</b> Programming Fundamentals III		<b>4</b>	
<b>CISA 2306</b> Computer Networks		<b>3</b>	
<b>CSCI 2325</b> Computer Organization		<b>3</b>	
<b>Main Courses</b>		<b>28 SCH</b>	
<b>CSCI 3321</b> Cyber Security		<b>3</b>	
<b>CISA 3325</b> Network Security		<b>3</b>	
<b>CSCI 3344</b> Computer Architecture		<b>3</b>	
<b>CSCI 3351</b> Database Design and SQL		<b>3</b>	
<b>CETE 3370</b> Cloud Computing and Infrastructure		<b>3</b>	
<b>CETE 4375</b> Wireless and Mobile Security		<b>3</b>	
<b>CETE 4380</b> Applied Cryptosystems		<b>3</b>	
<b>CETE 4385</b> Cyber Security Architecture		<b>3</b>	
<b>CETE 4481</b> Penetration Testing Using Python		<b>3</b>	
<b>Prescribed Electives</b>		<b>9 SCH</b>	
<b>Select 9 SCH from the following list:</b>			
<b>CETE 4390</b> Cyber Physical Systems Security		<b>3</b>	
<b>CETE 4392</b> Big Data Analytics and Security		<b>3</b>	
<b>CETE 4394</b> Cyber Intelligence		<b>3</b>	
<b>CETE 4396</b> Internship in Cyber Engineering Technology		<b>3</b>	
<b>Required Business Core Course</b>		<b>12 SCH</b>	
<b>BCOM 3304</b> Business Communication		<b>3</b>	
<b>MGMT 3311</b> Principles of Management		<b>3</b>	
<b>BLAW 3341</b> Business Law		<b>3</b>	
<b>MGMT 4327</b> Organizational Behavior		<b>3</b>	

- **120 CREDIT HOURS REQUIRED FOR DEGREE**

## COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT

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### ADMINISTRATIVE OFFICERS

Dr. Carl Sheperis, *Dean of the College of Education and Human Development*

Dr. Melissa Joswiak, *Department Chair, Department of Educator and Leadership Preparation*

Dr. Suzanne Mudge, *Department Chair, Department of Counseling, Health and Kinesiology*

Dr. Lorrie Webb, *Department Chair, Department of Curriculum and Instruction*

The College of Education & Human Development is committed to serving the needs of the region by preparing qualified professionals to assume positions of responsibility and leadership in a global society. Reflective of this mission, the College of Education & Human Development is dedicated to supporting and retaining quality faculty and staff who nurture and optimize student opportunities while simultaneously pursuing high academic, professional and personal standards that promote student achievement and life-long learning. The College of Education & Human Development serves an ethnically diverse population that comprises the university's student base and seeks to work cooperatively with educators from the surrounding area, education service centers, community colleges, community and business leaders, and professional organizations in promoting excellence in education at all levels. Students are expected to uphold the Texas Educator's Code of Ethics as well as the standards of professional organizations in their fields of study.

The College of Education & Human Development offers the Bachelor of Science in Interdisciplinary Studies, the Bachelor of Science in Kinesiology, and various Master's degrees.

### ACADEMIC ADVISING

Each undergraduate student is assigned a professional advisor upon entering the University. Students meet with their advisor on a scheduled basis to guide their selected plan of study and to discuss questions or concerns.

Students who are interested in changing majors into any of our elementary, middle school, or secondary certification programs are responsible for meeting with an advisor prior to doing so. Advisors have specific information regarding all program options.

**IMPORTANT NOTICE: The following sections provide general information about programs in the College of Education & Human Development. Additional regulations for educator certification may take effect during the years of this catalog and may require changes that could not be foreseen at the time of printing. Changes that become effective in response to rulings by the State Board for Educator Certification, the Texas Education Agency and the Texas Higher Education Coordinating Board may apply to current and prospective students. As the State Board for Educator Certification makes changes in the certification framework, degree plans may be subject to change. Any changes made by the state in interpreting the rulings on educator certification programs in Texas may supersede the requirements of the existing degree plan, certification or deficiency plan, with or without notice in this catalog.**

## **EDUCATOR PREPARATION PROGRAM**

### **The Educator Preparation and Certification**

The Educator Preparation Program (EPP) at Texas A&M University-San Antonio is administered by the College of Education and Human Development. Teacher candidates may choose to work toward certification in the following certification areas:

- Early Childhood through Grade 6 (EC-6)
  - Core Subjects (Grades EC-6)
  - Core Subjects (Grades EC-6) with Bilingual Education
  - Core Subjects (Grades EC-6) with Special Education (Grades EC-12)
  
- Grades 4 through 8 (4-8)
  - Core Subjects (Grades 4-8)
  - Core Subjects (Grades 4-8) with Bilingual Education
  - Core Subjects (Grades 4-8) with Special Education (EC-12)
  
- Secondary Content Areas Grades 7 through 12 (7-12)
  - Mathematics (Grades 7-12)
  - Life Sciences (Grades 7-12)
  - English Language Arts and Reading (Grades 7-12)
  - History (Grades 7-12)
  - Social Studies (Grades 7-12)

\*Special Education (EC-12) certification may be added to any content-specific area listed above.
  
- Early Childhood through 12 (EC-12) Physical Education

The educator preparation field experience program component is divided into two semesters of field residency requiring 30 clock hours of on-campus structured experience and one semester of clinical teaching. Field residency assignments are to be completed in pre-arranged collaborating area schools. Clinical teaching is to be completed during the last semester of study and involves working full days (7 hours) for 16 weeks. Clinical teaching start dates vary by school district; however, it will generally begin a week prior to the fall or spring semester, when University classes begin. Field residency and clinical teaching placements are not offered during the summer sessions.

The Texas Education Agency (TEA) does allow for an extended one-year clinical teaching experience that is sometimes paid; however, opportunities for these are extremely limited. Consult the EPP faculty for additional information.

All coursework for the degree and field residency I and II courses must be successfully completed before the clinical teaching assignment. In addition, all candidates must have successfully passed the TExES state content practice exam in their area of certification in order to be eligible for clinical teaching. Students are encouraged to pass their official TExES state content exams prior to clinical teaching. All-level clinical teaching placements for Physical Education and Special Education candidates may be equally divided between elementary and middle school/ high school during the clinical teaching semester. Clinical teaching placements for Special Education EC-12 candidates may be split between a Special Education placement and their base certificate area.

### **Degree Plans Leading to Certification**

Students pursuing teacher certification should schedule an appointment with an academic advisor to develop their degree/certification plan. Students who break enrollment for more than 12 months will be required to update to the current catalog. Students are encouraged to thoroughly explore degree plans and certification options before selecting a program and certificate to pursue as it is difficult to change to a different degree plan/program once certificate specific coursework has been completed. Students should not expect to change degree plans/programs as such changes will adversely impact the length of time required to graduate.

Changes and course substitutions to the degree plan must be approved by the Department Chair. Changes may also occur when the State Board for Education Certification or the Texas Education Agency mandates changes in the educator preparation program or certification areas.

### **Educator Certification in Texas**

The Educator Preparation Program (EPP) is governed by Texas Administrative Code rules and monitored for quality by the Texas Education Agency (TEA) Division of Educator Standards. The EPP is responsible for implementing current rules and best practices in the preparation of highly effective teacher candidates. The State Board for Educator Certification (SBEC) oversees all aspects of the preparation, certification and standards of conduct of the educator preparation program and all Texas educators.

### **The Initial Standard Certificate**

The initial certificate for beginning teachers may be obtained by completion of an appropriate undergraduate program culminating in a Bachelor's degree. A student seeking initial certification is required to have a minimum overall grade point average (GPA) of 2.75 on all college work attempted plus a minimum 2.75 GPA with no grade lower than a "C" in courses constituting the content area and/or delivery system (Bilingual Education, Early Childhood Education, Special Education, etc.)

In order to be recommended for initial certification, all teacher candidates are required to achieve a passing score on ALL Texas Examinations of Educator Standards (TExES) exams required for the certificate. To meet state requirements, all coursework including field residencies, clinical teaching and degree awarded, must be completed. Candidates are required to pass specific state practice exams according to their area of certification prior to being approved to take the actual TExES exams. Consult the EPP faculty for information regarding specific exam requirements. The Texas Education Agency requires that all educators pass a national criminal background check prior to being issued a Texas certificate; additional background checks may be required throughout an educator's career as required in Texas Education Code (TEC), Chapter 22, Subchapter C.

TAC §227.101(c) A person who is enrolled or planning to enroll in a State Board for Educator Certification-approved educator preparation program or planning to take a certification examination may request a preliminary criminal history evaluation letter regarding the person's potential ineligibility for certification due to a conviction or deferred adjudication for a felony or misdemeanor offense.

### **AREAS AND LEVELS OF CERTIFICATION**

The State Board for Educator Certification (SBEC) has approved content areas and grade levels for certification available in Texas. Standards describing the knowledge and skills that a beginning teacher must demonstrate prior to certification have been developed for each certificate. It is important to be aware that rules, procedures and requirements for initial teacher certification may change during the course of a candidate's program due to changes at the state level, accountability requirements or program enhancement purposes. The Educator Preparation Program (EPP) at Texas A&M-San Antonio is reviewed by an Education Advisory committee composed of community stakeholders which meets twice a year to review program results, goals and improvement activities. For the years covered by this catalog, beginning teachers will be certified under the certification structure described below.

### **Standard Certificates for Grades EC-8<sup>th</sup>**

Texas A&M-San Antonio offers teacher candidates a Bachelor of Science degree with the possibility of earning certification(s) in: Core Subjects (EC-6); Core Subjects (4-8); Special Education (EC-12); and Physical Education (EC-12). Specialized certifications may be added to base certificates to prepare teachers for working within bilingual classrooms and ESL settings.

### **Standard Certificate for Grades 7-12**

The College of Arts & Sciences has various majors offered that lead to teacher certification. For further information, students should contact their Academic Advisor in the College of Arts and Sciences.

### **NON-CERTIFICATION DEGREE PLANS**

#### ***Bachelor of Applied Arts and Sciences in Interdisciplinary Studies (BAAS)***

#### ***Bachelor of Science in Child Development and Bachelor of Science in Kinesiology (Exercise Science & Pre-Physical Therapy concentrations)***

The College of Education & Human Development offers three non-certification undergraduate degree options. The Bachelor of Applied Arts and Sciences (BAAS) is designed for students who would like to pursue areas of study that involve working with local and state community agencies. The Bachelor of Science in Child Development is designed for students who would like to work with young children and families in classroom or community based settings that do not require teacher certification. The Bachelor of Science degree in Kinesiology (Exercise Science/Pre-Physical Therapy) is designed for students wishing to pursue health-, exercise-, physical therapy- or movement-related careers outside of the public school setting. Students should contact their Academic Advisor for more information.

### **EDUCATOR PREPARATION AND CERTIFICATION**

***Important Notice:*** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice in this catalog. Students are required to abide by state rules and best practices which include fingerprint clearance and criminal background check.

***NOTE:*** Prior to clinical teaching and employment as an educator, candidates must undergo a criminal history background check.

***§227.101(c)*** A person who is enrolled or planning to enroll in a State Board for Educator Certification-approved educator preparation program or planning to take a certification examination may request a preliminary criminal history evaluation letter regarding the person's potential ineligibility for certification due to a conviction or deferred adjudication for a felony or misdemeanor offense.

***According to TAC §229.9, all students accepted into an educator preparation program (EPP) are required to pay a \$35 fee. This fee is collected by the EPP and then submitted to the State Board for Educator Certification (SBEC); it is not retained by the university. Students who do not pay this fee will not be admitted into the program. Students will receive written instructions regarding payment of this fee to the business office when they are accepted to the EPP.***

The State Board for Educator Certification (SBEC) has established rules that specify the curriculum requirements for educator preparation programs and the assessment and evaluation of candidates for certification and program improvement. For additional information refer to Texas Administrative Code: **TAC §228.30: Educator Preparation Curriculum** and **TAC §228.40: Assessment and Evaluation of Candidates for Certification and Program Improvement**

*In addition to university admission acceptance, students interested in the certification program must apply and be formally accepted into the Educator Preparation Program. It is expected that students will be monitored throughout their program with the expectation to successfully complete required transition points.*

To be admitted to the Educator Preparation Program students must:

1. Complete all Core Curriculum classes with a C or better. Bilingual education applicants must also document

- intermediate language proficiency.
2. Submit an Educator Preparation Program application during the enrollment period. Application periods occur twice per academic year in September and February. Contact the EPP staff in Madla 212 for additional information.
  3. Have an overall grade point average of at least 2.75 or a 2.75 or better on the last 60 hours. A 2.75 GPA must be maintained to remain in the certification program. Additionally, the student must have a 2.75 GPA in the teaching field content area with no grade lower than a “C” to participate in clinical teaching.
  4. Complete EDED 1301 or EDED 3370 or approved substitute course. Secondary education students (4-8 or 7-12 content area certifications) must also complete 12 hours in content area.
  5. Submit a current copy of Degree Works with all transfer courses listed.
  6. Demonstrate written proficiency in the English language through the submission of a writing sample; the writing sample is completed in conjunction with the application for admission to the EPP.
  7. Participate in an interview to assess personal and professional attributes.
  8. Bilingual Teacher Candidates must successfully complete the BTLPT preparation course prior to attempting the practice test. The preparation course is a Zero Credit course; there is no tuition associated with this course.
  9. Submit signed disclosure and consent forms required for participation in field experiences and clinical teaching. Schools participating in the field residency program will require criminal background checks on A&M-San Antonio students interacting on a daily basis with school-age students. Each district has its own background check process. Consult the EPP staff in Madla 212 for information. Applicants for a Texas teaching certificate must report any previous arrest, indictment, conviction and/or deferred adjudication to the Texas Board for Educator Certification. SBEC requires fingerprinting to verify a nationwide criminal history background check. An applicant with a criminal history may be denied certification.

### **Field Residency**

Field residency is a required component of the educator preparation program. Through observations, model teaching, professional development, and internships, students will have an opportunity to exercise and refine the skills learned from their university course work. Students will also have an opportunity to develop their own unique teaching style and practice the methods and strategies that are effective in helping students learn. Students must attend a mandatory orientation with EPP faculty prior to beginning both field residency experiences. Students may also be required to attend an orientation at the discretion of the host school district.

Field placements are selected at the sole discretion of the school district and the Educator Preparation Program (EPP) faculty. Students are allowed to specify two school districts of choice when applying for field residency. For Bilingual Teacher Candidates, placements will be made in effective bilingual education program models. In most instances, it is possible to obtain a placement in the first or second choice of district. Students may NOT request placement on a specific campus or within a specific geographical area within a district. Students may not complete field residency on a campus where they have children, grandchildren, siblings or other close relatives. Note: Some districts are very large geographically—for example Northside ISD. Placements may be anywhere within the requested district; driving distances may be long.

Students should expect that they may be placed at any grade level and/or in any content area that is covered by the certification that they are seeking. For example, a student seeking a 4-8 Generalist certificate may be placed in 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> grade. Additionally this student may be placed in an English class, a math class, a science class or a history class. Students may be placed in AP or Pre-AP classes for field residency; however, students may not be placed in dual credit classrooms.

There is a formally agreed upon process negotiated by each school district and TAMU-SA regarding how placements will be made. Students are expected to communicate all placement requests and questions to the Educator Preparation Program faculty. Students CANNOT contact campuses, districts, or principals directly regarding placements. Students who break the chain of command or who contact schools or districts directly may be placed on a growth plan and may be removed from the EPP at the discretion of the assistant dean.

To be eligible to register for field residency, students must submit an Educator Preparation Program application during the enrollment period. Application periods occur twice per academic year in September and February. Schools participating in the field residency program will require criminal background checks on A&M-San Antonio students interacting on a daily basis with school-age students. Each district has its own background check process. Consult the EPP staff in Madla 212 for information. Placements are not made until students' background checks have been cleared and the EPP receives notification of the clearance from the district.

The State Board for Educator Certification (SBEC) has established rules that specify the requirements for educator preparation coursework, field work and related training. For additional information refer to Texas Administrative Code: **TAC §228.35: Preparation Program Coursework and/or Training**

### **Clinical Teaching**

The clinical teaching semester is a full-time commitment. The clinical teaching semester has been designated as a minimum of **sixteen (16) weeks**. The school day must be at least 7 hours; however, clinical teachers should note that their day may be longer as they are expected to mirror the day of the cooperating teacher. This includes any required hours before or after school tutoring and working with students. Clinical teachers will follow the school district calendar. Students are expected to plan their academic programs so that all coursework has been completed prior to the clinical teaching semester; students will NOT be allowed to enroll in other courses during the clinical teaching semester. Students MUST earn a grade of "C" or better in clinical teaching; students who do not earn a "C" or better may repeat clinical teaching once. After a second unsuccessful clinical teaching attempt, students will be required to change to a non-certification degree plan. To register for clinical teaching, students must:

- Have been officially admitted to the Educator Preparation Program in the College of Education & Human Development.
- Have completed and submitted the clinical teaching application during the enrollment period. Application periods occur twice per academic year in September and February.
- Have passed the TExES practice exam in their content area prior to clinical teaching. It is recommended that students make every possible effort to complete all exams before or early during the clinical teaching semester.
- Have an overall grade point average of at least 2.75 (transfer and Texas A&M-San Antonio work) and a minimum of 2.75 average or better in the teaching field(s) and/or delivery systems with no grade lower than a "C".
- Have completed all education courses (except EDFR 4613 Elementary Clinical Teaching, EDFR 4623 Secondary/All-level Clinical Teaching, or EDFR 4316 and EDFR 4326 for students completing the one-year clinical teaching option).
- Have completed the appropriate background check processes. Schools participating in the clinical teaching program will require criminal background checks on A&M-San Antonio students interacting on a daily basis with school-age students. Each district has its own background check process. Consult the EPP staff in Madla 212 for information. Texas public schools are permitted by state law to conduct criminal history background checks on a person intended for hire or a person who has requested a volunteer position. An applicant with a criminal history may be denied into clinical teaching. Students will not be placed in a clinical teaching

Clinical teaching placements are selected at the sole discretion of the school district. Students are allowed to specify two school districts of choice when applying for clinical teaching. In most instances, it is possible to obtain a placement in the first or second choice of district. Students may NOT request placement on a specific campus or within a specific geographical area within a district. Students may not complete clinical teaching on a campus where they have children, grandchildren, siblings or other close relatives. Note: Some districts are very large geographically—for example Northside ISD. Placements may be anywhere within the requested district; driving distances may be long.

Students should expect that they may be placed at any grade level and/or in any content area that is covered by the certification that they are seeking. For example, a student seeking a 4-8 Generalist certificate may be placed in 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> grade. Additionally this student may be placed in an English class, a math class, a science class or a history class.

Students may be placed in AP or Pre-AP classes for field residency; however, students may not be placed in dual credit classrooms.

There is a formally agreed upon process negotiated by each school district and TAMU-SA regarding how placements will be made. Students are expected to communicate all placement requests and questions to the Educator Preparation Program faculty. Students CANNOT contact campuses, districts, or principals directly regarding placements. Students who break the chain of command or who contact schools or districts directly may be placed on a growth plan and may be removed from the EPP at the discretion of the assistant dean. Students must attend a mandatory orientation with EPP faculty prior to beginning the clinical teaching placement. Students may also be required to attend an orientation at the discretion of the host school district.

### **Clinical Teaching Attendance**

Clinical teachers are expected to be in attendance at their placement each day. Leaving the school campus during the school day is not permitted without prior approval. It is the responsibility of the clinical teacher to inform the cooperating teacher, university teaching specialist, the Field Faculty and the school office as early as possible in case of an illness or absence. All absences are to be made up by the clinical teacher and will extend the completion date beyond the scheduled 16 weeks. Excessive absences may result in removal from clinical teaching. Unexcused absences may result in removal from the placement and dismissal from the clinical teaching program. STUDENTS **MUST COMPLETE AN ABSENCE SHEET FOR ALL ABSENCES-EVEN PARTIAL DAYS. (EXCLUDING TESTING AND ON CAMPUS SEMINAR DAYS)**. All students are required to attend mandatory seminar meetings each month with the EPP staff. Seminars may be held in the evenings and/or on Saturdays as determined by the Educator Preparation Program.

### **CERTIFICATION EXAMS (TEXAS EXAMINATIONS OF EDUCATOR STANDARDS – TExES)**

As of September 1, 2015, candidates for teacher certification will be limited to five (5) total attempts on any certification exam. This is a Texas Education Agency requirement.

Students will be granted permission to take an actual TExES exam once they have successfully completed the required practice exams with a minimum score of 80% on each section of the practice exam.

The TExES exam will be available for first-time test takers from September through June of each year. The TExES exam will be available for students who need to re-take a failed test or section of a test at any time during the year. Please note that TEA rule requires a minimum of 45 days between each attempt on any TExES exam.

***Students should take and pass the actual content and PPR TExES exams early in the semester during clinical teaching.***

### **Test Preparation**

Prior to entering the clinical teaching semester, students should have previously participated in test preparation activities intended to facilitate their preparation for the TExES content and PPR exams. Additionally, students will have at minimum passed the content practice exam with a grade of 80% or better prior to beginning clinical teaching. Please see the section immediately above for information related to anticipated increased passing standards. Students who have been unsuccessful on a first attempt at taking an actual content or PPR exam should expect to engage in significant remediation before the EPP approves a second attempt on the exam. Suggested preparation activities are included below. Additional remediation activities may be required by program faculty.

### **Teacher Certification Requirements**

Students are required to participate in test preparation activities starting in Field Residency I. Prior to taking the

In order to be recommended for initial certification, all teacher candidates are required to earn a passing score on the Texas Examinations of Educator Standards (TExES) content area and Pedagogy and Professional Responsibilities (PPR) exams,

complete all coursework including field residency and clinical teaching and be awarded a Bachelor's degree to meet all certification requirements. For additional information on certification requirements, visit the teacher certification website: <http://www.tamusa.edu/collegeofeducationandhumandevelopment/epp/index.html>.

Upon Completion of the Educator Preparation Program, students will have successfully:

1. Completed all course work with a minimum 2.75 GPA with no grade lower than a "C" in education and content area courses
2. Participated in up to 12 hours of test preparation.
3. Successfully taken and passed a practice test and/or real test for each certification being sought.
4. Successfully completed Field Residency (FR1), Field Residency (FR2) and Clinical Teaching (CT).
5. Been awarded a Bachelor's degree

### **Fitness to Teach**

Note: The College of Education and Human Development will not recommend students for certification who do not meet qualifying criteria. Admission to the program does not guarantee fitness to remain in the program. Only those students who meet program standards will be allowed to continue in the program. Students pursuing an initial teacher's certification must meet fitness to teach standards that are assessed by faculty and program staff throughout the program. These standards include demonstration of emotional and mental fitness in their interaction with others as well as conformance with the code of professional educator ethics of the state of Texas. Students who fail to demonstrate fitness or conformance to appropriate codes may be asked to enter into a remediation plan in order to remain in the program. If a remediation plan is developed, students must demonstrate satisfactory remediation prior to being allowed to proceed toward graduation. In rare cases, a student's ability to practice may exceed remediation and removal from the program is possible.

Periodically in each candidate's preparation, there will be checkpoints at which faculty, teaching specialists and cooperating teachers will assess professional dispositions. Candidates who are identified as having significant concerns will be required to correct the areas of concern and may be placed on a growth plan. All TAMU-SA students placed in schools are expected to adhere to the Code of Ethics and Standard Practices for Texas Educators.

Note: Students exhibiting a pattern of concerns will be referred to the Assistant Dean. Failure to remediate areas concern may result in a recommendation for the student to be dropped from the Educator Preparation Program. Students dropped from the Educator Preparation Program will be required to shift to a non-certification degree program in order to graduate. Students who are required to change to a non-certification degree plan will not be allowed to change back to a certificate degree plan.

### **MINORS AND DEGREE PROGRAM REQUIREMENTS**

The minors offered by the College of Education and Human Development are Child Development, Health, Kinesiology, and Special Education. Consult with your academic advisor to determine the optimum number of lower-division and upper-division courses within the chosen minor.

**Child Development:** The following courses are required: EDEC 3331 (Infant and Toddler Development) and EDEC 4301 (Working with Diverse Families and Young Children). An additional 12 semester hours selected from 3000- and 4000-level EDEC courses.

**Education:** The minimum number shall be 18 semester hours (beyond EDCI 1301 or EDCI 3370), 12 of which must be advanced.

**Health:** The minor in Health will complement existing BS programs in kinesiology, psychology, sociology, and others. These courses will prepare students for careers in the public and community health sector. Students wishing to minor in health must complete 18 semester credit hours from the following:

- EDHL 3331: Consumer Health
- EDHL 3333: Growth, Development, and Sexuality
- EDHL 3335: Drug Education
- EDHL 3381: Community Health
- EDHL 3383: Women's Health
- EDHL 4337: Disease Entities and Epidemiology
- EDHL 4342: Program Planning for Health Promotion

**Kinesiology:** Students may select from one of the following minors based on their specific interest.

**Kinesiology: EC-12 Physical Education (18 credit hours).** The EC-12 Physical Education minor is for students interested in teaching physical education (PE). EC-12 Physical Education is restricted to students seeking teacher certification through their major.

- EDKN 1301: Foundations of Kinesiology
- EDKN 4310: Teaching Elementary Physical Education
- EDKN 4311: Teaching Secondary Physical Education
- EDKN 4342: Motor Skills and Special Populations
- EDKN 4320: Motor Development/Motor Learning
- EDFR 3110 and EDFR 3120: Field Based Experience taken in two separate semesters. Must be field-based in Kinesiology and no other subject area.
- 1 hour of either an individual, dual or team sport
- Any substitutions must be approved by the Kinesiology Coordinator.

**Kinesiology: Coaching Concentration (18 credit hours).** The Coaching concentration minor is for students interested in coaching sports. Any substitutions must be approved by the Kinesiology Coordinator:

- EDKN 1301: Foundations of Kinesiology
- EDKN 1308: Intramurals & Officiating
- EDKN 1306: First Aid
- EDKN 1305: Coaching
- EDKN 3332: Program Development/Management Fitness Industries
- EDKN 3350: Kinesiology & Sports in Society

**Exercise Science & Pre-Physical Therapy (20-21 hours).** The Exercise Science and Pre-PT minor is for students interested in a non-public school teaching profession, continuing their education in Exercise Science, or applying to a PT program to further their education:

**Required (14 hours):**

- EDKN 3426: Basic Physiology of Exercise. Note: EDKN 3315 is a prerequisite.
- EDKN 3315: Functional Anatomy. Note: BIOL 1306 is a prerequisite.
- EDKN 4325: Biomechanics. Note: EDKN 3315 is a prerequisite.
- EDKN 4401: Exercise Testing & Prescription. Note: EDKN 3426 is a prerequisite.

**Plus one of the following courses (3 hours):**

- EDKN 1301: Foundations of Kinesiology
- EDKN 1338: Concepts of Fitness & Wellness

**Plus one of the following advanced courses (3-4 hours):**

- EDKN 4324: Exercise & Chronic Diseases

- EDKN 4417: Advanced Physiology of Exercise
- EDKN 4320: Motor Development/Motor Learning

**Special Education (Available only to non-Education majors)**

The following courses are required:

- EDSE 3345: Survey of Exceptional Individuals
- EDSE 3346: Development of Exceptional Individuals
- EDSE 3347: Behavior Management for Exceptional Student
- EDSE 3348: Education Proc. For Exceptional Students
- EDSE 4340: Collaboration and Transition Services in Inclusive Settings
- EDSE 4347: Federal & State Regulations

**English as a second language Supplemental (9 credit hours)**

ESL supplemental teacher certification may be completed by teacher candidates participating in an Educator Preparation Program. The courses listed here will provide the necessary coursework addressing the TExES ESL Supplemental examination (#154). Nine (9) semester credit hours are required for the ESL Supplemental Teacher Certification at TAMU-SA. Already part of the EC-6 Generalist & 4-8 Generalist degree plans, one of the required courses for the supplemental teacher certification is part of the required degree plan credit hours for these respective certifications:

- EDBL 3321 Methods for Teaching non-English speaking child

Students may complete the ESL Supplemental Teacher Certification by adding the following 6 hours of coursework to their existing degree plan:

- EDBL 3315 Second language acquisition and literacy development
- EDBL 3340 Applied Linguistics



# BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES BILINGUAL GENERALIST (GRADES EC-6)

2019-2020 Degree Plan

Core Curriculum (See note below)	42 SCH	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra		3
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Language/Philosophy/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>		
Social & Behavioral Science		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fund of Public Speaking		3
Component Option Course from Approved List		3
<b>Other Required Courses</b>	<b>18 SCH</b>	
	Grd	SCH
EDCI 1301 Intro to Teaching		3
UNIV 1101 Jaguar Tracks I* (see notation below)		1
UNIV 2101 Jaguar Tracks II* (see notation below)		1
EDCI 3101 Jaguar Tracks III* (see notation below)		1
ADDITIONAL Life & Physical Science		6
MATH 1350 Fundamentals of Math I		3
MATH 1351 Fundamentals of Math II		3
*EDUC 2301 may be substituted for UNIV 1101, 2101, & EDCI 3101		
***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended.		

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion. Completion of this degree plan requires admission to the Educator Preparation Program and successful completion of required field residencies and student teaching.

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, MATH 1350, MATH 1351, HIST 1301, HIST 1302, HIST 2301, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses	64 SCH	
	Grd	SCH
<b>'C' or higher required in EDXX courses</b>		
EDBL 3311 Foundations of Bilingual Education		3
EDBL 3315 SLA and Literacy Development		3
EDEC 3307 Child & Adol. Dev. as it Imp Instruc.		3
EDRG 3315 Early Lit Instruction		3
EDKN 3340 Health & PE for EC-Elem		3
EDSE 3345 Survey of Exceptional Individuals		3
HIST 2301 Texas History		3
EDCI 3349 Social Studies Methods EC/Elem		3
EDBL 3307 Academic Spanish in DL Classroom		3
EDRG 3389 Teaching Rdg Inter & Mid Grades		3
EDBL 3321 Meths of Teaching Eng to Non-Eng		3
EDEC 3349 Acad, Creativity, Play		3
EDBL 4318 Tchg Lang Arts, Soc St, Music		3
EDFR 3110 Field Residency I		1
EDCI 3348 Classroom Management-Elem		3
EDBL 3327 Multicultural & Multilingual Edu		3
EDBL 4322 Tchg Math, Science, Art		3
EDCI 4309 Legal & Ethical Issues in Educ		3
EDCI 4346 Science Methods EC/ELEM		3
EDCI 4347 Math Methods EC/ELEM		3
EDFR 4613 Elementary Clinical Teaching		6
<b>**Unpaid semester at A&amp;M-SA**</b>		

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

**Advanced Spanish Proficiency:**

- 12-16 hours required for Pre-Admission to Bilingual Degree.
- Students will take SPAN 1311, SPAN 1312, and SPAN 2311 (Students can CLEP these courses).
- Students will be required to register SPAN 2315.
- WebCAPE Assessment will be given to students to identify Spanish Language Placement in SPAN 2315. Please see department for further information.
- EDFR 0000 BTLPT test prep course (non-credit) is mandatory for all bilingual major.

**ESL Endorsement Option:** requires students to complete an additional 9-12 additional hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, EDBL 3321 Methods for Teaching Eng. to Non-Eng.

**Bilingual Majors have the option to obtain an ESL Certificate. See the College of Education and Human Development for test requirements.**

**124 CREDIT HOURS REQUIRED FOR DEGREE**

45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE  
30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

## BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES BILINGUAL GENERALIST (GRADES 4-8)

2019-2020 Degree Plan

Core Curriculum (See note below)	42 SCH	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra		3
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Language/Philosophy/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>		
Social & Behavioral Science		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fund of Public Speaking		3
Component Option Course from Approved List		3
<b>Required Support Courses</b>	<b>18 SCH</b>	
	Grd	SCH
EDCI 1301 Intro to Teaching		3
UNIV 1101 Jaguar Tracks I* (see notation below)		1
UNIV 2101 Jaguar Tracks II* (see notation below)		1
EDCI 3101 Jaguar Tracks III* (see notation below)		1
ADDITIONAL Life & Physical Science		6
MATH 1350 Fundamentals of Math I		3
MATH 1351 Fundamentals of Math II		3
*EDUC 2301 may be substituted for UNIV 1101, 2101, & EDCI 3101		
***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended.		

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

**Completion of this degree plan requires admission to the Educator Preparation Program and successful completion of required field residencies and student teaching.**

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, MATH 1350, MATH 1351, HIST 1301, HIST 1302, HIST 2301, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses	64 SCH	
	Grd	SCH
<b>'C' or higher required in EDXX courses</b>		
EDBL 3311 Foundations of Bilingual Education		3
EDBL 3315 Sec Lang Acq. Lit Dev for ELL		3
EDEC 3307 Child/Adol Dev as it Impacts Instr		3
EDRG 3315 Early Lit. Instruction		3
EDCI 3303 Knowl of Pedagogy & Assessment		3
EDSE 3345 Survey of Except. Individuals		3
HIST 2301 Texas History		3
EDCI 3359 Social Studies Methods MS/SEC		3
EDBL 3307 Academic Spanish in DL Classroom		3
EDRG 3389 Teach Rdg Inter & Middle Grades		3
EDBL 3321 Meths of Teach Eng to Non-Eng		3
EDBL 4318 Tch Lang Arts, Soc St, Mus (Dual)( FB)		3
EDFR 3110 Field Residency I		1
EDCI 3358 Classroom Mgmt for MS-Second		3
EDBL 3327 Multicultural & Multilingual Educ		3
EDCI 3357 English/Language Art MS/SEC		3
EDBL 4322 Tch Math, Science, Art (Dual)		3
EDCI 4309 Legal & Ethical Issues in Educ		3
EDCI 4356 Science Methods MS/SEC		3
EDCI 4357 Math Methods MS/SEC		3
EDFR 4613 Student Teaching		6
**Unpaid semester at A&M-SA**		

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

### Advanced Spanish Proficiency:

- 12-16 hours required for Pre-Admission to Bilingual Degree.
- Students will take SPAN 1311, SPAN 1312, and SPAN 2311 (Students can CLEP these courses).
- Students will be required to register SPAN 2315.
- WebCAPE Assessment will be given to students to identify Spanish Language Placement in SPAN 2315. Please see department for further information.
- EDFR 0000 BTLPT test prep course (non-credit) is mandatory for all bilingual major.

**ESL Endorsement Option:** requires students to complete an additional 9-12 additional hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, EDBL 3321 Methods for Teaching Eng. to Non-Eng.

**Bilingual Majors have the option to obtain an ESL Certificate. See the College of Education and Human Development for test requirements.**

**124 CREDIT HOURS REQUIRED FOR DEGREE**

**45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE**

**30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT**

## BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES GENERALIST (GRADES EC-6)

2019-2020 Degree Plan

Core Curriculum (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 College Algebra		3	
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>			
Social & Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
Component Option Course from Approved List		3	
<b>Required Support Courses</b>		<b>18 SCH</b>	
	Grd	SCH	
EDCI 1301 Intro to Teaching		3	
UNIV 1101 Jaguar Tracks I* (see notation below)		1	
UNIV 2101 Jaguar Tracks II* (see notation below)		1	
EDCI 3101 Jaguar Tracks III* (see notation below)		1	
ADDITIONAL Life & Physical Science		6	
MATH 1350 Fundamentals of Math I		3	
MATH 1351 Fundamentals of Math II		3	
*EDUC 2301 may be substituted for UNIV 1101, 2101, & EDCI 3101			
***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended.			

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, MATH 1350, MATH 1351, HIST 1301, HIST 1302, HIST 2301, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses Courses are listed in suggested order of completion		61 SCH	
	Grd	SCH	
<b>'C' or higher required in EDXX courses</b>			
EDEC 3307 Child & Adol Dev as it Impacts Instr		3	
EDRG 3315 Early Lit Instruction		3	
EDKN 3340 Health & P.E. for EC-Elementary		3	
EDSE 3345 Survey of Excep. Individuals		3	
HIST 2301 Texas History		3	
EDCI 3308 Methods in Education Media & Tech		3	
EDCI 3349 Soc Studies Methods EC-Elem		3	
EDCI 4346 Science Methods EC-Elem		3	
EDRG 3389 Tchng Rdg in INT & MID SCHL		3	
EDEC 3349 Acad. Creativity & Play		3	
EDSE 3347 Behavior Mgmt for Except Stds		3	
EDBL 3321 Mthds for Tch Eng to NonEng Sp		3	
EDCI 4347 Math Methods EC-Elem		3	
EDCI 3348 Classroom Manag. Elem.		3	
EDFR 3110 Field Lab Residency I		1	
EDCI 4301 Teaching & Pedagogy for EC/Elem		3	
EDCI 3347 English/Lang. Arts-Elem.		3	
EDRG 4331 Reading Assess/Intervention		3	
EDCI 4309 Legal & Ethical Issues in Educ		3	
EDFR 4613 Elementary Clinical Teaching		6	
**Unpaid semester at A&M-SA**			

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

### 121 CREDIT HOURS REQUIRED FOR DEGREE 45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

**Completion of this degree plan requires admission to the Educator Preparation Program and successful completion of required field residencies and student teaching.**

ESL Endorsement Option: requires students to complete 9 EDBL hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, and EDBL 3321 Methods for Teaching Non-English Speaking Child

## BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES GENERALIST (GRADES 4-8)

2019-2020 Degree Plan

Core Curriculum (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 College Algebra		3	
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>			
Social & Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
Component Option Course from Approved List		3	
<b>Required Support Courses</b>		<b>21 SCH</b>	
	Grd	SCH	
EDCI 1301 Intro to Teaching		3	
UNIV 1101 Jaguar Tracks I* (see notation below)		1	
UNIV 2101 Jaguar Tracks II* (see notation below)		1	
EDCI 3101 Jaguar Tracks III* (see notation below)		1	
ADDITIONAL Life & Physical Science		6	
MATH 1350 Fundamentals of Math I		3	
MATH 1351 Fundamentals of Math II		3	
GEOG 3331 United States & Canada		3	
*EDUC 2301 may be substituted for UNIV 1101, 2101, & EDCI 3101			
***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended.			

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, MATH 1350, MATH 1351, HIST 1301, HIST 1302, HIST 2301, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses		58 SCH	
Courses are listed in suggested order of completion		Grd	SCH
<b>'C' or higher required in EDXX courses</b>			
EDCI 3303 Knowl of Ped & Assessment			3
EDSE 3345 Survey of Excep. Individuals			3
EDCI 3308 Methods of Ed. Media & Tech.			3
HIST 2301 Texas History			3
EDBL 3315 Second Lang. Acq. & Literacy			3
EDSE 3347 Behr Mgmt for Except. Stdnts			3
EDCI 3321 Meth Teach Eng. To Non Eng. Sp.			3
EDRG 3389 Reading in INT & MS SCH			3
EDRG 3355 Teaching Rdg. Sec. Lvl			3
EDCI 4357 Math Methods MS/SEC			3
EDCI 3358 Class Manag. MS/SEC			3
EDCI 4356 Science Methods MS/Sec			3
EDFR 3110 Field Lab Residency I			1
EDCI 3357 English/LangArts MS/SEC			3
EDCI 4311 Teaching & Pedagogy MS/SEC			3
EDCI 4309 Legal & Ethical Issues in Educ			3
EDRG 4331 Reading Assessment/Intervention			3
EDCI 3359 Soc. Stu. Methds MS/SEC (FB)			3
EDFR 4613 Student Teaching **Unpaid semester at A&M-SA**			6

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

**121 CREDIT HOURS REQUIRED FOR DEGREE**  
45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

**Completion of this degree plan requires admission to the Educator Preparation Program and successful completion of required field residencies and student teaching.**

ESL Endorsement Option: requires students to complete 9 EDBL hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, and EDBL 3321 Methods for Teaching Non-English Speaking Child

# BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES SPECIAL EDUCATION (GRADES EC-12) WITH DUAL CERTIFICATION IN GENERALIST (GRADES EC-6)

2019-2020 Degree Plan

Core Curriculum (See note below)	42 SCH	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra		3
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Language/Philosophy/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>		
Social & Behavioral Science		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fund of Public Speaking		3
Component Option Course from Approved List		3
Required Support Courses	18 SCH	
	Grd	SCH
EDCI 1301 Intro to Teaching		3
UNIV 1101 Jaguar Tracks I* (see notation below)		1
UNIV 2101 Jaguar Tracks II* (see notation below)		1
EDCI 3101 Jaguar Tracks III* (see notation below)		1
ADDITIONAL Life & Physical Science		6
MATH 1350 Fundamentals of Math I		3
MATH 1351 Fundamentals of Math II		3
*EDUC 2301 may be substituted for UNIV 1101, 2101, & EDCI 3101 ***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended. ***		

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, MATH 1350, MATH 1351, HIST 1301, HIST 1302, HIST 2301, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses	64 SCH	
Courses are listed in suggested order of completion		
'C' or higher required in EDXX courses	Grd	SCH
EDEC 3307 Child/Adol Dev as it Impacts Instr		3
EDRG 3315 Early Lit Instruction		3
EDKN 3340 Health & PE for EC-Elem		3
EDSE 3345 Survey of Exceptional Individuals		3
HIST 2301 Texas History		3
EDCI 3349 Social Studies Methods EC/Elem		3
EDCI 4346 Science Methods EC/Elem		3
EDRG 3389 Teaching Rdg in INT & MID Sch		3
EDSE 3346 Dev. of Exceptional Individuals		3
EDSE 3347 Beh. Mgt. for Except. Students		3
EDBL 3321 Meth for Tch. Eng-Non-English		3
EDEC 3349 Acad, Creativity, Play		3
EDCI 3347 Eng/LA Mth EC/Elem		3
EDSE 3348 Ed Proc for Exceptional Ind		3
EDCI 3348 Classroom Mgt. for EC-ELEM		3
EDSE 4340 Collab & Transition		3
EDFR 3110 Field Residency I		1
EDCI 4347 Math Mthds EC/ELEM		3
EDSE 4346 Assessment of Except Students		3
EDSE 4347 Federal & State Regulations		3
EDFR 4613 Elementary Clinical Teaching <b>**Unpaid semester at A&amp;M-SA**</b>		6

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

**124 CREDIT HOURS REQUIRED FOR DEGREE**  
45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS  
REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY  
RESIDENCY REQUIREMENT

**Completion of this degree plan requires admission to the Educator  
Preparation Program and successful completion of required field  
residencies and student teaching.**

ESL Endorsement Option: requires students to complete 9 EDBL hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, and EDBL 3321 Methods for Teaching Non-English Speaking Child

# BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES SPECIAL EDUCATION (GRADES EC-12) WITH DUAL CERTIFICATION IN GENERALIST (GRADES 4-8)

2019-2020 Degree Plan

Core Curriculum (See note below)	42 SCH	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra		3
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>		
Life & Physical Science		3
Life & Physical Science		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Language/Philosophy/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>		
Social & Behavioral Science		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fund of Public Speaking		3
Component Option Course from Approved List		3
Required Support Courses	18 SCH	
	Grd	SCH
EDCI 1301 Intro to Teaching		3
UNIV 1101 Jaguar Tracks I* (see notation below)		1
UNIV 2101 Jaguar Tracks II* (see notation below)		1
EDCI 3101 Jaguar Tracks III* (see notation below)		1
ADDITIONAL Life & Physical Science		6
MATH 1350 Fundamentals of Math I		3
MATH 1351 Fundamentals of Math II		3
*EDUC 2301 may be substituted for UNIV 1101, 2101, & EDCI 3101 ***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended. ***		

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, MATH 1350, MATH 1351, HIST 1301, HIST 1302, HIST 2301, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses	61 SCH	
Courses are listed in suggested order of completion	Grd	SCH
<b>'C' or higher required in EDXX courses</b>		
EDEC 3307 Child/Adol Dev as it Impacts Inst		3
EDKN 3340 Health and P.E. for EC/Elem		3
EDRG 3315 Early Lit Instruction		3
EDSE 3345 Survey of Exceptional Individuals		3
HIST 2301 Texas History		3
EDRG 3389 Teach Reading in INT & MS Sch		3
EDSE 3346 Dev. of Exceptional Individuals		3
EDSE 3347 Beh. Mgt for Except. students		3
EDSE 3348 Ed. Proc for Exceptional Ind.		3
EDSE 4340 Collab.&Trans. Incl. Settings		3
EDBL 3321 Meth for Tch. English - Non Eng.		3
EDCI3357 Eng/LA Mth MS/Sec		3
EDCI 3358 Classroom Mgt. for MS/Sec		3
EDCI 3359 Social Studies Methods MS/Sec		3
EDSE 4346 Assessment of Except Students		3
EDFR 3110 Field Residency I		1
EDCI 4356 Science Mthds MS/Sec		3
EDCI 4357 Math Mthds MS/Sec		3
EDSE 4347 Federal & State Regulations		3
EDFR 4613 Elementary Clinical Teaching **Unpaid semester at A&M-SA**		6

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

**121 CREDIT HOURS REQUIRED FOR DEGREE**  
45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS  
REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY  
RESIDENCY REQUIREMENT

**Completion of this degree plan requires admission to the Educator  
Preparation Program and successful completion of required field  
residencies and student teaching.**

ESL Endorsement Option: requires students to complete 9 EDBL hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, and EDBL 3321 Methods for Teaching Non-English Speaking Child

# BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES SPECIAL EDUCATION (GRADES EC-12) WITH 7-12 CONTENT

2019-2020 Degree Plan

Core Curriculum (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 College Algebra		3	
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>			
Life & Physical Science		3	
Life & Physical Science		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>			
Social & Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
SPCH 1315 Fund of Public Speaking		3	
Component Option Course from Approved List		3	
<b>Required Support Courses</b>		<b>7 SCH</b>	
	Grd	SCH	
EDCI 1301 Intro to Teaching		3	
UNIV 1101 Jaguar Tracks 1		1	
UNIV 2101 Jaguar Tracks 2		1	
EDCI 3101 Jaguar Tracks 3		1	
EDCI 4101 Jaguar Tracks 4		1	
<b>***Recommended that all courses above be completed before Field Residency I Semester. AAT Completion Highly recommended.***</b>			

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

**Completion of this degree plan requires admission to the Educator Preparation and Certification program and successful completion of required field residencies and student teaching.**

Completion of 45 hours; EDCI 1301, ENGL 1301, ENGL 1302, MATH 1314, HIST 1301, HIST 1302, SPCH 1315, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Major Courses		71 SCH	
Courses are listed in suggested order of completion			
<b>'C' or higher required in EDXX courses</b>		Grd	SCH
EDCI 3303 Knowl of Ped & Assessment			3
EDSE 3345 Survey of Exceptional Individuals			3
EDRG 3315 Early Lit Instruction			3
XXXX XXXX Content Area Course			3
XXXX XXXX Content Area Course			3
EDRG 3389 Tchng Rdg in INT & MID Schools			3
EDSE 3346 Dev. of Exceptional Individuals*			3
EDSE 3347 Beh Mgt for Except students			3
XXXX XXXX Content Area Course			3
XXXX XXXX Content Area Course			3
XXXX XXXX Content Area Course			3
EDCI XXXX Field Specific Methods			3
EDCI 3358 Clsrn Mgt for MS/SEC			3
EDRG 4325 Disciplinary & Content Area Lit			3
EDSE 3348 Ed Proc for Exceptional Ind			3
XXXX XXXX Content Area Course			3
EDFR 3110 Field Residency I			1
EDCI 4309 Legal & Ethical Issues in Educ			3
EDCI 4311 Teaching & Pedag for MS/Sec			3
EDSE 4340 Collab & Trans Svcs in Inc Settings			3
EDSE 4346 Assessment of Except students*			3
EDSE 4347 Federal & State Regulations*			3
EDFR 3120 Field Residency II*			1
EDFR 4613 Elementary Clinical Teaching**Unpaid semester at A&M-SA**			6

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

ESL Endorsement Option: requires students to complete 9 EDBL hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, and EDBL 3321 Methods for Teaching Non-English Speaking Child

# BACHELOR OF SCIENCE IN KINESIOLOGY EXERCISE SCIENCE/PRE-PT

2019-2020 Degree Plan

Core Curriculum (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 College Algebra		3	
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>			
BIOL 2401 Anatomy & Physiology I		3	
BIOL 2402 Anatomy & Physiology II		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>			
Social and Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
EDKN 1301 Foundations of Kinesiology		3	
EDKN 1338 Fitness and Wellness		3	
<b>Required Support Courses</b>		<b>14 SCH</b>	
	Grd	SCH	
Fitness Activity		1	
EDKN 1304 Personal/Community Health		3	
EDKN 1306 First Aid		3	
EDHL 1322 Nutrition		3	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BIOL 2401 Anatomy & Physiology I Lab		1	
BIOL 2401 Anatomy & Physiology II Lab		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
**45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE**

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS  
 REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY  
 RESIDENCY REQUIREMENT

Major Courses		48 SCH	
Courses are listed in suggested order of completion			
<b>'C' or higher required in EDXX courses</b>		Grd	SCH
EDKN 3315 Functional Anatomy			3
EDKN 3316 Medical Terminology			3
EDKN 3445 Meas/Eval in Kinesiology			4
Elective (Choose Elective Options Below)			
Elective (Choose Elective Options Below)			
EDKN 3332 Prog. Dev/Mgmt of Fitness Industry			3
EDKN 3426 Basic Phys of Exercise			4
EDKN 4325 Biomechanics			3
SOCI 3330 or MATH 3301			3
Elective (Choose Elective Options Below)			
EDKN 4320 Motor Dev/Motor Learning			3
EDKN 4334 Research Proj in Exercise Science			3
EDKN 4401 Exercise Testing & Prescription			4
EDHL 4344 Healthy Aging			3
EDKN 3101 Jag Tracks III			1
Elective (Choose Elective Options Below)			
EDKN 4324 Exer. & Chronic Disease/Disability			3
EDKN 4328 Internship I			3
EDKN 4417 Advanced Physiology of Exercise			4
EDKN 4101 Jag Tracks IV			1
<b>ELECTIVE COURSE OPTIONS: Choose 16 hrs. towards degree completion. The following are required or recommended for admission to most physical therapy programs.</b>		<b>16 SCH</b>	
Biology I			4
Biology II			4
General Chemistry I (science majors)			4
General Chemistry II (science majors)			4
Physics I			4
Physics II			4
Trigonometry			3
Computer Literacy			3
Technical Writing			3
Child Psychology, Abnormal Psychology or Lifespan Development			3

## BACHELOR OF SCIENCE IN KINESIOLOGY EXERCISE SCIENCE

2019-2020 Degree Plan

Core Curriculum (See note below)		42 SCH	
	Grd	SCH	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II		3	
<b>(020) MATHEMATICS</b>			
MATH 1314 College Algebra		3	
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>			
BIOL 2401 Anatomy & Physiology I		3	
BIOL 2402 Anatomy & Physiology II		3	
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>			
Language/Philosophy/Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>			
PSYC 2301 Intro to Psychology		3	
<b>(090) COMPONENT AREA OPTION</b>			
EDKN 1338 Fitness and Wellness		3	
EDKN 1301 Foundations of Kinesiology		3	
<b>Required Support Courses</b>		<b>14 SCH</b>	
	Grd	SCH	
Fitness Activity		1	
EDKN 1304 Personal/ Community Health		3	
EDKN 1306 First Aid		3	
EDHL 1322 Nutrition		3	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
BIOL 2401 Anatomy & Phys. I		1	
BIOL 2402 Anatomy & Phys. II		1	

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion.

Major Courses		51 SCH	
Courses are listed in suggested order of completion		Grd	SCH
<b>'C' or higher required in EDXX courses</b>			
EDKN 3315 Functional Anatomy			3
EDKN 3316 Medical Terminology			3
EDKN 3350 Kinesiology & Sport in Society			3
EDKN 3445 Meas/Eval in Kinesiology			4
Elective/Support (Listed below)			
EDKN 3332 Prog Dev/Mgmt of Fitness Industr			3
EDKN 3426 Basic Phys of Exercise			4
EDKN 4325 Biomechanics			3
EDKN 4320 Motor Dev/Motor Learning			3
EDKN 3101 Jag Tracks III			1
Elective/Support (Listed below)			
EDKN 4342 Motor Skills Special Populations			3
EDKN 4324 Exer & Chron Diseases/Disab			3
EDKN 4401 Exercise Testing & Prescription			4
EDHL 4344 Healthy Aging			3
EDKN 4101 Jag Tracks IV			1
EDKN 4334 Research Proj in Exerc Science			3
EDKN 4328 Internship I			3
EDKN 4417 Advanced Physiology of Exercise			4
<b>ELECTIVE COURSES/SUPPORT FIELD</b>		<b>13-16 SCH</b>	
Must include at least 6 advanced credit hours from (3000 to 4000 level courses)			
	Grd	SCH	
Elective		3-4	
Elective		3-4	
Elective		3-4	
Elective		4	

**120-CREDIT HOURS REQUIRED FOR DEGREE**  
45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE

30 UPPER-DIVISION HOURS AND 25% OF TOTAL SEMESTER HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT

# BACHELOR OF SCIENCE IN KINESIOLOGY PHYSICAL EDUCATION (GRADES EC-12)

2019-2020 Degree Plan

Core Curriculum (See note below)	42 SCH	
	Gr	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II		3
<b>(020) MATHEMATICS</b>		
MATH 1314 College Algebra		3
<b>(030) LIFE &amp; PHYSICAL SCIENCES</b>		
BIOL 2401 Anatomy & Physiology I		3
BIOL 2402 Anatomy & Physiology II		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Language/Philosophy/Culture		3
<b>(050) CREATIVE ARTS</b>		
Creative Arts		3
<b>(060) AMERICAN HISTORY</b>		
American History		3
American History		3
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>		
Government/Political Science		3
Government/Political Science		3
<b>(080) SOCIAL/BEHAVIORAL SCIENCE</b>		
PSYC 2301 Intro to Psychology		3
<b>(090) COMPONENT AREA OPTION</b>		
EDKN 1338 Fitness and Wellness		3
EDKN 1301 Foundations of Kinesiology		3
<b>Required Support Courses</b>		
	18 SCH	
	Grd	SCH
Fitness Activity		1
Fitness Activity		1
UNIV 1101 Jaguar Tracks I		1
UNIV 2101 Jaguar Tracks II		1
EDKN 1119 Beg Rhythmic Activities		1
EDKN 1305 Coaching		3
EDKN 1306 First Aid		3
EDKN 1308 Intramurals & Officiating		3
EDKN 2147 Analysis of Ind Sports		1
EDKN 2148 Analysis of Team Sports		1
BIOL 2401 Anatomy & Phys. I Lab		1
BIOL 2402 Anatomy & Phys. II Lab		1
***Recommended that all courses above be completed before Field Residency I Semester.		

**Note about core curriculum courses:** Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Major Courses Courses are listed in suggested order of completion	60 SCH	
	Grd	SCH
<b>'C' or higher required in EDXX courses</b>		
EDKN 3315 Functional Anatomy		3
EDKN 4320 Motor Dev/Motor Learning		3
EDKN 3350 Kinesiology & Sport in Society		3
Support Field**		3
EDCI 3303 Knowl of Pedagogy & Assessment		3
EDKN 3445 Meas/Eval in Kinesiology		4
EDKN 4342 Motor Skills Special Pop		3
Support Field**		3
EDKN 4310 Teaching Elem Phys Educ		3
EDCI 3358 Classroom Mgt-Mid and Sec		3
EDKN 3426 Basic Physiology of Exercise		4
EDKN 3101 Jag Tracks III		1
Support Field (ADV)**		3
EDFR 3110 Field Residency I *		1
EDKN 4311 Teaching Secondary Phys Educ		3
EDCI 4309 Legal & Ethical Issues in Educ *		3
EDCI 4311 Curriculum and Learning-Adol. *		3
EDKN 4101 Jag Tracks IV		1
Support Field (ADV)**		3
EDFR 3120 Field Residency II *		1
EDFR 4613 Elementary Clinical Teaching		6

\*\*Support Field Course should be from a common field, such as Math, Science, English Language Arts, Social Studies, or Special Education

**NOTE:** For state approved programs leading to certification, as the state implements new requirements for certification, changes at the state level become compulsory at the time required with or without notice. It is the student's responsibility to consult their major academic advisor and catalog for any new updates or changes. Catalog and Degree Plans expire in 6 years.

**Completion of this degree plan requires admission to the Educator Preparation Program and successful completion of required field residencies and student teaching.**

Completion of 45 hours; ENGL 1301, ENGL 1302, MATH 1314, HIST 1301, HIST 1302, and 2 Life & Physical Sciences all with a C or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

**120 CREDIT HOURS REQUIRED FOR DEGREE**  
45 ADVANCED CREDIT HOURS REQUIRED FOR DEGREE(25% ADVANCED HOURS FROM A&M-SA FOR RESIDENCY)

Students who do not meet teacher preparation and certification requirements may be required to switch to a non-certification degree program.

ESL Endorsement Option: requires students to complete 9 EDBL hours by taking EDBL 3315 Second Language Acquisition, EDBL 3340 Applied Linguistics, and EDBL 3321 Methods for Teaching Non-English Speaking Child

## FACULTY ROSTER

---

- Abdel Rahman, Mohammad, Assistant Professor, Computer Science; B.S., Yarmouk University; M.S., Yarmouk University; M.S., Dakota State University; D.Sc., Dakota State University
- Abongwa, Pride, Lecturer, Geology; B.S., University of Buea, Cameroon; M.S., IHE Delft Institute for Water Education, Netherlands; Ph.D., Oklahoma State University
- Acevedo Aquino, Maria, Assistant Professor, Education; B.A., Universidad de Puerto Rico, Puerto Rico; M.A., The University of Arizona; Ph.D., The University of Arizona
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Rushing, Brenda G., Assistant Professor, Biology; B.S., Texas A&M University; Ph.D., Stanford University

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Santos, Adrianna M., Assistant Professor, English; B.A., The University of Texas at Austin; M.A., University of California-Santa Barbara; Ph.D., University of California-Santa Barbara

Saywell, Martha, Lecturer, Music; B.A., Murray State University; M.M., University of Wisconsin; D.M.A., University of Wisconsin

Scott, Gary Frank, Lecturer, Biology; B.A., The University of Texas at Austin; M.S., University of North Texas Health Science Center; Ph.D., Medical University of the Americas

Scott, John, Lecturer, Mathematics; B.A., Baylor University; M.S., Purdue University

Scott, Lawrence Lowell, Assistant Professor, Educational Administration; B.A., St. Mary's University; M.A., The University of Texas at San Antonio; Ph.D., University of the Incarnate Word

Shelton, G. Robert, Assistant Professor, Chemistry; B.S., Southern Illinois University, Edwardsville; M.S., Southern Illinois University, Edwardsville; Ph.D., University of Florida

Shen, Shannon, Assistant Professor, Sociology; B.A., Hope College; M.A., Michigan State University; Ph.D., Michigan State University

Sheperis, Carl J., Professor, ; Dean of the College of Education & Human Development; Mental Health Counseling; B.A., Kutztown University of Pennsylvania; M.Ed., Duquesne University; Ph.D., University of Florida

Siegal, Lisa Dawn, Lecturer, Marketing; B.A., University of Pennsylvania; M.B.A., New York University

Simpson, Joseph Michael, Assistant Professor, Sociology; B.S., Cameron University; M.S., Oklahoma State University; Ph.D., Oklahoma State University

Sinta, Vinicio, Lecturer, Communications and Journalism; B.A., La Universidad Regiomontana, Nuevo León; M.S., Instituto Tecnológico Y de Estudios Superiores De Monterrey, Nuevo León; Ph.D., The University of Texas at Austin

Smith, John Damien, Professor, Kinesiology; B.S., The University of Texas at San Antonio; M.S., Texas A&M University-Kingsville; Ph.D., Texas Woman's University

Sosa-Fey, Josephine, Professor, Management; B.A., Our Lady of the Lake University; M.B.A., Our Lady of the Lake University; D.B.A., Nova Southeastern University

Staples, Heather Lynn, Visiting Assistant Professor, Management; Educational Specialist, University of Central Missouri; M.B.A., St. Mary's University; Ph.D., University of the Incarnate Word

Stubblefield, Marolyn W., Lecturer, Business Communications; B.A., The University of Texas at Austin; M.A., The University of Texas at Austin; M.B.A., Our Lady of the Lake University

Subramaniasiva, Bharathi, Lecturer, Physics; M.S., Bharathiar University; Ph.D., Bharathiar University

Sweet, Kenneth M., Assistant Professor, Management; B.B.A., Texas State University; M.B.A., Texas State University; Ph.D., University of Houston

Symons, Brock, Assistant Professor, Kinesiology; B.H.K., University of Windsor; M.S., University of Kentucky; Ph.D., The University of Western Ontario

Tatum, Charles H., Assistant Professional Track, Counseling and Guidance; B.S., United States Military Academy-West Point; M.S., Trinity University; Ph.D., St. Mary's University

Tejeda, Armando Roel, Lecturer, Special Education; B.A., The University of Texas at San Antonio; M.Ed., The University of Texas at San Antonio

Thomas, Ernest Edwin, Lecturer, Special Education; B.S., University of Maryland University College; M.B.A., Western New England College; M.Ed., Our Lady of the Lake University; Ph.D., Our Lady of the Lake University

Thornton, Jenifer, Lecturer, Curriculum and Instruction; B.A., Baylor University; M.A., Baylor University; D.Ed., University of Houston

Tinoco, Lizbet, Assistant Professor, English; B.A., University of California, Los Angeles; M.A., California State University, Bakersfield; Ph.D., The University of Texas at El Paso

Urban, Monica, Lecturer, Education Administration; B.S., Texas A&M University-Kingsville; M.S., Texas A&M University-Kingsville

Valdez-Barillas, Jose Rodolfo, Associate Professor, Biology; B.S., University del Valle De Guatemala; M.S., Colorado State University; Ph.D., Colorado State University

Vera, Debbie Jean, Professor, Early Childhood; B.S., Oklahoma State University; M.S., Texas A&M University-Corpus Christi; Ph.D., Texas A&M University

Vice, Tasha, Assistant Professor, Reading (Education); B.US., Eastern New Mexico University; M.Ed., Eastern New Mexico University; Ed.D., Texas Tech University

Vinaja, Bethuel Roberto, Assistant Professional Track, Computer Information Systems; B.A., University of Baja California; M.B.A., Texas Christian University; Ph.D., The University of Texas at Arlington

Voges, Kathleen Elizabeth, Professor, Management; Acting Dean of the College of Business; B.B.A., Texas State University; M.B.A., Texas State University; Ph.D., The University of Texas at Arlington

Watts, Gavin, Assistant Professor, Special Education; B.S., Illinois State University; M.Ed., University of Illinois; Ph.D., University of Texas

Weatherford, Dawn R., Assistant Professor, Psychology; B.S., Oklahoma State University; M.S., Texas A&M University-Commerce; Ph.D., Texas A&M University-Commerce

Weaver, Sara P., Lecturer, Biology; B.S., Texas State University; M.S., Texas State University

Webb, C. Lorraine (Lorrie), Professor, Curriculum & Instruction; Department Chair of Curriculum and Instruction; B.S., Indiana University-Purdue University at Indianapolis; M.S., Texas A&M University-Commerce; Ed.D., Texas A&M University-Commerce

Westermann, Edward Burton, Professor, History; B.S., United States Air Force Academy; M.A., Florida State University; Ph.D., University of North Carolina

Wilson, Jennifer Clark, Associate Professor, Reading (Education); B.S., The University of Texas at Austin; M.Ed., The University of Texas at Austin; Ph.D., The University of Texas at Austin

Wise de Valdez, Megan Rebecca, Associate Professor, Biology; B.S., University of Nebraska; M.S., University of Nebraska; Ph.D., Colorado State University

Wong, Christine, Assistant Professor, Counselor Education; B.A., University of Texas at San Antonio; M.A., University of Texas at San Antonio; Ph.D., University of Texas at San Antonio

Wooten, Ray, Professor, Counselor Education; B.A., North Carolina State University; M.A., Appalachian State University; Ph.D., University of North Carolina at Greensboro

Wu, Hsiao-Ping, Associate Professor, Bilingual Education; B.B.A., Shih Chien University-Taipei, Taiwan; M.A., The University of Texas at San Antonio; Ph.D., The University of Texas at San Antonio

Yang, Jeong-Sug, Assistant Professor, Computer Science; B.S., Hallym University, South Korea; M.S., Auburn University; Ph.D., Auburn University

## COURSE DESCRIPTION INFORMATION

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### LIST OF COURSE PREFIXES

The following are the keys to the prefixes used with the course numbers:

ACCT	Accounting	FINC	Finance
ARTS	Art	GEOG	Geography
BCOM	Business Communications	GEOL	Geology
BIOL	Biology	GOVT	Government
BLAW	Business Law	HCSA	Healthcare Administration
BUAD	Business Administration	HIST	History
CHEM	Chemistry	MATH	Mathematics
CISA	Computer Information Systems	MGMT	Management
COMJ	Communication-Journalism	MKTG	Marketing
COMM	Communication	MSCI	Military Science
CRIM	Criminology and Criminal Justice	MSPF	Military Science-Physical Fitness
CSCI	Computer Science	MUSI	Music
ECON	Economics	PHIL	Philosophy
EDAD	Educational Administration	PHYS	Physics
EDBL	Bilingual Education	POLS	Political Science
EDCG	Counseling and Guidance	PSYC	Psychology
EDCI	Curriculum and Instruction	RTVF	Radio, Television and Film
EDEC	Early Childhood	SOCI	Sociology
EDFR	Education Field Residency	SPAN	Spanish
EDHL	Health	SPCH	Speech
EDKN	Kinesiology	SSCI	Social Sciences
EDRG	Reading	STEM	Science, Technology, Engineering, and Math
EDSE	Special Education	UNIV	University Requirements
ENGL	English	WGST	Women's and Gender Studies
FESA	Fire and Emergency Services	WATR	Water Resources Science and Technology

## **COURSE NUMBERING**

Each course is represented by four capital letters followed by a four-digit numeral (e.g., ACCT 3301). The letters form an abbreviation for the instructional area while the numeral is interpreted as follows:

**First Digit:** The first digit indicates academic level and provides information regarding restrictions as to undergraduate and/or graduate student enrollment:

- 1000 level courses: undergraduate lower division, usually considered a "freshman-level" course.
- 2000 level courses: undergraduate lower division, usually considered a "sophomore-level" course.
- 3000 level courses: undergraduate upper division, usually considered a "junior-level" course.
- 4000 level courses: undergraduate upper division, usually considered a "senior-level" course.
- 5000 level courses: graduate courses.

**Second Digit:** The second digit generally indicates the amount of credit awarded. For example, a course numbered 4331 carries three semester hours of credit.

**Third and Fourth Digits:** The third and fourth digits are used to distinguish between courses within an instructional area.

## **COURSE DESCRIPTIONS**

### **ACCOUNTING (ACCT)**

#### **ACCT 2301. Principles of Financial Accounting. 3(3-0)**

This course is an introduction to the fundamental concepts of financial accounting as prescribed by US generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions.

#### **ACCT 2302. Principles of Managerial Accounting. 3(3-0)**

This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company.

#### **ACCT 3191. Accounting Experiential Learning. 1(1-0)**

Students will complete an experiential based learning project designed to complement courses within the College of Business. Students will apply and develop business skills. Prerequisites: ACCT 3302. Approval of instructor and successful completion of the business prerequisites. May be repeated once with different topics as needed and approved.

#### **ACCT 3301. Accounting for Non-Accounting Majors. 3(3-0)**

This course approaches accounting from the point of view of a business manager. Emphasis is on the source, strengths, and limitations of financial accounting information as a support for the five functions of management, i.e. planning, organizing, staffing, directing, and controlling. The course culminates in the analysis of publicly available financial statements, using both vertical and horizontal analysis techniques. This course is specifically designed for non-accounting majors. Prerequisites: ACCT 2301 and ACCT 2302 or equivalent.

#### **ACCT 3302. Intermediate Accounting I. 3(3-0)**

This course provides an examination of the source and content of basic accounting theory from the point of view of the FASB Statements of Financial Accounting Concepts and Statements of Financial Accounting Standards. Special emphasis is placed on student understanding of complex accounting processes. Emphasis on the creation and use of general journal entries, end of period adjusting entries, completion of the accounting cycle and production of income statements, changes in owners' equity, statements of cash flows, and balance sheets. Special attention is paid to issues of the measurement and

timing of revenues and expenses. This course may be completed by passing the Financial Accounting CLEP test with a minimum score of 80%. Prerequisites: ACCT 2301 and ACCT 2302, or equivalent.

**ACCT 3303. Intermediate Accounting II. 3(3-0)**

This course builds upon the concepts learned in ACCT 3311 Intermediate Accounting I providing an in depth understanding of the source and use of authoritative accounting pronouncements. The course provides an exhaustive study of the accounting for assets, with special emphasis on financial assets, including Notes Receivable and Bonds held as investments. Students will acquire practice in using the concept of the time value of money to determine the value of financial assets. The course also covers accounting principles for cash, receivables, inventories, plant assets and natural resources. Prerequisite: Admitted into the College Business, grade of "C" or better in ACCT 3302.

**ACCT 3304. Intermediate Accounting III. 3(3-0)**

This course builds upon the concepts learned in ACCT 3312 Intermediate Accounting II providing an in depth understanding of the source and use of authoritative accounting pronouncements. The course provides an exhaustive study of the accounting for liabilities and owners' Equity. Special emphasis is given to the accounting principles for long-term liabilities, stockholders' equity, income taxes, pensions, leases and statement of cash flows. Students will acquire practice in using the concept of the time value of money to determine the value of leases and long-term liabilities. Prerequisite: Admitted into the College of Business, grade of "C" or better in ACCT 3303.

**ACCT 3305. Fundamentals of Federal Income Tax. 3(3-0)**

Analysis of Federal income tax laws, emphasis being placed on the determination of net taxable income and preparation of income tax returns for individuals. Special attention is given to accounting for sole proprietorships and single-owner disregarded entities. Students who complete the course will be able to accurately determine the appropriate income tax for affluent individual taxpayers. Prerequisite: Admitted into the College of Business, and ACCT 3301 or ACCT 3302.

**ACCT 3306. Advanced Individual Federal Income Tax. 3(3-0)**

An advanced examination of the Title of the United States Code and associated regulation as it pertains to federal income taxation of individuals with emphasis upon capital gains and losses, alternative minimum tax, tax credits, and other topics not covered in ACCT 3305. Prerequisite: ACCT 3305.

**ACCT 3308. Internal Audit I. 3(3-0)**

This course is a detailed examination of the basics of internal audit. This course includes analysis of practical audit procedures found in today's global organizations. Prerequisite: ACCT 3302.

**ACCT 3309. Introduction to Federal Individual Income Tax. 3(3-0)**

This class is designed to improve your understanding of and skill on how to file the federal income tax return. You will gain knowledge on federal income tax law and know how to prepare your own income tax return. Eventually, you will have an opportunity to become a volunteer at the Volunteer Income Tax Assistance (VITA) program in San Antonio to help these low income families to receive the free tax preparation service. This course requires a passing score on a comprehensive test at completion. Prerequisite: ACCT 3301 or ACCT 3302, Corequisite: ACCT 4191. Cross-listed with BUAD 3309.

**ACCT 3314. Cost/Managerial Accounting. 3(3-0)**

This course comprises an examination of the determination and allocation of costs to specific accounting entities, such as specific products, specific processes, specific tasks, business divisions, and business departments. Additionally, methods of determining the cost of specific business activities are studied. Methods are studied for using costing, especially activity-based costing (ABC), for the five purposes of management, e.g. planning, organizing, staffing, directing, and controlling. Special attention is given to methods for using accounting information for decision making, such as make or buy, outsourcing, project acceptance, and capital investment. Prerequisites: Admitted into the College of Business, grade of C or better in ACCT 3301 or ACCT 3302.

**ACCT 3320. Internal Audit II. 3(3-0)**

This course is a detailed examination of the practice of internal audit. This course includes managing the internal audit function, risk-based audit procedures, fraud risks and controls, detecting fraud, and forensic auditing techniques. Prerequisite: Admitted into the College of Business, grade of "C" or better in ACCT 3308.

**ACCT 3328. Internship in Accounting. 3(3-0)**

An off-campus learning experience allowing the application of accounting skills in an actual work setting. Will count towards the hours required for the CPA exam only if the internship requirements set by the State Board of Public Accountancy are met. Prerequisites: Admitted into the College of Business.

**ACCT 3338. Financial Statement Analysis. 3(3-0)**

Analysis and interpretation of financial statements for the guidance of management, stockholders, and other stakeholders. Establishment of firms' business profiles; quality of earnings issues; and stock valuation. Prerequisite: Grade C or better in ACCT 3301/ACCT 3302 or equivalent. Cross-listed with FINC 3338.

**ACCT 4191. Experiential Learning – Income Tax 1(1-0)**

This class is an experiential class designed to enhance your understanding on federal income tax preparation process and become a volunteer at the Volunteer Income Tax Assistance (VITA) program in San Antonio to help these low income families to receive the free tax preparation service. In the class, we will cover the topics of ethics and review federal income tax law along with the electronic filing process. You will be required to volunteer at least three hours per week in one of the VITA programs in San Antonio or with some exception on the approved Accounting Firms. This course requires a passing score on a comprehensive test and the Standards of Conduct Exam before students can start their volunteer hours at VITA. Prerequisite: ACCT 3301 or ACCT 3302. Corequisite: ACCT 3309. Cross-listed with BUAD 4191.

**ACCT 4192. Accounting Research Experience 1(1-0)**

Guided student research in Accounting. Accounting students will explore and analyze a topic in depth and present their findings to members of the university community or professional conference or other appropriate venue. Prerequisite: ACCT 3302. Approval of instructor and success completion of the College of Business prerequisites. May be repeated once with different topics as needed and approved.

**ACCT 4307. Accounting for Government and Nonprofit Entities. 3(3-0)**

This course provides a rigorous examination of the principles and practice of fund accounting applicable to governmental and nonprofit organizations. Special emphasis is given to an understanding of the source of authority and the pronouncement of the Governmental Accounting Standards Board (GASB). Secondary emphasis is given to the unique GAAP requirements of accounting for nonprofit organizations, hospitals and health care organizations, and educational institutions. Prerequisites: Admitted in to the College of Business, senior standing and grade of C or better in ACCT 3302.

**ACCT 4311. Auditing I. 3(3-0)**

This course is a detailed examination of auditing standards, professional ethics, legal liability, evidence, internal control and audit reports. Students will prepare an extensive audit case study during the course. Emphasis is given to the preparation of audit work papers and to appropriate audit reports. Prerequisites: ACCT 3303.

**ACCT 4312. Auditing II. 3(3-0)**

This program extends the examination of the audit process studied in ACCT 4311. Emphasis is given to advanced audit topics including program planning and special reports. Secondary emphasis is given to statistical methods of determining audit risk, inherent risk, sample size, and statistical reliability. Prerequisite: ACCT 4311.

**ACCT 4313. Taxation: Flow-Through Entities. 3(3-0)**

This course teaches principles of federal taxation of sole proprietorships, partnerships, Subchapter S corporations and limited liability companies that elect to be taxed as sole proprietorships, partnerships or Subchapter S corporations. Because federal income tax law relies upon state law in determining the existence of a partnership or limited liability

company, this course will also involve the study of these entities under the Texas Business Organizations Code. Prerequisite: ACCT 3305.

**ACCT 4314. Business Combinations. 3(3-0)**

This course comprises a detailed examination of advanced accounting topics, which culminates in students preparing consolidated financial statements for business combinations, mergers and consolidations, and investments in subsidiaries. Emphasis is given to the elimination of intercompany transactions and to the issues of consolidating the statements of complex entities which have indirect and mutual holdings in other corporations. Prerequisites: ACCT 3303.

**ACCT 4315. Advanced Accounting Problems. 3(3-0)**

This course comprises a detailed examination of accounting for financial derivatives used as either speculative investments or as hedging instruments. Emphasis is given to issues of foreign currency transactions and to the translation or re-measurement of financial statements denominated in currencies other than the U.S. dollar. Secondary emphasis is given to the issues of accounting principles for partnerships, estates and trusts, debt restructuring, reorganizations and liquidations, interim financial reporting and segmentation. Prerequisites: ACCT 3303.

**ACCT 4316. Accounting Theory. 3(3-0)**

This course examines the basis and development of GAAP. GAAP is then compared and contrasted to alternative accounting systems, such as fair value accounting, inflation-adjusted accounting, and cash-based accounting. Secondary emphasis is given to current research trends in accounting academia, including topics such as positive accounting theory, efficient market hypothesis, and the capital pricing model. Prerequisites: ACCT 3302 and ACCT 3303.

**ACCT 4317. Accounting Information Systems. 3(3-0)**

This course comprises an extensive examination of the principles and procedures of the design and installation of a computerized accounting system. Emphasis is given to the use of Enterprise Resource Management (ERM) systems with integrated accounting functions. Producing information useful for decision making and control is also studied in detail. Secondary emphasis is given to issues of imbedded audit procedures in CRM and dedicated accounting applications. Prerequisites: Grade of C or better in ACCT 3301 or ACCT 3302, CISA 3358

**ACCT 4318. Advanced Income Tax Accounting. 3(3-0)**

This course comprises an examination of the taxation of corporations. Emphasis is given to the source, purpose, and effect of tax regulations applicable to partnerships and corporations. Students who complete this course will be able to accurately prepare Federal income tax returns for such businesses. Secondary emphasis is given to the application of the federal gift and estate tax. Prerequisite: Grade of C or better in ACCT 3303.

**ACCT 4319. Advanced Cost/Managerial Accounting. 3(3-0)**

This course comprises an extensive examination of the current state of managerial accounting with emphasis given activity based costing and planning (ABC). Students who complete this course will experience planning and control of cost elements, analysis of costs and profits and current topics in cost/managerial accounting. Students will also read and discuss current academic research in managerial accounting. Prerequisites: ACCT 3314

**ACCT 4321. Internal Audit III. 3(3-0)**

This course is a detailed examination of the knowledge elements that are critical to the practice of internal audit. This course includes organizational governance, risk management, business process analysis, security, financial management, and governmental legislation and regulation. Prerequisite: ACCT 3320.

**ACCT 4342. Business Law for Accountants. 3(3-0)**

Sales and commercial paper; the Uniform Commercial Code in Texas; the law of agency; business organization formulation and dissolution; accountants' legal responsibility; federal securities regulation; insurance; suretyship; property; wills, estates and trusts. Formerly BLAW 4342. Prerequisite: BLAW 3341

**ACCT 4391. Special Study in Accounting. 3(3-0)**

Study or research under supervision of instructor or small business audits. May be repeated once for credit. Prerequisite: Grade of C or better in ACCT 3303.

**ART (ARTS)****ARTS 1301. Art Appreciation. 3(3-0)**

This introduction to the visual arts is designed for the general student, as an exploration of purposes and processes in the visual arts including evaluation of selected works. This course presents a survey of the visual arts, including artistic media and techniques, and art history. Students will also explore visual principles and elements through hands-on activities. Prerequisite: TSI Reading/Writing.

**ARTS 1302. Latinx Art Appreciation. 3(3-0)**

This course is an introduction to Latinx Art and is designed for the general student, as an exploration of the particular context, history, and development of art in Latin America. This course presents a survey of the Latinx arts, including artistic media, techniques, art history, and contemporary art. Student will also explore visual principles and elements through experiential learning and community engagement. Prerequisite: TSI Reading/Writing.

**ARTS 1316. Drawing I. 3(3-0)**

This course is an introduction to drawing. Through the development of critical thinking and technical skills, students will learn how to visualize, create, and evaluate drawn images. Techniques covered will include all basic aspects of drafting and depictions of space in 2D. Besides studio assignments and group critiques there also will be slide lectures and technical demonstrations. Prerequisite: TSI Reading/Writing.

**BUSINESS COMMUNICATIONS (BCOM)****BCOM 3304. Business Communication. 3(3-0)**

Principles of business communication through letters and reports. Clear, accurate and forceful writing; practical psychology; and business reports with implication for international business. Prerequisites: ENGL 1301 and ENGL 1302.

**BIOLOGY (BIOL)****BIOL 1106. General Biology I - Laboratory. 1(0-3)**

This course provides hands-on laboratory experiences that highlight the fundamental molecular, cellular, and genetic principles characterizing living organisms. The scientific method in the discovery of these principles will be the primary focus of the hands-on activities. This course is designed for students majoring in science fields. Student majoring or minoring in biology cannot use placement exams (e.g. CLEP) to fulfill this course requirement. Students majoring in Biology must earn a C to be considered passing. Other programs with this course as a requirement may also request an earned grade of a C. Corequisite: BIOL 1306. Prerequisite: TSI Reading/Writing/Math.

**BIOL 1107. General Biology II - Laboratory. 1(0-3)**

This course provides hands-on laboratory experiences that highlight the fundamental principles concerning the biology of organisms: biodiversity, evolutionary relationships among major groups of organisms, structural/functional characteristics of these organisms, and general ecological principles of the organismal relationships. This course is designed for students majoring in science fields. Students majoring or minoring in biology cannot use placement exams (e.g. CLEP) to fulfill this course requirement. Students majoring in Biology must earn a C to be considered passing. Other programs with this course as a requirement may also request an earned grade of a C. Prerequisite: Passing grade of C or better in BIOL 1306 and BIOL 1106. Co-requisite: BIOL 1307-General Biology II - Biology of Organisms.

**BIOL 1306. General Biology I - Attributes of Living System. 3(3-0)**

This course examines the fundamental molecular, cellular, and genetic principles characterizing living organisms including the role of the scientific method in the discovery of these principles. Specific concepts include the chemical basis for life, energy transformations, cell structure and function, the metabolic processes of respiration and photosynthesis, cell reproduction, and basic concepts of heredity and genetics. This course is designed for students majoring in science fields. College Algebra is recommended prior to taking this course. This course meets the standards for the Life and Physical Sciences category of courses under the core curriculum. Students majoring or minoring in Biology cannot use placement exams (e.g. CLEP) to fulfill this course requirement. Students majoring in Biology must earn a C to be considered passing. Other programs with this course as a requirement may also request an earned grade of a C. Corequisite for students majoring or minoring in biology: BIOL 1106 – General Biology I Laboratory. Prerequisite: TSI Reading/Writing/Math.

**BIOL 1307. General Biology II-Biology of Organisms. 3(3-0)**

This course provides an overview of the diversity of life, the evolutionary relationships among major groups of organisms, and the structural/functional characteristics of these organisms. Topics emphasized will include the study of life at the organismal, population, and community level including form, function, reproduction, taxonomy, systematics, ecology and evolutionary history of biodiversity. This course is designed for students majoring in science fields. This course meets the standards for the Life and Physical Sciences category of courses under the core curriculum. Students majoring or minoring in Biology cannot use placement exams (e.g. CLEP) to fulfill this course requirement. Students whose degree program has this course as a listed requirement must earn a C to be considered passing. Prerequisite: BIOL 1306 and BIOL 1106. Corequisite for students majoring or minoring in biology: BIOL 1107 – General Biology II Laboratory.

**BIOL 1308. Introduction to Life Sciences I. 3(3-0)**

This course is designed for non-science majors and examines the basis of biology in the modern world and explores biology as a science – a data-driven process of gaining new knowledge – as well as the impact of biological science on society. Topics in this course include the study of life at the cellular level, investigating cellular structures, chemical processes, cell metabolism, cell division, gene expression and introduction patterns of inheritance. Includes experimental hands-on exercises. This course meets the standards for the Life and Physical Sciences category of courses under the core curriculum. Prerequisite: TSI Reading/Writing.

**BIOL 1309. Introduction to Life Sciences II. 3(3-0)**

This course is designed for non-science majors. Students examine the principles of organismal biology, biodiversity and ecology in the modern world and how these principles relate to issue in today's society and their broader meaning to the public. Topics in this second course include the study of life at the organismal level considering their morphology, life histories, physiology and ecology. The nature and evolution of biological diversity and how that diversity is studied is included. Experimental hands-on exercises are included. This course meets the standards for the Life and Physical Sciences category of courses under the core curriculum. Prerequisite: TSI Reading/Writing.

**BIOL 2190. Independent Study. 1(1-0)**

This is a course designed to help transfer students in biology complete the necessary degree requirements for biology particularly when their former institution did not require a laboratory section of the course. Instructor permission is required.

**BIOL 2401. Anatomy and Physiology I. 4(3-3)**

Study of the structure and function of human anatomy, including integumentary, musculoskeletal, and neural systems. With laboratory section. Prerequisite: TSI Reading. This course meets the standards for the Life and Physical Sciences category of courses under the core curriculum.

**BIOL 2402. Anatomy and Physiology II. 4(3-3)**

Study of the structure and function of human anatomy, including the cardiovascular system, lymphatic system, respiratory system, endocrine system, digestive system, metabolism, urinary system, and reproductive system. With laboratory section.

Prerequisites: BIOL 2401 - Anatomy & Physiology I. This course meets the standards for the Life and Physical Sciences category of courses under the core curriculum.

**BIOL 2406. Introduction to Plant Biology. 4(3-3)**

The course introduces the student to plant tissues and structures, basic plant cell metabolism, cell division and reproduction, genetics and evolution of plants, basic plant systematics, plants and humans, and plant ecology. With laboratory section. Prerequisites: BIOL 1307 or BIOL 1309.

**BIOL 2411. Genetics. 4(3-3)**

This class covers fundamental aspects of heredity, with an emphasis on eukaryotic systems. Topics covered include transmission genetics, linkage and gene mapping. A passing grade of C or better in BIOL 1306, BIOL 1106, BIOL 1307, and BIOL 1107. Prerequisites: BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107, and MATH 1314.

**BIOL 2415. Statistics in Biology & Medicine. 4(3-3)**

Explores the principles of probability, exploratory data analysis, experimental design and common inferential statistical techniques used in the biological and medical sciences. Emphasis is placed on the applications of these methods and practical considerations associated with their proper use. A major focus of the laboratory portion of the course is using statistical computing environments for methodological implementation and generation of high quality scientific figures. Prerequisites: MATH 1314 or equivalent, a grade of C or better in BIOL 1106, BIOL 1107, BIOL 1306, BIOL 1307.

**BIOL 2421. Introduction to Microbiology. 4(3-3)**

This course addresses the biology of an array of microorganisms including archaea, bacteria, viruses and eukaryotic microbes such as fungi. Topics will include organism morphology, structure, growth and reproduction, and use of antimicrobial compounds. Discussion of the medical, industrial, and environmental impact of microbes will be included. With laboratory section. Prerequisites: A grade of C or better in BIOL 1306, BIOL 1106, BIOL 1307 and BIOL 1107

**BIOL 2431. Cell Biology. 4(3-3)**

This course is an introduction to cell structures and how they function, with an emphasis on eukaryotic cells. Topics will include membrane structure, membrane transport, organelles, protein syntheses and folding, cellular energetics and cell cycle. Experiments and techniques used to study cell biology processes will be emphasized. With laboratory section. Prerequisites: Passing grade of C or better in BIOL 1306 and BIOL 1106.

**BIOL 2490. Topics in Biology. 4(3-3)**

Lectures, literature investigation and research in selected topics. With laboratory section. May be repeated for credit once under different topic. Prerequisite: an earned grade of C or better in BIOL 1306, BIOL 1307, and BIOL 1107

**BIOL 3104. Research Experience in Biology. 1(1-0)**

Research Experience in Biology is aimed at providing an introductory research experience in a biology faculty laboratory. Through this experience the student will gain an understanding of how research is conducted outside of a classroom and how the scientific method is actively applied in the specific discipline of the faculty research interests. Students will become part of the research team and will participate in laboratory or field activities as well as meetings/discussions. This course can be repeated for credit for a maximum of 2 credits, the second of which must be under a different faculty member and thus a different discipline in Biology. This course is recommended to be taken before BIOL 4304: Research Projects in Biology. Prerequisites: BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107. This course does not fulfill "Undergraduate Research".

**BIOL 3304. Biotechniques. 3(1-4)**

Focus on applications of modern molecular techniques that are used in biology. This course has a 1-hour seminar and two 2-hour laboratory sessions. Prerequisites: BIOL 2411

**BIOL 3375. Applied Entomology. 3(3-0)**

The characteristics, life history and identification of insects important to man, with particular reference to agriculture and disease vectors. Stress will be on control measures for harmful species. Prerequisite: BIOL 1307 or BIOL 1309

**BIOL 3401. Invertebrate Zoology. 4(3-3)**

Classification, anatomy, life history and evolution of invertebrates exclusive of insects. Prerequisite: BIOL 1307 or BIOL 1309.

**BIOL 3402. Evolution. V: 0-4(3-1)**

This course surveys the evidence for biological evolution from molecular, cellular, biochemical, embryological, paleontological, genetic, and ecological perspectives. Particular emphasis is placed on how the genetic constitutions of populations change over time and evolutionary forces that are responsible for such change. Other topics emphasized in this course include the construction and interpretation of evolutionary trees and the evolution of cooperation and sociality. The laboratory component of this course emphasizes reading the primary evolutionary biology literature and the using computer simulations to gain insights into how evolutionary forces interact. Prerequisites: BIOL 2415, Passing grade of C or better in BIOL 2411

**BIOL 3403. Plant Taxonomy. 4(3-3)**

An introductory course concerned with developing skill in recognition and identification of seed plants at the species and family levels. Emphasis will be placed on collection, use of keys and manuals and herbarium techniques. Prerequisite: BIOL 1307 or BIOL 1309

**BIOL 3405. Vertebrate Zoology. 4(3-3)**

Anatomy, classification and natural history of the vertebrates; methods of collecting, preserving and identifying local vertebrates. With laboratory section. Prerequisites: An earned grade of a C or better in BIOL 1307 or BIOL 1309. Recommended: BIOL 3402

**BIOL 3406. Animal Behavior. V: 0-4(3-1)**

General introduction to the field of animal behavior. Topics include evolution and behavior, behavioral ecology, sociobiology, communication, orientation and navigation, and hormonal mechanisms of behavior. The one hour discussion section will focus on the exploration and critical analysis of current scientific literature. With discussion seminar. Prerequisites: BIOL 1307 or BIOL 1309.

**BIOL 3407. Ecology. 4(3-3)**

This course provides the foundations of the scientific study of organisms and their environment. Basic components involved in the function and evolution of ecosystems, different ecological models, and the mechanisms that drive ecosystem changes through time will be addressed. Students will learn to approach the study of ecology from the organismal to global scale. The course will incorporate the classic concepts of ecology and will introduce the students into current theoretical and applied fields of ecology. With laboratory section. Prerequisites: BIOL 2415, An earned grade of a C or better in BIOL 1307 and BIOL 1107.

**BIOL 3408. Animal Physiology. 4(3-3)**

A study of the fundamental process of the animal systems. With laboratory section. Prerequisites: An earned grade of C or better in BIOL 1306, 1106, 1307 and 1107. CHEM 1311 and CHEM 1312

**BIOL 3409. Cellular Physiology. V: 0-4(3-1)**

This course is the study of how different biochemical, metabolic, and molecular pathways of the cell work together to produce the many functions of cells such as movement, response to hormones, growth, protein synthesis, etc. Topics of signal transduction pathways, protein targeting, secretion and endocytosis, and cellular organization and motility are covered. Cell-cell interactions and tissue formation will be discussed, including the loss of cell division control leading to cancer. With laboratory section. An earned C or better in BIOL 2411. Recommended: CHEM 2423.

**BIOL 4101. Seminar-Integrative Biology. 1(1-0)**

Student-led reviews of current scientific literature on various topics in biology with critical class analyses. Prerequisites: BIOL 3402, ENGL 2311

**BIOL 4102. Seminar-Cell & Molecular Biology. 1(1-0)**

Student-led reviews of current scientific literature on cellular and molecular biology with critical class analyses. Prerequisites: BIOL 2411 and BIOL 3409 or BIOL 4401 or BIOL 4406, and ENGL 2311.

**BIOL 4103. Seminar-Zoology. 1(1-0)**

Student-led reviews of current scientific literature on various topics in zoology with critical class analyses. Prerequisites: BIOL 3402 and BIOL 3408 or BIOL 3405 or BIOL 3401, and ENGL 2311.

**BIOL 4104. Seminar-Ecology. 1(1-0)**

Student-led reviews of current scientific literature on various topics in ecology with critical class analyses. Prerequisites: BIOL 3402 and BIOL 3407, ENGL 2311.

**BIOL 4120. Experiential Laboratory Instruction. 1(1-0)**

An introduction to laboratory instruction as an undergraduate teaching assistant. Duties will include curriculum development, preparation of laboratory exercises, weekly experimental instruction and weekly meetings with the faculty mentor. Prerequisite: An earned B or above in the course of interest, and an application submitted for review.

**BIOL 4304. Undergrad Research in Biology. V: 1-3(3-1)**

This course provides an independent review opportunity that will allow undergraduates majoring in biology to make an original intellectual contribution to the discipline. Research will be conducted in collaboration with a faculty mentor. Variable credit for a total of 3 maximum. Prerequisite: Instructor approval and BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107. Recommended: BIOL 3104. Approval of instructor is required.

**BIOL 4307. Conservation and Restoration Ecology. 3(3-0)**

This course gives the student an introduction into Conservation Biology from a conceptual perspective together with its many applications in the preservation, protection, and sustainable stewardship of life in all Ecosystems. The course will also review policy, strategies and case studies based on past and current issues. In addition to conservation the student will be introduced to Restoration Biology. Restoration and Reclamation will be introduced as a follow up step of Conservation through the analysis of case studies where human intervention affected the outcome of an ecosystem. Prerequisite: BIOL 3407.

**BIOL 4356. Topics in Biology. 3(3-0)**

Lectures in selected topics. May be repeated for credit once under a different topic. Prerequisite: BIOL 2411.

**BIOL 4360. Internship in Biology. 3(3-0)**

Internship in Biology is a course aimed at providing professional working experience in the field of biology. The sites at which students will be interns will be local and may be affiliated with the government, military, or private foundations. The student will be required to be a model employee and an exemplary ambassador of Texas A&M University-San Antonio. Students will be supervised by a site manager and by a faculty member. Students will be evaluated based on their work performance and a reflection paper describing their experience. Prerequisites: BIOL 1306, BIOL 1106, BIOL 1307, and BIOL 1107.

**BIOL 4401. Molecular Biology. 4(3-3)**

This course focuses in depth on the molecular basis of life (DNA, RNA and proteins) and the biochemical mechanisms that control expression of information in the cell. Emphasis will be on molecular techniques and experimental data analysis. With laboratory section. Prerequisites: A passing grade of 'C' or better in BIOL 2411, Recommended: CHEM 2325

**BIOL 4402. Developmental Biology. 4(3-3)**

Developmental Biology is the study of how a single cell develops into a multicellular differentiated organism. Cell signaling pathways involved and the interface between evolution and development will be a primary focus. The laboratory experience will address pathways controlling development in model organisms. Prerequisites: A passing grade of C or better in BIOL 2411.

**BIOL 4406. Bacteriology. 4(3-3)**

This course studies the diversity of the bacterial world, including the array of metabolic pathways used by different species of bacteria to inhabit a wide range of environments. Emphasis will be on mechanisms of controlling gene expression in prokaryotes, biochemical pathways of energy production and consumption, culture techniques and diagnostic methods, and use of bacteria in research. With laboratory section. Prerequisites: BIOL 2421.

**BIOL 4407. Virology. 4(3-3)**

The emphasis of this course is an over-view of viruses and host-virus interactions at the molecular and cellular level, and includes an overview of development of antiviral therapies and utilization of viral vector for gene therapy and vaccines. The mandatory recitation section will involve in-class or online discussion, evaluation, and presentation of peer-reviewed journal articles on the topic of Virology. With laboratory section. Prerequisites: BIOL 2411

**BIOL 4408. Immunology. 4(3-3)**

Fundamental concepts in Immunology covering molecular and cellular immunology as well as applied aspects. Prerequisite: BIOL 2411

**BIOL 4409. Biology of Disease Vectors. V: 0-4(3-1)**

Biology of Disease Vectors the biology and ecology of arthropods that transmit medically important diseases. Students will gain an understanding of the complex relationship between vectors and the pathogens they transmit, specifically the physiological, evolutionary, and ecological relationship. Students will also learn applied and epidemiological aspects of this complex relationship. A mandatory recitation is associated with this course. Prerequisites: Passing grade of 'C' or better in BIOL 2411 and ENGL 2311. Recommended: BIOL 3407 and BIOL 3402

**BIOL 4410. Topics in Biology. 4(3-3)**

Lectures, literature investigation and research in selected topics. With laboratory section. May be repeated for credit once under different topic. Prerequisite: BIOL 2411.

**BIOL 4411. Applications of Plant Physiology, Growth, and Development. 4(3-3)**

This course provides students an applied approach to how plants function, grow and develop in response to environmental challenges. It also addresses the physical and chemical principles that underlie physiological processes. The application of this knowledge in the context of current issues such as drought and food shortage will be addressed. The weekly laboratory session will complement the lecture, by providing hands-on experience in observation, data collection, measurement, and problem-solving skills. Prerequisite: BIOL 2406 or passing grade of C in BIOL 1307 and BIOL 1107

**BIOL 4423. Wildlife Management. 4(3-3)**

This course introduces the student to the fundamental components that are involved in wildlife management. We will approach the study of wildlife management by reviewing important ecological principles, understand the significance of conservation in wildlife management, and identify how various management efforts may be applied for sustainable wildlife populations. With laboratory section. Prerequisite: BIOL 3407.

**BIOL 4424. Field Biology. 4(3-3)**

During this course the student will learn to plan an ecological study and conduct field work. The student will be introduced to different experimental designs and procedures to study different types of organisms and their environment. With Laboratory Section. Prerequisites: BIOL 3407.

**BIOL 4425. Ornithology. 4(3-3)**

Classification, structures, physiology, natural history and field identification of birds. This course may require early morning field trips. With laboratory section. Prerequisite: BIOL 1307 or BIOL 1309

**BIOL 4426. Cellular Physiology. 4(3-3)**

Physiochemical function at the cellular level. Prerequisites: 12 semester hours of biology and CHEM 2323/2123, CHEM 2325/2125; PHYS 1301/1101 and PHYS 1302/1102 recommended.

**BIOL 4427. Herpetology. 4(3-3)**

Evolution, anatomy, physiology, behavior and ecology of amphibians and reptiles from a world-wide perspective. With laboratory section in which local forms will be emphasized. Prerequisites: BIOL 1307 or BIOL 1309

**BIOL 4429. Mammalogy. 4(3-3)**

Classification, distribution, life histories, economic importance, techniques of field study, methods of collection and preservation of mammals. With laboratory section. Prerequisite: BIOL 3402, Recommended: BIOL 3405

**BIOL 4430. Parasitology. 4(3-3)**

Introduction to parasitism with special reference to human and other vertebrate hosts. With laboratory section. Prerequisite: An earned grade of C or better in BIOL 1307 and BIOL 1107.

**BIOL 4431. Ichthyology. 4(3-3)**

Evolution, anatomy, physiology, behavior and ecology of fishes from a world-wide perspective. With laboratory section in which local forms will be emphasized. Prerequisite: BIOL 1307 OR 1309

**BIOL 4432. Primatology. 4(3-3)**

An introduction to the diversity, distribution, evolutionary history and ecological importance of primates. This course will emphasize the evolutionary and ecological principles underlying our understanding of primate behavior and how these principles inform us about our own behavior. With laboratory section. Prerequisite: An earned C or better in BIOL 1307 and BIOL 1107.

**BUSINESS LAW (BLAW)****BLAW 3341. Business Law. 3(3-0)**

This course introduces the nature and structure of the US and Texas legal systems; the basic principles of legal reasoning; and laws having as substantial impact on business including contracts, business organizations, and the Uniform Commercial Code. Prerequisites: ENGL 1301 and ENGL 1302.

**BLAW 4344. International Business Law. 3(3-0)**

This course introduces comparative law; the nature and structure of international law; international agreement governing dispute resolution, trade, the sale of goods, and direct foreign investment; and the legal risks of international business. Prerequisite: BLAW 3341

**BUSINESS ADMINISTRATION (BUAD)****BUAD 2305. Business Statistics I. 3(3-0)**

Descriptive and inferential statistical techniques for business and economic decision making. Topics include the collection, description, analysis, and summarization of data; probability; discrete and continuous random variables; the binomial and normal distributions; sampling distributions; tests of hypotheses; estimation and confidence intervals, linear regression; and correlation analysis. Statistical software is used to analyze data throughout the course. (BUSI 2305 is included in the Business Field of Study.) Prerequisite: MATH 1324 or MATH 1314, CISA 1305/1405 or CSCI 1336.

**BUAD 2310. Quantitative Skills for Business. 3(3-0)**

This course is designed to give students a business-oriented review of the basic computational math skills and a working knowledge of its mathematical applications and procedures. The course focuses on the quantitative and analytical methods in the context of practical business applications to enhance essential problem solving skills of business students. This course will provide students with solid preparation and foundation for going on to courses and careers in accounting, marketing, retailing, banking, finance, and business administration. Prerequisite: MATH 1324 or MATH 1314, CISA 1305 or CSCI 1336.

**BUAD 3101. Jaguar Tracks III: Business. 1(1-0)**

The focus of this course is discovering students' place in a business disciplinary discussion where students will demonstrate knowledge of discipline-specific academic resources, develop major issues within the business discipline, and become active members of the community within the discipline. Prerequisite: Junior or senior-level standing; UNIV 2101 or 60 or more earned academic semester credit hours; enrollment in Management and Marketing, Accounting and Finance, or Computing and Cyber Security departments.

**BUAD 3105. Professionalism in Business. 1(1-0)**

Discussions and activities related to professionalism in a workplace setting. Topics will include professional codes of ethics, business etiquette, building and maintaining a professional reputation, and teamwork. Prerequisite: BCOM 3304, successful completion of the business prerequisites.

**BUAD 3128. Internship in General Business. 1(1-0)**

An off campus learning experience allowing the acquisition and application of general business skills in a professional workplace environment. Prerequisite: Approval of the instructor, department chair, and College of Business Dean.

**BUAD 3181. Service Learning in Business. 1(1-0)**

Students will complete an off-campus project and apply business skills in a volunteer work setting. Prerequisites: Approval of instructor and successful completion of the business prerequisites.

**BUAD 3182. Business Study Abroad. 1(1-0)**

These trips will include formal participation in an organized (TAMUSA or other) study abroad program in any academic area. Students will have the opportunity to interact in the global business community on a variety of levels: business transactions, travel arrangements, and interactions with residents of the host country. Students will complete reflection assignments to apply business concepts to their international experience. Prerequisites: Approval of instructor. Corequisites may apply.

**BUAD 3191. Special Topics in Business Experiential Learning. 1(1-0)**

In this course, students will complete an experiential based learning project designed to complement courses within the College of Business. Students will apply and develop business skills. Prerequisites: Approval of instructor and successful completion of the business prerequisites. Co-requisites may apply. May be repeated with different topics as needed and approved.

**BUAD 3193. Business Speech. 1(1-0)**

Experiential learning course serving as a practicum for Business Speech presentations. Prerequisite: SPCH 1315, BCOM 3304

**BUAD 3192. Business Research Experience. 1(1-0)**

Guided student research in business. Students will explore and analyze a topic in depth and present their findings to members of the university community. Prerequisites: Approval of instructor and successful completion of the business prerequisites. May be repeated with different topics as needed and approved.

**BUAD 3110. Jaguar Business Consulting Lab. 1(1-0)**

This course will provide the students an opportunity to work on the real work business problems. The students will apply the business knowledge and skill sets that they have learned from various business courses to tackle the business problems

presented by business practitioners. Prerequisite: MKTG 3311, MGMT 3311, Completion of the College of Business prerequisites. Meets College of Business Experiential Learning Requirement.

**BUAD 3228. Internship in General Business. 2(2-0)**

An off-campus learning experience allowing the acquisition and application of General Business skills in an actual work setting. Prerequisites: Approval of the instructor, department chair, and College of Business Dean.

**BUAD 3281. Service Learning in Business. 2(2-0)**

Students will complete an off-campus project and apply business skills in a volunteer work setting. Prerequisites: Approval of instructor and successful completion of the business prerequisites.

**BUAD 3291. Special Topics in Business Experiential Learning. 2(2-0)**

In this course, students will complete an experiential based learning project designed to complement courses within the College of Business. Students will apply and develop business skills. Prerequisites: Approval of instructor and successful completion of the business prerequisites. Corequisites may apply. May be repeated with different topics as needed and approved.

**BUAD 3309. Introduction to Federal Individual Income Tax. 3(3-0)**

This class is designed to improve your understanding of and skill on how to file the federal income tax return. You will gain knowledge on federal income tax law and know how to prepare your own income tax return. Eventually, you will have an opportunity to become a volunteer at the Volunteer Income Tax Assistance (VITA) program in San Antonio to help these low income families to receive the free tax preparation service. This course requires a passing score on a comprehensive test at completion. Prerequisite: ACCT 3301 or ACCT 3302, Corequisite: BUAD 4191. Cross-listed with ACCT 3309.

**BUAD 3311. Business and Society. 3(3-0)**

This course is designed to help explore common ethical dilemmas in business and to develop appropriate decision frameworks to deal with these issues. Topics include global action in ill-defined and contrasting ethical environments, corporate social responsibility, business and external stakeholder issues (e.g., responsiveness to customers, natural environment and sustainability, influence on public policy), and business and internal stakeholder issues (e.g., employee safety, diversity, affirmative action).

**BUAD 3328. Internship in General Business. 3(3-0)**

An off campus learning experience allowing the acquisition and application of general business skills in a professional workplace environment. Prerequisite: Approval of the instructor, department chair, and College of Business Dean.

**BUAD 3360. Business Statistics II. 3(3-0)**

This course is a continuation of Business Statistics I. This series explores descriptive and inferential statistical techniques for business and economic decision making. Building on the concepts and application learned in BUAD 2305, this course focuses on the statistical concepts including, but not limited to, hypothesis testing, goodness-of-fit, tests of independence, analysis of variance (ANOVA), linear and multiple regression, and time series. Prerequisite: BUAD 2305 with a grade of C or better.

**BUAD 3381. Service Learning in Business. 3(3-0)**

Students will complete an off-campus project and apply business skills in a volunteer work setting. Prerequisites: Approval of instructor and successful completion of the business prerequisites.

**BUAD 3391. Special Topics in Business Experiential Learning. 3(3-0)**

In this course, students will complete an experiential based learning project designed to complement courses within the College of Business. Students will apply and develop business skills. Prerequisites: Approval of instructor and successful completion of the business prerequisites. Corequisites may apply. May be repeated with different topics as needed and approved.

**BUAD 3392. Special Topics in Business Administration. 3(3-0)**

Special studies in business administration. Prerequisite: Admitted into the College of Business. May be repeated with different topics as needed and approved.

**BUAD 4101. Jaguar Tracks IV: Business. 1(1-0)**

The focus of this course is discovering students' place in a professional field where students will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. Prerequisite: Senior-level standing; UNIV 3101 or BUAD 3101 or 90 or more earned academic semester credit hours; Enrollment in Management and Marketing, Accounting and Finance, or Computing and Cyber Security departments.

**BUAD 4170. Business Capstone Lab. 1(1-0)**

This class draws together all of the student's previous coursework in business, demonstrating how all functional areas of business are interrelated, and work together for organizational effectiveness. This class helps prepare students for the College of Business exit exams, and includes the administration of those exams. This course should be taken concurrently with MGMT 4370, and must be taken in the final semester before graduation. Department approval/permission required.

**BUAD 4129. Co-operative Business Experience. 1(1-0)**

An off-campus learning experience allowing the acquisition and application of general business skills in a professional workplace environment. Co-op employers partner with the College of Business to design appropriate learning experiences. Prerequisites: BUAD 3105, approval of instructor, department chair, and College of Business Dean. Application required. May be repeated with different topics as needed and approved.

**BUAD 4181. Advanced Business Service Learning. 1(1-0)**

Students will complete an off-campus project and apply advanced business skills in a volunteer work setting. Prerequisites: BUAD 3181 and approval of instructor. May be repeated with different topics as needed and approved.

**BUAD 4191. Experiential Learning-Income Tax. 1-(1-0)**

This class is an experiential class designed to enhance your understanding on federal income tax preparation process and become a volunteer at the Volunteer Income Tax Assistance (VITA) program in San Antonio to help these low income families to receive the free tax preparation service. In the class, we will cover the topics of ethics and review federal income tax law along with the electronic filing process. You will be required to volunteer at least three hours per week in one of the VITA programs in San Antonio or with some exception on the approved Accounting Firms. This course requires a passing score on a comprehensive test and the Standards of Conduct Exam before students can start their volunteer hours at VITA. Prerequisite: ACCT 3301 or ACCT 3302. Corequisite: BUAD3309. Cross-listed with ACCT 4191.

**BUAD 4192. Advanced Business Research Experience. 1(1-0)**

Guided student research in business, culminating in the presentation of the research project at a professional conference or other appropriate venue. Prerequisites: Approval of instructor and successful completion of the business prerequisites. May be repeated with different topics as needed and approved.

**BUAD 4229. Co-operative Business Experience. 2(2-0)**

In this course, students will complete an experiential based learning project designed to complement courses within the College of Business. Students will apply and develop business skills. Prerequisites: Approval of instructor and successful completion of the business prerequisites. Corequisites may apply. May be repeated with different topics as needed and approved.

**BUAD 4329. Co-operative Business Experience. 3(3-0)**

An off-campus learning experience allowing the acquisition and application of general business skills in a professional workplace environment. Co-op employers partner with the College of Business to design appropriate learning experiences.

Prerequisites: BUAD 3105, approval of instructor, department chair, and College of Business Dean. Application required. May be repeated with different topics as needed and approved.

## **CYBER ENGINEERING TECHNOLOGY (CETE)**

### **CETE 3370. Cloud Computing Infrastructure and Security. 3(3-0)**

This course introduces the cloud computing reference model for building cloud infrastructure. This model includes five fundamental layers (physical, virtual, control, orchestration, and service) and three cross-layer functions (business continuity, security, and service management). For each layer and cross-layer function, this course covers the comprising technologies, components, processes, and mechanisms. This course takes an open-approach to describe the concepts and technologies, and addresses the security issues associated with cloud computing infrastructure. Prerequisite: CSCI 3344.

### **CETE 4375. Wireless and Mobile Security. 3(3-0)**

This course examines the concepts, principles, and applications of wireless and mobile security. It discusses the evolution of wireless and mobile technology and explores security and privacy including risks, threats, vulnerabilities, and security mechanisms in wireless and mobile devices, Internet, and internetworking systems. Prerequisites: CISA 2306.

### **CETE 4380. Applied Cryptosystems. 3(3-0)**

This course begins with an overview of necessary background in algebra and number theory, private- and public-key cryptosystems, applied cryptography, and basic signature schemes. The course will cover number theory and basic theory of Galois fields used in cryptography history of primality algorithms and the polynomial-time test of primality; discrete logarithm based cryptosystems including those based on elliptic curves interactive protocols, including the role of zero-knowledge proofs in authentication; construction of untraceable electronic cash on the net and quantum cryptography, and one or more of digital watermarking, fingerprinting, and steganography. Prerequisites: CSCI 3321.

### **CETE 4385. Cyber Security Architecture. 3(3-0)**

This course will cover subjects related to security designs and architecture. The course links to a new job role called: Security Architect. A security architect designs, builds, and oversees the implementation of network and computer security for an organization. The course will be built on NNIST NICE cyber framework. Prerequisite: CSCI 3321.

### **CETE 4390. Cyber Physical Systems Security. 3(3-0)**

This course prepares students to securely design and operate physical systems with embedded software and firmware. Topics include, but are not limited to, the Internet of Things (IoT), industrial control systems, and ground, air and maritime vehicles. Cyber physical systems pose unique safety risks to system users and the public, while the rapidly expanding role of IoT is introducing new security and privacy risks to the public. Methods to assess and mitigate risk from cyber physical systems are examined. Prerequisite: CSCI 3321.

### **CETE 4392. Big Data Analytics and Security. 3(3-0)**

This course will introduce students to the concepts, principles, and application of big data analytics in the context of security. It will provide knowledge on big data analytics tools and platforms including MapReduce, Hadoop, and explore the applicability of big data analysis to identify security threats and to develop intelligent security solutions for securing software applications and business processes. Prerequisite: CSCI 2436.

### **CETE 4394. Cyber Intelligence. 3(3-0)**

This course will integrate knowledge from introductory security courses with knowledge from data science and analytics. Major subjects include: cyber operations and management, cyber defense and offense, malware analysis, and reverse engineering. This course will be built based on NIST NICE cyber framework. Prerequisite: CSCI 3321.

**CETE 4396. Internship in Cyber Engineering Technology. 3(3-0)**

An off-campus learning experience allowing the acquisition and application of cyber engineering technology skills in an actual work setting. Prerequisite: Senior standing and department chair permission.

**CETE 4481. Penetration Testing Using Python. 4(4-0)**

This four credit course will introduce Python programming language for information and cyber security applications. Students will learn the necessary theoretical background in the lecture and will learn writing Python codes in the lab for different subjects including: socket communication, web security and testing, penetration testing, ethical hacking tools and applications, encryption, operating system communication and APIs, etc. Prerequisite: CSCI 2436

**CHEMISTRY (CHEM)****CHEM 1111. General Chemistry Laboratory I. 1(0-1)**

This is the accompanying laboratory for CHEM 1311-General Chemistry I. The first semester of a two-semester sequence, the lab introduces many chemical concepts, problems, and calculations. Topics range from taking measurements, calibration, and statistical analysis, densities of solids through linear least squares analysis, verification of Boyles's Law, Charles' Law and Avogadro's Law, empirical formula of compounds, introduction to calorimetry, heat of chemical reactions introduction to Acid-Base Chemistry, introduction to pH, and gravimetric analysis. Corequisite: CHEM 1311. Prerequisite: MATH 1314.

**CHEM 1112. General Chemistry Laboratory II. 1(0-1)**

This is the accompanying laboratory for CHEM 1312-General Chemistry II. The second semester of a two-semester sequence, the lecture and required lab introduces many chemical concepts, problems, and calculations. Topics range from kinetics, colligative properties, buffers, thermodynamics, and electrochemistry. Prerequisites: CHEM 1311 and CHEM 1111 with a grade of "C" or better. Co-requisite: CHEM 1312.

**CHEM 1305. Introductory Chemistry I. 3(3-0)**

This course is designed for non-science majors. Chemistry is the relationship between energy, matter, and its interactions. Topics include the scientific method, atoms, molecules, chemical bonding, molecular structure, solutions, acid-based relations, and redox reactions. This course satisfies the Life and Physical Sciences category of courses under the core curriculum.

**CHEM 1311. General Chemistry I. 3(3-0)**

The first semester of a two-semester sequence, the course introduces many chemical concepts, problems, and calculations. Principles and quantitative relationships in chemistry that will be introduced include stoichiometry, chemical equilibrium, acid-base chemistry, thermochemistry, rates and mechanism of reactions, changes of state, solution behavior, atomic structure, periodic relationships, chemical bonding. Corequisite: CHEM 1111; Prerequisite: MATH 1314. Prerequisite: TSI Reading/Writing/Math.

**CHEM 1312. General Chemistry II. 3(3-0)**

This is the second foundation course in chemistry. The course involves applications of the concept of chemical bonds and chemical equilibria to understand molecular structure and chemical reactions. How complex chemical structures and their corresponding properties arise from simple concepts of atomic structure and the chemical bond will be the theme of the course that threads the various topics. The process of scientific discovery will be elucidated by examining the questions chemists confront through theorizing and experimentation. Prerequisite: CHEM 1311 and CHEM 1111 – both with a grade of "C" or better. Corequisite: CHEM 1112.

**CHEM 2123. Organic Chemistry Laboratory I. 1(0-1)**

Organic chemistry laboratory experiments designed to accompany CHEM 2323. Introduction to laboratory practices and procedures with emphasis on hydrocarbon chemistry. Corequisite: CHEM 2323; Prerequisites: CHEM 1312 and CHEM 1112.

**CHEM 2125. Organic Chemistry Laboratory II. 1(0-1)**

Organic chemistry laboratory experiments designed to accompany CHEM 2325. Introduction to laboratory practices and procedures with emphasis on syntheses and spectroscopy. Corequisite: CHEM 2325; Prerequisites: CHEM 2323 and CHEM 2123.

**CHEM 2171. Water and Wastewater Laboratory. 1(0-3)**

Provides instruction in chemical and microbiological analysis for nonstandard water and wastewater samples following typical laboratory procedures according to local, state and federal environmental regulatory guidelines. Students will learn to perform on-stream analysis for the measurement of inorganic and organic compounds, ions, particles and microorganisms. Students learn to conduct basic water sample testing in a lab environment. Students are provided with Texas Commission on Environmental Quality (TCEQ) industry standards and best practice protocols for establishing and maintaining a safe laboratory environment and proper equipment use in a lab setting. As projects students will conduct field experience and conduct a water analysis of a local water body. Prerequisites: CHEM 1111, CHEM 1112, CHEM 1311, CHEM 1312

**CHEM 2314. Selected Topics - Chemistry. 3(3-0)**

A course in chemistry in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. Prerequisites: permission of the instructor.

**CHEM 2323. Organic Chemistry I. 3(3-0)**

The first half of the organic chemistry sequence intended for science majors. A study of the structures, syntheses and reactions of organic compounds. Corequisite: CHEM 2123; Prerequisites: CHEM 1312 and CHEM 1112.

**CHEM 2325. Organic Chemistry II. 3(3-0)**

The second half of the organic chemistry sequence intended for science majors. A study of the structures, syntheses and reactions of organic compounds. Corequisites: CHEM 2125; Prerequisites: CHEM 2323 and CHEM 2123.

**CHEM 2371. Water and Wastewater Chemistry. 3(3-0)**

Provides instruction on the principles and practice of chemical and microbiological analysis for nonstandard water and wastewaters. Chemical and biological testing requirements of governmental regulatory agencies are examined. This course also provides an overview of the theory; processes, and technologies used in common membrane water treatment systems. Content includes micro-filtration, ultra-filtration, electrode-ionization, nano-filtration and reverse osmosis membrane technologies. Students will also examine system design considerations and membrane integration into water treatment systems. Students will also learn the theory and technologies to perform on-stream analysis for the measurement of inorganic and organic compounds, ions, particles and microorganisms. Prerequisites: CHEM 1311, CHEM 1111, CHEM 1312, and CHEM 1112.

**CHEM 3315. History of Chemistry | Study Abroad. 3(3-0)**

The history of discoveries in chemistry is often one of intrigue, competition, and excitement. In this course, students visit historical locations of interest associated with discoveries in chemistry. Sites may include homes, laboratories, hospitals, and other locations relevant to these discoveries, including travel over significant distances. Through these experiences, with guidance by faculty and expertise provided by other professionals at remote locations, students will gain an understanding of the implications of chemistry's impact in modern times and in our everyday lives. Together, we will make chemistry come alive by rediscovering locations where scientific advances actually occurred. Prerequisites: Instructor approval.

**CHEM 3451. Environmental Chemistry. 4(3-3)**

Sources and causes of land, water and air pollution; the methods of measurement and abatement. May not be counted as part of the minimum requirements for a major in chemistry. Prerequisites: CHEM 1112, CHEM 1312 and two additional 3- or 4-credit hour courses in either biology or geology or more advanced chemistry.

**CHEM 4329. Selected Topics - Organic Chemistry. 3(3-0)**

A course in organic chemistry in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. Prerequisites: permission of the instructor.

**CHEM 4339. Selected Topics - Analytical Chemistry. 3(3-0)**

A course in analytical chemistry, in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once (Maximum 6 hours). Pre-requisites: permission of the instructor

**CHEM 4341. Biochemistry I. 3(3-0)**

Introduction to the important concepts, nomenclature and compounds of biochemistry with special emphasis on the chemical interpretation of the structures and function of biological macromolecules. Prerequisite: CHEM 2325.

**CHEM 4342. Biochemistry II. 3(3-0)**

An introduction to the major biochemical cycles and pathways in living organisms, including reaction steps, regulation and mechanisms. Prerequisite: CHEM 4341.

**CHEM 4349. Selected Topics - Biochemistry. 3(3-0)**

A course in biochemistry, in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once (Maximum 6 hours). Pre-requisites: permission of the instructor

**CHEM 4359. Selected Topics - Computational Chemistry. 3(3-0)**

A course in computational chemistry, in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. Pre-requisites: permission of the instructor.

**CHEM 4379. Selected Topics - Environmental Chemistry & Toxicology. 3(3-0)**

A course in environmental/toxicology, in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once (Maximum 6 hours). Pre-requisites: permission of the instructor.

**COMPUTER INFORMATION SYSTEMS (CISA)****CISA 1305. Business Computer Applications. 3(3-0)**

Students will study computer terminology, hardware, software, security and privacy related to the business environment. Introduce and develop foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the internet. Students will study the use of web-based technologies to conduct ethical business research.

**CISA 2301. Microcomputer Assembly Language. 3(3-0)**

Theory, concepts and terminology required for competency in microcomputer assembly language programming including machine instructions; basic data types; addressing modes; arithmetic, logical and character string operations; interrupts and I/O interfaces. Formerly CIAS 4301. Prerequisite: CSCI 1337, CSCI 1137.

**CISA 2302. Business Applications Using C++. 3(3-0)**

Concepts and applications of the C++ programming language for business and industry. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 2305. Java Programming. 3(3-0)**

This course discusses concepts and applications of the Java programming languages for business and industry. Topics include the fundamentals of Java programming, control structures, methods, arrays, object-oriented programming, concepts, and other advanced topics. Prerequisite: CSCI 1336, CSCI 1136.

**CISA 2306. Computer Networks. 3(3-0)**

This course covers subjects related to computer networks including TCP/IC and OSI models, network applications, distributed systems and an introduction to network security. The course focuses on concepts, principles and technologies that enable the integration of information and telecommunications systems for support of internal and external business activities. Prerequisites: MATH 1314.

**CISA 2354. Cobol Programming I. 3(3-0)**

Fundamentals and techniques of programming in the COBOL language including program design and structure, flow charting and documentation. Formerly CISA 3354. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 3101. Jaguar Tracks III: Computer Information Systems. 1(1-0)**

In this course students will identify their skills, strengths, interests, and values as it relates to future career goals within their discipline. Students will seek opportunities to gain transferable and direct skills to apply to future career goals. Through mock interviews, writing a professional and concise resume and cover letter, and researching professional organizations, students will be prepared to become active members of the community within their discipline. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**CISA 3304. Database Systems. 3(3-0)**

This course examines file and database organization techniques including network, hierarchical, relational, object and NoSQL data models, commercially available and open source database systems, database design and implementation, query language, transaction processing, database administration and database security. Prerequisites: CSCI 1336, CSCI 1136, and CSCI 3351.

**CISA 3309. Scripting Languages. 3(3-0)**

This course introduces students to common scripting languages used in computing. It examines the overall design of scripting languages as well as the specific syntax of common scripting languages. Students will develop projects in each of the languages examined and will determine the best application environment for each of the languages examined. Prerequisite: CSCI 1337, CSCI 1137.

**CISA 3311. Project Management. 3(3-0)**

This course examines the concepts, principles, and applications of project management in the business environment, including the study of project management procedures, project management tools, organizational structure, management of project team members, and the planning, organizing, and control activities necessary for good projects. There will be an emphasis of information technology (IT) in the course lectures; however, projects do not have to include an IT component. Prerequisite: Completed 30 hours.

**CISA 3321. Information Security. 3(3-0)**

This course examines the concepts, principles, and applications of computer security in the business environment including privacy, information security, and critical infrastructure and explores the knowledge and skills needed to ensure security of information and information systems within organizations. Prerequisite: CISA 2306.

**CISA 3325. Network Security. 3(3-0)**

The course explores mechanisms for protecting networks against attacks with an emphasis placed on network security applications for the Internet and corporate networks. The course also investigates various networking security standards and explores methods for enforcing and enhancing those standards. Prerequisite: CISA 2306 or CSCI 4406, CISA 3321 or CSCI 3321.

**CISA 3328. Internship in Computer Information Systems. 3(3-0)**

An off-campus learning experience allowing the acquisition and application of information technology skills in an actual work setting. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 3351. Database Design and SQL. 3(3-0)**

Basic database design and introduction to structured query language (SQL). Includes instruction on creating user interface forms for a database. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 3352. Mobile Application Development. 3(3-0)**

This course introduces the student to the concepts, principles, and development in the major platforms including iOS, Android, and Windows. Its objective is to provide students with the tools and knowledge necessary to create applications that can run on mobile and/or smart devices. Differences between mobile and desktop computing will be investigated, sample mobile apps will be dissected, and tool suites for the development of mobile software will be covered. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 3355. COBOL Programming II. 3(3-0)**

Refinement and expansion of programming competencies in the COBOL language including structured programming, sorting, merging, file systems and access methods. Prerequisite: CISA 1336 and CSCI 1136 and CSCI 2354.

**CISA 3356. Systems Analysis and Design. 3(3-0)**

Analysis and design techniques required for implementing medium to large-scale computer information systems. Development of requirements for personnel, software and equipment for typical applications.

**CISA 3358. Management Information Systems. 3(3-0)**

A comprehensive study of the use of information technology as an organizational resource, including the implementation of disciplined processes and management development to effectively exploit the power of modern information technology. This course is specifically designed for non-computer information systems majors. Prerequisite: CISA 1305 or CSCI 1336.

**CISA 3367. Advanced Microcomputer Applications and Systems. 3(3-0)**

Study of advanced microcomputer hardware and software technologies having application in business administration. Prerequisite: CSCI 1336.

**CISA 4101. Jaguar Tracks IV: Computer Information Systems. 1(1-0)**

In this course, students will identify the various ethical issues and values as it relates to future careers within their discipline. Students will study various cases and identify the ethical issues, and seek mechanisms for addressing and resolving the issues. Through mock debates, studying, writing and presenting professional ethical analysis studies, students will be prepared to understand and address the ethical issues within their discipline. Prerequisite: CISA 3101 or 90 or more earned academic semester credit hours.

**CISA 4303. Client/Server Application Development. 3(3-0)**

Client/Server application development practices and tools. Emphasis on developing distributed database applications that support the information processing needs of business. Topics include: object-oriented program design, programming with object-oriented development platforms and the use of embedded Structured Query Language for database transaction processing. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 4312. Risk Management. 3(3-0)**

This course is an overview of the basic components of risk as they pertain to technical projects. Topics include risk identification, risk impact analysis, risk response planning, mitigating risk, and risk management techniques. Prerequisite: CISA 3311 and Senior standing.

**CISA 4313. Programming for Data Analytics. 3(3-0)**

This course introduces students to a common scripting language used in data analytics. Students will explore the latest tools techniques to help tackle the world of data acquisition and analysis. Students will review topics like scientific computing, data manipulation, machine learning, Textual Data Analysis, and Data Visualization. Prerequisite: CSCI 1337, CSCI 1137.

**CISA 4322. Information Policy Assurance. 3(3-0)**

This course explores information security policies. The course includes both sociological and psychological issues in policy implementation in general, a dialogue on information security specific policies, the structure of a policy, and the lifecycle of policy from creation to enactment. The course also exposes the student to issue specific policies in different domains of security to assist the students learn in context of real life situations. Prerequisites: CISA 3321.

**CISA 4323. Computer Forensics. 3(3-0)**

This course is an overview of the methods and tools utilized for collecting and preserving electronic digital evidence for the computer forensic process. Topics include the forensic examination, analysis, and report writing; and preparing for courtroom testimony about the forensic results. Prerequisites: CISA 3321.

**CISA 4324. Security Risk Analysis. 3(3-0)**

This course examines concepts of risk analysis, risks in engineered systems, environmental risks, security risks; methods of risk analysis, fault trees and event trees. Students will study risk assessment using penetration testing methods. . Prerequisite: CISA 3321.

**CISA 4326. Security and Operation Project. 3(3-0)**

This course combines the theoretical foundation of system security with hands-on practical application on real systems. Students will practice roles of network and system administrators and system architects from both security and business operations perspectives. Meets College of Business Experiential Learning Requirements. Prerequisite: CISA 4324 or CISA 3325.

**CISA 4331. Enterprise Resource Planning Systems. 3(3-0)**

This course examines the concepts, principles, and applications of Enterprise Resource Planning (ERP) systems. This course helps students understand the key processes of business organizations. It also improves the student's understanding of how key business processes are managed and integrated in enterprise level software used by large organizations. Prerequisite: Senior standing.

**CISA 4332. Business Intelligence/Data Mining. 3(3-0)**

This course provides an integrative foundation in the field of business intelligence and data mining. It focuses on business data warehousing, multidimensional data modeling, online analytic processing, business reporting and planning, and data mining. Prerequisite: CISA 3351.

**CISA 4333. Supply Chain Integration. 3(3-0)**

Supply chain management is the successful cross-functional integration of key business processes from the original suppliers of products, services, and information through the firm to its customers and stakeholders with an emphasis on value-added benefits. This course emphasizes the use of information technology in the supply chain management process. Prerequisite: Senior standing.

**CISA 4334. Business Process Integration. 3(3-0)**

This course provides a foundation for information system professionals who are often called upon to configure and integrate business processes. Information system professionals are often called upon to install and configure computer information systems including packages such as SAP. They must also demonstrate an understanding of how data is shared throughout the organization. This course helps students understand the key processes of business organizations. It also improves the student's understanding of how key business processes are managed and integrated in enterprise level software used by large organizations. Prerequisite: CISA 4331.

**CISA 4335. ABAP SAP Programming. 3(3-0)**

This course will introduce the student to the concepts, principles, and development in programming in ABAP. Its objective is to provide students with the tools and knowledge necessary to create applications that can run on mobile and/or smart devices. Prerequisite: CSCI 1336 and CSCI 1136.

**CISA 4358. Senior Project and Seminar. 3(3-0)**

This course will introduce the student to the concepts, principles, and applications of information systems technology in the business environment, including a study of organizational structure, management and personnel of a data center, and the planning, organizing, and control activities necessary for good management of the information systems resource. Students will also complete an information system development project. Meets College of Business Experiential Learning Requirements. Prerequisites: CISA 3351, CISA 3356.

**CISA 4359. Advanced Problems in Computer Information Systems. 3(3-0)**

Research in selected fields of computer information systems. Prerequisite: consent of instructor. May be repeated once for additional credit. Prerequisites: CSCI 1336 and CSCI 1136 and Senior standing.

**COMMUNICATION-JOURNALISM (COMJ)****COMJ 3302. Interviewing. 3(3-0)**

Many individuals seek information through the interview. Differing from conversation, interviewing is a purposeful, planned form of interpersonal communication. In this course, both theory and application of skills are emphasized, the premise of the class being that interviewing is an art as well as a skill that one can learn to use well. Prerequisite: COMM 3301.

**COMJ 3303. Creative Nonfiction Writing. 3(3-0)**

Identifying and developing feature story ideas. Reporting and writing feature articles and arranging appropriate pictures for publication in newspapers or periodicals. Emphasis on training students in identifying markets for nonfiction writing. Prerequisite: COMM 3301.

**COMJ 3310. Media Design. 3(3-0)**

This course involves the use of the computer as a powerful creative tool. The modular structure is designed specifically to emphasize the following specific Adobe Cloud design programs and their relevance when solving design problems and developing creative solutions using Adobe Illustrator, Adobe Photoshop, Adobe InDesign and Adobe Bridge. Prerequisite: COMM 1307.

**COMJ 3311. Magazine Design and Production. 3(3-0)**

This course introduces the student to the principles governing page layout and the design of publications. Topics covered include the basic principles of effective typography; the use of grids; integration of graphics and photos into publications; basic information design principles, working with spot, process color and separations, principles of page assembly and other methodologies to design and produce a variety of single- and multi-page publications. Prerequisite: COMM 1307.

**COMJ 3321. Principles of Advertising. 3(3-0)**

Advertising writing, layout, typography and art work. Advertising campaigns, selling, practice exercises and advertising work for publication. Prerequisite: Junior or senior-level standing.

**COMJ 3326. Visual Journalism. 3(3-0)**

In this course, students will learn how words and visuals work together to create stories and explore new ways of presenting content digitally. The course will cover the basics of visual journalism, including typography, layout and design, photography, interactive graphics and multimedia. Students will have an opportunity to build a foundation in design and visual storytelling, which are essential as journalism and all industry become more reliant on digital media. Students will learn Adobe InDesign and Photoshop, Google Fusion Tables, Soundslides, Audacity, and iMovie to help them produce projects that communicate content and ideas visually. Prerequisite: COMM 2305/2309, COMM 2311 or COMM 3300 as a substitution.

**COMJ 3327. Digital Photojournalism. 3(2-1)**

In this course, students will learn how words and visuals work together to create stories and explore new ways of presenting content digitally. The course will cover the basics of visual journalism, including typography, layout and design, photography, interactive graphics and multimedia. Students will have an opportunity to build a foundation in design and visual storytelling, which are essential as journalism and all industry become more reliant on digital media. Students will learn Adobe InDesign and Photoshop, Google Fusion Tables, Soundslides, Audacity, and iMovie to help them produce projects that communicate content and ideas visually. Prerequisite: COMM 2305.

**COMJ 3328. Photojournalism I. 3(3-0)**

This course teaches the basics of digital news photography. In addition to teaching students how to operate digital cameras and process digital photos, this course will present the problems and practices of photography for newspapers, magazines and the Internet. Students are introduced to the important role of photojournalism in the society and learn how to produce different categories of photojournalism that apply to news reporting through reading, class discussion, and practicing. Prerequisite: COMM 2300.

**COMJ 4301. History of Journalism. 3(3-0)**

Development of the newspaper in England and the United States with attention to the social, economic and political forces which brought about changes in journalistic techniques and in basic ideas as to newspaper functions. Study of the careers of noted journalists. Prerequisite: Junior or senior-level standing.

**COMJ 4302. Opinion Writing. 3(3-0)**

Purpose and style of editorial comment. Editorial page editing. Prerequisite: COMM 3301.

**COMJ 4322. Public Relations. 3(3-0)**

Principles of public relations and their application in business, industry, education, government, social agencies and other institutions; the media of public relations; research methods used in public relations; journalistic implications of the public relations process. Case studies and analysis. Practice in public relations planning and writing. Prerequisite: Junior or senior-level standing.

**COMJ 4323. Public Relations Strategies. 3(3-0)**

Public Relations Strategies introduces students to the strategic planning process involved in putting together and coordinating organizational public relations efforts. In this course, students will learn what is involved in developing,

implementing and evaluating public relations strategies. The course provides insights on understanding an organization's internal and external environment as well as identifying and addressing public relations situations that emerge in these environments. Prerequisite: COMJ 4322.

**COMJ 4325. Writing for Public Relations. 3(3-0)**

The skills-based course teaches students how to write and produce public relations materials, including news releases, backgrounders and talking points, media kits, advertising, fund-raising letters, grant proposals, speeches, and other promotional copies. Prerequisite: COMJ 4322.

**COMJ 4326. Public Relations Case Studies. 3(3-0)**

Examines solutions to public relations problems through an analysis of actual corporate and association cases. The focus will emphasize successful public relations management and practice through the systematic application of defining, planning and programming, acting and communicating, and evaluating results. Prerequisite: COMJ 4322.

**COMJ 4327. Photojournalism II. 3(3-0)**

This advanced course presents the problems and practices of photography for newspapers. It includes instruction on camera and equipment operation and maintenance, and digital photo darkroom processing for printing media. The emphasis is on journalistic communication through photographs. This class provides training under deadline pressure in a variety of basic photojournalistic situations. Prerequisite: COMJ 3328.

**COMJ 4335. Video Production and Editing. 3(3-0)**

This course is designed to teach the basic principles of video production. It offers a conceptual introduction and practical experience on how to shoot video that is steady, in focus, well framed and, most importantly, tells a story. The course provides students with the basic foundations necessary to create videos from initial idea to finished video. Focus is placed on pre-production, production and post-production skills and techniques. Professionalism, leadership and teamwork are also emphasized. Prerequisite: Junior or senior-level standing.

**COMJ 4337. Advanced Television Production and Direction. 3(2-4)**

Mastery of television equipment utilization both in the studio and field. Practical experience in electronic news gathering and electronic field production for educational television. Prerequisite: COMS 3337.

**COMMUNICATION (COMM)**

**COMM 1307. Introduction to Mass Communication. 3(3-0)**

An examination of the structures, functions, and historical development of the major mass media industries, as well as the impact they have had on American Society. Prerequisite: TSI Reading/Writing.

**COMM 1335. Survey of Radio and Television. 3(3-0)**

This is a survey course focusing on historical, technical, and governmental aspects of the broadcast industry. Topics such as programming, sales, ratings, and public broadcasting will be introduced. This course is required for Radio and Television Broadcasting majors. Prerequisite: COMM 1307.

**COMM 2300. Multimedia Literacy. 3(3-0)**

Students in this course obtain practical skills and acquire working knowledge of the textual, aural and visual content-producing methods and formats in use by mass media. Using a relevant software foundation that includes smartphone applications, Audacity, Adobe Photoshop, InDesign, and Illustrator, students create content as well as analyze and critique professional media, based on an understanding of the function, roles and legal/ethical responsibilities of mass media in society. Prerequisite: COMM 1307.

**COMM 2305. News Editing. 3(3-0)**

Editing and layout processes, with emphasis on accuracy and fairness, including the principles and techniques of design. Prerequisite: COMM 2311.

**COMM 2311. Media Writing. 3(3-0)**

Fundamentals of writing for the mass media. Includes instruction in professional methods and techniques for gathering, processing, and delivering content. Prerequisite: COMM 1307.

**COMM 2327. Introduction to Advertising. 3(3-0)**

Fundamentals of advertising including marketing theory and strategy, copywriting, design, and selection of media. Prerequisite: COMM 1307.

**COMM 2330. Introduction to Public Relations. 3(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. Prerequisite: COMM 1307.

**COMM 2339. Writing for Radio/TV/Film. 3(3-0)**

An introduction to a range of methodologies for developing ideas, scripts and structural tactics for broadcast and short videos. Emphasis will be placed on traditional storytelling strategies, as well as experimental scripting and alternative notational techniques. Prerequisite: COMM 1335.

**COMM 3101. Jaguar Tracks III: Communication. 1(1-0)**

The objective of COMM 3101 is to help students investigate the historical profession. Students will discover their place within their own Communication major's disciplinary practices and values. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**COMM 3301. Reporting. 3(2-1)**

Theory and practice in news gathering and writing; types and techniques of public affairs reporting. Lab assignments include coverage of university departments and activities, municipal and county government, schools and courts either with the university newspaper or other university publication approved by Department Chair. Lab requires use of computers as editing terminals and data bases. Prerequisite: COMM 2305.

**COMM 3303. Computer-Assisted Reporting. 3(3-0)**

This course introduces students to the techniques of computer-assisted reporting, using the computer as a tool for news gathering and data analysis. Students will review statistics and mathematical relationships, such as percentage change, and analyze data using a spreadsheet. Students will learn about the legal aspects of computer-assisted reporting. Prerequisite: COMM 2305.

**COMM 3304. Multimedia Storytelling. 3(3-0)**

An introduction to basic elements of multimedia journalistic storytelling, including audio, video, slideshows, and online journalism formats. Prerequisite: COMM 2305.

**COMM 3305. Web Design Principles. 3(3-0)**

This hands-on roll-up-your-sleeves course covers CSS, JavaScript and PHP needed in an online newsroom. The course covers fundamental design principals such as grid-based Web design, color, typography and data visualization tools. Each student in the course will work their way up to creating a personal portfolio site in WordPress. Critical thinking will be encouraged through class interactions, projects, and online postings. Prerequisite: Junior or senior-level standing.

**COMM 3308. Radio and TV News and Script. 3(2-3)**

Writing correctness, clarity and style in radio and television: includes collecting, writing and editing news, continuity, drama, address and commercial copy.

**COMM 3310. Social Media for Journalists. 3(3-0)**

The purpose of this course is to provide journalism students with a hands-on opportunity to learn about the social media tools (1) that are being used now by many professional journalists and (2) that will be required to work in the field of professional journalism in the future. Students will be required to create and maintain classroom accounts on various social media platforms including Twitter, Instagram, and Wordpress. Prerequisites: COMM 3301.

**COMM 3340. Professional Presentation. 3(3-0)**

Fundamentals of professional presentations including organizational culture competencies, business correspondence, problem solving, and persuasive proposals. Emphasis on the integration of oral presentation with written, graphic, and other media materials. Prerequisite: COMM 2305.

**COMM 3350. Theories of Communication. 3(3-0)**

This course is designed to introduce students to the world of communication theory. Communication theory allows students to learn about communication research, which in turn allows them to learn more about the different ways that people communicate with each other. In this course, students will discuss what researchers have found over the years about how, why, and to what effect people communicate with each other. Prerequisite: Junior or senior-level standing.

**COMM 3351. Media Effects. 3(3-0)**

This course is designed to introduce students to theory, research methods, and research findings concerning the impact of the mass media on the individuals who consume it and on society in general. Course content includes: (1) An introduction to theory and how theory is used to generate research questions; (2) an introduction to research methods and the use of statistics; (3) a discussion of effects models and research paradigms; (4) examples of early classic media research and theory development; and (5) examples of contemporary media theory and effects studies. Prerequisite: Junior or senior-level standing.

**COMM 3360. Intercultural Communication. 3(3-0)**

A theoretical and practical survey of the communication between different co-cultures in the United State and different cultures of the world. This course will examine distinctive cultural orientations, behaviors, expectations, and values that affect our ability to communicate effectively with people from diverse cultures and co-cultures. Students will also learn the similarities, differences, and connections between intercultural communication in different dimensions (interpersonal, intrapersonal, public, mass, social media). Prerequisite: COMM 2300, COMM 2305, COMM 2311, COMM 2327, COMM 2330, OR COMM 2339

**COMM 4101. Jaguar Tracks IV: Communication. 1(1-0)**

The focus of COMM 4101 is discovering students' place in a professional field where students will demonstrate knowledge of a professional. Prerequisite: UNIV 3101 or COMM 3101 or 90 or more earned academic semester credit hours.

**COMM 4301. Reporting II-Mesquite. 3(3-0)**

Advanced Theory and practice in news gathering and writing; types and techniques of public affairs reporting. Lab assignments include coverage of university departments and activities for The Mesquite, the student-produced campus newspaper of Texas A&M University-San Antonio. Course may be repeated for a maximum of 6 semester hours of credit. Prerequisite: COMM 3301.

**COMM 4306. Selected Topics in Communication. 3(3-0)**

The study of literature and research in areas of communication. Includes such topics as international press, or yearbook production, semantics and history of public address. Maybe repeated once for credit when topic varies. Prerequisite: 6 semester hours of communication, journalism and/or speech.

**COMM 4310. Persuasion. 3(3-0)**

This course is a study of motivational appeals and social scientific approaches to creating and evaluating persuasive messages. Emphasis will be on applying theories to both analyzing examples and creating appeals under different

circumstances. The components and functions of different forms of persuasion will be carefully reviewed at different levels (cognition, affection, and behavior). Prerequisite: COMM 3301, COMM 3303, COMM 3304, COMM 3305, COMM 3308, COMM 3310, COMM 3340, COMM 3350, COMM 3351, or COMM 3360.

**COMM 4315. Media Ethics. 3(3-0)**

This course will (1) examine philosophical and moral problems relating to the current state of the mass media and (2) use the case study method to analyze ethical decision-making processes. Topics will include ethical concerns and dilemmas in news, advertising, public relations and entertainment. Prerequisite: Junior or senior-level standing.

**COMM 4317. Mass Media, the Public and the Law. 3(3-0)**

Legal and ethical limitation and responsibilities of the mass media, relationship and interaction between broadcaster, governmental regulatory agencies and the public. Prerequisites: 6 semester hours of journalism and/or radio-TV and junior or senior-level standing.

**COMM 4391. Independent Study in Communication. 3(3-0)**

Intensive work in a special area of the student's major or minor. A maximum of 6 semester hours of credit in independent study may be applied toward graduation. Prerequisite: Junior or senior-level standing.

**COMM 4392. Internship. 3(3-0)**

Supervised professional experience in a media outlet, public relations office or other media-related setting. Jointly supervised by on-campus faculty and off-campus representatives at the internship site. Student may repeat this class for a maximum of six semester credit hours. Prerequisites: COMM 2305 and approval of communication faculty.

**COMM 4393. Senior Communications Seminar. 3(2-3)**

Designed as the capstone course for Communications majors. By working on a capstone project that draws on prior coursework, students not only utilize their critical thinking skills in synthesizing previous coursework, but also extend and develop their own original ideas. Prerequisites: Senior standing; completion of 18 COMM, COMJ, or COMS hours; and successful completion of all 3000-level and below COMM and COMJ required courses.

**CRIMINOLOGY AND CRIMINAL JUSTICE (CRIM)**

**CRIM 1301. Introduction to Criminal Justice. 3(3-0)**

Introduction to the administration of justice in American society, with emphasis on the principles of policing, corrections, juvenile delinquency, criminal law, courts and criminal procedure, as well as policy formulation. Prerequisite: TSI Reading/Writing.

**CRIM 2330. Theories of Crime Causation. 3(3-0)**

Study of criminal behavior and methodology; causation; typologies of criminal acts and offenders; punishment, corrections and incapacitation; prevention of crime. Prerequisite: TSI Reading/Writing.

**CRIM 3302. Social Deviance. 3(3-0)**

Survey of the sociological and psychological aspects of deviant behavior. Nature of deviance, types of deviant behavior, causal theories and social policy implications. (Credit may not be obtained in both CRIM 3302 and SOCI 3302.) Prerequisites: SOCI 1301 and 3 semester hours of Criminology or Sociology.

**CRIM 3315. Drugs and Crime. 3(3-0)**

This course is designated to introduce students to the world of illegal drugs and the criminal justice response to them. Throughout the course we will discuss the use of certain psychoactive drugs before they were banned, the process of making drugs illegal and the current laws we have in place for psychoactive drugs, how drugs work in the body to produce

their effects, the drug/crime connection, and the specific psychoactive drug categories. The major goal of this course is to teach students how to think critically about drug use and drug related issues.

**CRIM 3322. Juvenile Delinquency. 3(3-0)**

Incidences, types, causation, patterns, processes, treatment agencies and research as related to juvenile delinquency. (Credit may not be obtained in both CRIM 3322 and SOCI 3322.) Prerequisite: SOCI 1301.

**CRIM 3330. Community Perspectives of Crime. 3(3-0)**

Examines community measures of crime control and the social, political, economic issues affecting them. Specific emphasis will be given to situational crime prevention, community corrections, community policing and the geographic distribution of crime within urban areas.

**CRIM 3341. Comparative Justice Systems. 3(3-0)**

Critique of the differing policies, practices, and operations of crime and justice internationally. Specific attention will be directed to U.S./Mexico, U.S./Canada, and U.S./European relations.

**CRIM 3345. Police in Society. 3(3-0)**

Examines the central issues of enforcing law and promoting public safety in society with emphasis placed on both internal organizational issues of police administration and external enforcement operations.

**CRIM 3350. Crime and Justice Policy. 3(3-0)**

This course covers major policy issues dealing with crime control and the criminal justice system. Law enforcement, corrections, civil liberties and court processes are main areas in which public opinion and policy are in current controversy and debate. Prerequisites: CRIM 1301, CRIM 2330, and ENGL 1302.

**CRIM 3355. Criminal Justice Organizations. 3(3-0)**

An overview of the various economic, social, and political factors that influence criminal justice organizations as well as the policies these agencies create. The course also examines major theories and structures of criminal justice organizations.

**CRIM 3357. Border Security Issues. 3(3-0)**

Examines cultural, historical, biographical, political, economic, crime and violence related border security and protection issues that influence criminal justice organizations, the criminal justice system, and national security.

**CRIM 3358. Introduction to Intelligence Analysis. 3(3-0)**

Overview of intelligence and security issues defines critical terms and methodologies. Examines intelligence issues that influence criminal justice organizations, the criminal justice system, and national security and reviews the history of the intelligence community and intelligence practices in the United States.

**CRIM 3380. Statistics for Criminology. 3(3-0)**

Statistics for students in criminology. Emphasis on descriptive and inferential techniques with a focus on criminology and criminal justice issues. Basic concepts include organizing and analyzing data, interpreting results, and choosing appropriate statistical techniques for specific research questions. Prerequisites: CRIM 1301, CRIM 2330, ENGL 1302, and MATH 1314 or MATH 1342.

**CRIM 3385. Criminal Law. 3(3-0)**

Overview of the law, definition of crime, general principles of criminal responsibility, elements of major crimes, punishments, and conditions or circumstances that may excuse from criminal responsibility or mitigate punishment. Particular emphasis is on the penal laws of the State of Texas. Prerequisites: CRIM 1301, CRIM 2330, and ENGL 1302.

**CRIM 3388. Courts and Criminal Procedure. 3(3-0)**

Examines the structure of the court system in the United States, the constitutional basis for criminal procedure, the criminal justice process, including the pretrial process, the role of prosecutors, grand juries and defense attorneys in trial, plea bargaining and guilty pleas, and the appeal process. Prerequisites: CRIM 1301, CRIM 2330, ENGL 1302, and POLS 2301.

**CRIM 4184. Directed Research in Criminology. 1(1-0)**

Supervised research experience in criminology. Student will assist with a research project under the individual guidance of a faculty member. Requirements may include library research, data collection, data entry, statistical analysis, manuscript drafting, and/or assistance in planning and conducting parts of a research project. A paper on the research experience is required. May be repeated for a maximum of 6 semester hours of credit. Total cumulative hours in CRIM 4384, CRIM 4284, and CRIM 4184 may not exceed 6 hours. Prerequisites: CRIM 1301 and CRIM 2301, instructor's approval and cumulative GPA of 3.0 or higher.

**CRIM 4284. Directed Research in Criminology. 2(2-0)**

Supervised research experience in criminology. Student will assist with a research project under the individual guidance of a faculty member. Requirements may include library research, data collection, data entry, statistical analysis, manuscript drafting, and/or assistance in planning and conducting parts of a research project. A paper on the research experience is required. May be repeated for a maximum of 6 semester hours of credit. Total cumulative hours in CRIM 4384, CRIM 4284, and CRIM 4184 may not exceed 6 hours. Prerequisites: CRIM 1301 and CRIM 2301, instructor's approval and cumulative GPA of 3.0 or higher.

**CRIM 4320. Law and Society. 3(3-0)**

An in-depth examination of law and society through the philosophy and evolution of legal systems and legal institutions. The major functions of law as agents of social control, dispute resolution and societal engineering are addressed. (Credit may not be obtained in both CRIM 4320 and SOCI 4320.) Prerequisites: SOCI 1301 and 3 semester hours of Criminology or Sociology.

**CRIM 4326. Community Resources in Correction. 3(3-0)**

An analysis of correctional processes and facilities available at the community level. Topics include: probation, parole, diversion, halfway houses, community reintegration procedures, community treatment centers and volunteer programs. Emphasis is placed on social structure, functions and problems of community-based programs.

**CRIM 4335. Corrections. 3(3-0)**

This course introduces students to the history and background of American corrections and the central theories of punishment and treatment. Special attention will be devoted to contemporary practices and problems facing the correctional system, such as prisoner management, offender rehabilitation, and programs designed to maintain security within the prison. Prerequisites: CRIM 1301, CRIM 2330, and ENGL 1302.

**CRIM 4340. Topics in Criminology. 3(3-0)**

Literature and research in the area of criminology not otherwise treated in depth in available courses. Topics will vary according to needs, interests and capability of the instructor. May be repeated once for credit when topic differs.

**CRIM 4342. White Collar Crime. 3(3-0)**

An in-depth view of the social, structural, organizational, and criminological factors leading to the development of white collar crime and criminal activity; the nature, extent, types, costs, structure and control of white collar crime will be addressed. Along with their explanations, theories, accounts, investigation, adjudications, and regulations, this course will provide an in-depth view and an examination of the social, structural, occupational, political and organizational/corporate factors leading to the development of white collar criminal activity. Through critical analysis, discussions, presentations, and research, students will trace, present, and report on the evolution of white collar crime and related criminal activity. Readings will include factual accounts of the United States and international Criminal Justice system partners, white collar

crime initiatives and current intelligence reports as they relate to criminology, criminal justice, and public media sources. Prerequisites: 6 hours of CRIM.

**CRIM 4343. Organized Crime. 3(3-0)**

From mainstream media to movies to books, the topic of organized crime, i.e., who they are, what they do, and how do they do it, has fascinated, frustrated and inspired imaginations all around the world. What looks glamorous, or exciting, or profitable is deadly, destructive, costly, and increasingly difficult to control by conventional elements of the criminal justice system. Along with their explanations, theories, accounts, investigations, adjudications, and regulations, this course will provide an in-depth view of the social, structural, and organizational factors leading to the development of organized crime activity. Through critical analysis, discussions, presentations, and research, students will trace, present, and report on the evolution of organized crime and related criminal activity such as, human, drug, and weapons trafficking, cartel activity, public corruption, crimes against people, crimes against property, bulk money transfers and money laundering. Readings will include factual accounts of the United States and international criminal justice system, partner's organized crime initiatives and current intelligence reports as they relate to criminology, criminal justice, national security, and public media sources. Prerequisites: 6 hours of Criminology

**CRIM 4345. Victimology. 3(3-0)**

An examination of the historical role of crime victims, nature of victimization in modern society, the victimization process, solutions to victimization and victim's rights. Emphasis given to the social, legal, psychological and societal aspects of victimization. Victim/offender interaction and societal response to victimization will also be examined.

**CRIM 4346. Gangs and Gang Behavior. 3(3-0)**

Gangs and gang behavior from a cross-cultural perspective. The historical evolution of gangs in America and Europe. Emphasis on the causes, consequences and social control of gangs in society.

**CRIM 4348. Violence. 3(3-0)**

Types of violence from a historical and cross-cultural perspective, identifying and delineating patterns of violent behavior. Social structure and culture are linked to violence and examined in the context of individuals, groups and societies. Emphasis is placed on the social control of violence.

**CRIM 4349. Mental Illness and Violence. 3(3-0)**

This course examines the relationship of mental illness to crime by reviewing current empirical research. Programs and policies concerning the treatment of mentally disordered persons are also covered.

**CRIM 4350. Seminar in Criminology. 3(3-0)**

The capstone course for the Criminology degree major. The course integrates theory with practical aspects of the criminal justice system. Specific interest is given to contemporary research in criminology, including policing, corrections and judicial systems. Prerequisites: CRIM 1301, CRIM 2330, CRIM 3350, and ENGL 1302.

**CRIM 4360. Criminology Internship. 3(3-0)**

This course provides students the opportunity to integrate traditional learning exercises with practical experience in the criminal justice system. Prerequisites: CRIM 1301 and CRIM 2330.

**CRIM 4370. Research Methods in Criminology. 3(3-0)**

Examines methods of crime and justice research. Topics include the nature of scientific inquiry, framing a research problem, choosing a research design, developing hypotheses, sampling designs, and measuring variables. Prerequisites: CRIM 1301, CRIM 2330, and ENGL 1302.

**CRIM 4384. Directed Studies in Criminology. 3(3-0)**

Supervised research experience in criminology. Students will assist with a research project under the individual guidance of a faculty member. Requirements may include library research, data collection, data entry, statistical analysis, manuscript

drafting, and/or assistance in planning and conducting parts of a research project. A paper on the research experienced is required. May be repeated for a maximum of 6 semester hours of credit. Prerequisites: CRIM 1301 and CRIM 2301, instructor's approval, and cumulative GPA of 3.0 or higher.

## **COMPUTER SCIENCE (CSCI)**

### **CSCI 1136. Programming Fundamentals I Laboratory. 1(0-3)**

This is the accompanying laboratory for CSCI 1336: Programming Fundamentals I. Students will work hands-on in a computer laboratory to write programs on topics in software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. Meets College of Business Experiential Learning Requirements. Prerequisites: Math 1314 or equivalent. Corequisites: CSCI 1336.

### **CSCI 1137. Programming Fundamentals II Laboratory. 1(0-3)**

This is the accompanying laboratory for CSCI 1337: Programming Fundamentals II. Students will work hands-on in a computer laboratory to write programs on topics in the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design as well as abstract data types. It provides additional experience with advanced programming concepts and applies the basic concepts of efficiency in algorithm development and implementation. Meets College of Business Experiential Learning Requirements. Prerequisites: CSCI 1336 and CSCI 1136. Corequisite: CSCI 1337.

### **CSCI 1336. Programming Fundamentals I. 3(3-0)**

This course introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. Prerequisites: MATH 1314 or equivalent. Corequisite: CSCI 1136.

### **CSCI 1337. Programming Fundamentals II. 3(3-0)**

This course introduces and applies the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design as well as abstract data types. It provides additional experience with advanced programming concepts and applies the basic concepts of efficiency in algorithm development and implementation. Prerequisites: CSCI 1336 and CSCI 1136. Corequisite: CSCI 1137.

### **CSCI 2322. Discrete Structures for Computing. 3(3-0)**

This course provides the mathematical foundations from discrete mathematics for analyzing computer algorithms, for both correctness and performance; introduction to models of computation, including regular expressions, finite state machines and Turing machines. Prerequisites: CSCI 1337 and CSCI 1137.

### **CSCI 2353. Web App Programming. 3(3-0)**

This course covers the fundamental concepts of designing and developing web application. The content is focused on strategies and techniques for designing and structuring web applications. Topics include designing interfaces in HTML, CSS, and JavaScript, writing basic scripts in PHP, and working with databases on a client-server architecture. Prerequisite: CSCI 1137, CSCI 1337.

### **CSCI 2325. Computer Organization. 3(3-0)**

This course introduces basic computer organization; digital representation of data and instructions; computer arithmetic, logic and shift units, data formats, address models, instruction sets and microcode (general Assembly language), systems including caches, and design of simple computer. Prerequisites: CSCI 1337 and CSCI 1137.

### **CSCI 2436. Programming Fundamentals III. 4(4-0)**

This course introduces the fundamental concepts of data structures and expands on the concepts control structure, data types and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash

tables, trees, and graphs), and algorithmic analysis. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. Course includes lab component for lab based exercises. Prerequisite: CSCI 1337, CSCI 1137.

**CSCI 3101. Jaguar Tracks III Computer Science. 1(1-0)**

In this course students will identify their skills, strengths, interests, and values as it relates to future career goals within their discipline. Students will seek opportunities to gain transferable and direct skills to apply to future career goals. Through mock interviews, writing a professional and concise resume and cover letter, and researching professional organizations, students will be prepared to become active members of the community within their discipline. Prerequisite: 60 or more earned academic semester credit hours.

**CSCI 3304. Database Systems. 3(3-0)**

This course examines file and database organization techniques including network, hierarchical, relational, object and SQL data models, commercially available and open source database systems, database design and implementation, query language, transaction processing, database administration and database security. Prerequisites: CSCI 2436.

**CSCI 3321. Cyber Security. 3(3-0)**

This course will introduce students to the concepts, principles, and applications of cyber security including privacy, information security, and critical infrastructure. This course will explore the knowledge and skills needed to ensure security of information and computer systems within organizations. Prerequisites: CSCI 1137, CSCI 1337, and CSCI 2436 or CISA 3309.

**CSCI 3343. Algorithms. 3(3-0)**

This course provides the basic tools to give students the ability to select algorithms appropriate to particular purposes and to apply them, recognizing the possibility that no suitable algorithm may exist. It examines the range of algorithms that address important sets of well-defined problems, recognizing their strengths and weaknesses, and their suitability in particular contexts. Time and space efficiency is a pervasive theme throughout this course. Prerequisites: CSCI 2436, MATH 2314, and MATH 2114.

**CSCI 3344. Computer Architecture. 3(3-0)**

This course introduces Basic Processor Design; Performance Evaluation; Pipelining; Memory Hierarchies: Caches, virtual memory; input/output and storage; Introduction to Instruction Level Parallelism. Prerequisite: CSCI 2325.

**CSCI 3352. System Programming. 3(3-0)**

A programming intensive course that investigates program implementation theory, methods, and tools, as well as system utility programming using operating system programming interfaces and system calls to provide computer and process management capabilities. Prerequisites: CSCI 2325 and CSCI 2436.

**CSCI 3353. Applications Programming. 3(3-0)**

A programming intensive course that introduces key topic areas in Computer Science, such as graphics, intelligent systems, simulation and modeling, and parallel and distributed processing. Formerly CSCI 3351. Prerequisite: CSCI 2436.

**CSCI 3362. Operating Systems. 3(3-0)**

This course provides a comprehensive study of the concepts incorporated in modern operating systems. Students learn to view operating systems on the continuum from the designer to the user. This area is undergoing massive change as computer systems are becoming ubiquitous and operating systems are being designed for systems ranging from home appliances and automobiles to smart phones and other personal devices, to the more traditional computer systems used to process the myriad information used in governmental, business, and private organizations. Prerequisites: CSCI 2325 and CSCI 2436.

**CSCI 3366. Programming Languages. 3(3-0)**

This course covers different programming languages paradigms, formal definition of programming languages including specification of syntax and semantics, precedence, infix, prefix and postfix notation, list processing, string manipulation, data description and simulation languages, run-time representation of program and data structures. Formerly CSCI 4366. Prerequisite: CSCI 2322 and CSCI 2436.

**CSCI 4101. Jaguar Tracks IV: Computer Science. 1(1-0)**

In this course students will identify the various ethical issues and values as it relates to future careers within their discipline. Students will study various cases and identify the ethical issues, and seek mechanisms for addressing and resolving the issues. Through mock debates, studying, writing and presenting professional ethical analysis studies, students will be prepared to understand and address the ethical issues within their discipline. Prerequisite: UNIV 3101 or CSCI 3101 or 90 or more earned academic semester credit hours.

**CSCI 4315. Computer Graphics. 3(3-0)**

Man-machine communication in graphical form. Graphics hardware and software. Use of a commercial graphics package. Representation and manipulation of two- and three-dimensional data. Use of color. Prerequisite: CSCI 2436 or instructor approval.

**CSCI 4316. Software Engineering I. 3(3-0)**

Introduction to formal software design principles. An engineering approach to software development. Software project management. Software requirements analysis, specification, design, development and validation. Prerequisites: CSCI 2436.

**CSCI 4317. Software Engineering II. 3(3-0)**

This course completes a two-course sequence on engineering principles applied in the software development lifecycle. Students implement the design they developed and validated in the first course and prepare the resulting system for operations and maintenance. Course materials also address current topics in the area of software engineering. Prerequisite: CSCI 4316.

**CSCI 4321. Computer Security. 3(3-0)**

This course covers the topics of computer security and information security in greater detail. Topics will include cryptography, security protocols, web security, network security, software-security, mobile security, intrusion detection and prevention systems, vulnerability assessment, and other security technologies. Special emphasis is on application and software security issues. Hands-on exercises are included to reinforce the material. Prerequisites: CSCI 2436, CSCI 4406, and MATH 3340.

**CSCI 4322. Cyber Intelligence. 3(3-0)**

This course will integrate knowledge from introductory security courses with knowledge from data science and analytics. Major subjects include cyber operation and management, cyber defense and offense, malware analysis, and reverse engineering. The course will be built based on NIST NICE Cyber framework. Prerequisite: CSCI 3321 or CISA 4321.

**CSCI 4325. Mobile App Development I. 3(3-0)**

This course covers the fundamental concepts of designing and developing software applications targeted for mobile devices such as those running the Android operating system. The content is focused on strategies and techniques for designing and structuring mobile applications, including user interface screen layouts, the definition of program logic, and the connection between them. The application life cycle in the mobile environment and its important implications on application design is also examined. Prerequisites: CSCI 2436 or CISA 2305.

**CSCI 4331. Cryptography. 3(3-0)**

This course covers an introduction to various topics in cryptography including conventional and public-key cryptography, authentication and digital signatures, pseudo-random sequences, hash functions, key management. Software applications

using these techniques will be studied in addition to an introduction to current cryptographic techniques and applications. Prerequisites: CSCI 3343 and CSCI 4406.

**CSCI 4335. Mobile App Development II. 3(3-0)**

This course covers the technologies, tools, and techniques used to develop software applications targeted for mobile devices running software such as the iOS operating system. The content is focused on strategies and techniques for designing and structuring mobile applications, including user interface layouts, gesture-based interfaces, integrated location services, multi-touch event handling, Apple iOS platform, Xcode IDE, and Swift programming language. The application life cycle in the mobile environment and its important implications on the application design is also examined. Prerequisites: CSCI 2436 or CISA 2305.

**CSCI 4359. Advanced Topics in Computer Science. 3(3-0)**

Research in selected fields of computer science. Prerequisite: consent of instructor. May be repeated once for additional credit.

**CSCI 4391. Senior Project. 3(3-0)**

Students will work individually or as teams on topics/projects related to the industry or research. Faculty will help students in the selection process and students will produce several deliverables within the course toward the goal of their project completion. Meets College of Business Experiential Learning Requirements. Prerequisite: CSCI 4316.

**CSCI 4406. Computer Networks. 4(4-0)**

This course covers subjects related to computer networks including TCP/IP and OSI models, network applications, distributed systems and an introduction to network security. The course focuses on concepts, principles and technologies that enable the use of current computer networks and protocols. Prerequisites: CSCI 2436, CSCI 3321, and MATH 3340.

**ECONOMICS (ECON)**

**ECON 2301. Principles of Macroeconomics. 3(3-0)**

The objective of this course is to understand the modern tools and methods used in economic decision-making. The course is designed for student with limited or no background in economics. The focus of the course is on the study of Aggregate Demand and Supply analysis to determine output, employment, inflation, and the role of fiscal and monetary policy in stabilizing the economy. Prerequisite: ENGL 1301, ENGL 1302, MATH 1314 or MATH 1324.

**ECON 2302. Principles of Microeconomics. 3(3-0)**

The objective of this course is to understand the modern tools and methods used in economic decision-making. The course is designed for student with limited or no background in economics. The focus of the course is on the study of supply and demand, price theory, competition and market structure, market failure and the role of government and other economic issues. This course meets social behavioral sciences requirement under the core curriculum. Prerequisite: ENGL 1301, ENGL 1302, MATH 1314 or MATH 1324.

**ECON 3331. Money and Banking. 3(3-0)**

Principles, problems and structure of the United States monetary system. Operations of commercial banks, the regulation and control of the supply of money and credit and the organization of the Federal Reserve System. Prerequisite: admitted to the College of Business, ECON 2301, and ECON 2302.

**ECON 3334. International Economics. 3(3-0)**

International trade theory and policy and international monetary economics; balance of payments and exchange rate theory. Apply trade theories and models to explain why countries trade, gains from trade and trade patterns. Trade unions, tariffs, quotas and other non-tariff barriers to trade. Reasons and consequences of trade deficits. Prerequisite: Admitted to the College of Business, ECON 2301, and ECON 2302.

**ECON 4393. Special Problems in Economics. 3(3-0)**

Special studies in Economics. May be repeated once for credit. Prerequisite: consent of the instructor.

**BILINGUAL EDUCATION (EDBL)****EDBL 3307. Academic Spanish for DL Immersion Programs. 3(3-0)**

This course provides development of Academic Spanish proficiency for any student who wishes to successfully utilize Academic Spanish in a dual language setting or similar environments. Students will refine their language skills in listening, speaking, reading, and writing to become successful dual language teachers. This course is intended to support academic student success in the areas of literacy and Spanish proficiency. Prerequisites: SPAN 1312, SPAN 2311, SPAN 2312, SPAN 2315.

**EDBL 3311. Foundations of Bilingual Education. 3(3-0)**

This course is designed to equip the pre-service bilingual and second language teachers with the historical, sociolinguistic principles and legal foundations of bilingual education. We will examine different models of bilingual programs and its socio-cultural implications for language minority students. This course will emphasize how the political arena has influenced bilingual legislation in the United States.

**EDBL 3315. Second Language Acquisition and Literacy for English Language Learners. 3(3-0)**

This course focuses on the language learning and acquisition theories for first and second language learning. In addition, this course will stress the literacy development theories, lesson planning, oral language development, and the implications of learning second language methodology.

**EDBL 3320. Tests and Measurements in the Bilingual and ESL Classrooms. 3(3-0)**

Assessment instruments and strategies used in local, state and national systems for linguistically diverse students will be emphasized. In addition, this course will focus on the development of successful assessment practices for linguistically diverse students that can be used in Bilingual and ESL classrooms.

**EDBL 3321. Methods of Teaching English to Non-English Children. 3(3-0)**

This course is designed to help educational practitioners to understand the inter-relatedness of language and literacy learning in the classroom of Non-English speakers. This course will examine the cultural contexts, social, and linguistic approaches to the teaching ESL. The importance of the teacher-student relationships and classroom climate will be emphasized.

**EDBL 3327. Multilingual and Multicultural Education. 3(3-0)**

This course focuses on examining principal theories that address the linguistic and cultural needs of a diverse population. Included in this course will be the exploration of diversity issues, refinement of classroom management and planning techniques, teaching strategies and informal and formal assessment practices for culturally and linguistically diverse students. Students will exhibit an understanding of the Texas teacher competencies as outlined in the Pedagogy and Professional portion of the TExES exam.

**EDBL 3340. Applied Linguistics. 3(3-0)**

Linguistic structures and the relationships found in first and second language learning; educational implications in public school classrooms; dialects and cognitive development of language.

**EDBL 4318. Teaching Language Arts, Social Studies and Music Content in Dual Language Classrooms. 3(3-0)**

This course is designed to teach the methods and techniques for teaching Language Arts, Social Studies, and Music to the bilingual child. This course will emphasize the importance of the planning, curriculum, and instruction in the dual language classroom. In this course the use of lesson plans and the importance of meaningful teaching will be discussed. Course is offered in Spanish.

**EDBL 4322. Teaching Mathematics, Science and Art Content in the Bilingual Classroom. 3(3-0)**

This course is for students in the Bilingual EC-6 degree plan. The course will include knowledge of teaching Mathematics, Science and Art content in the bilingual and ESL Classroom. It will consist of a 3hr. course credit, lesson plan demonstrations, and TEKS alignment to each content area. Course is offered in Spanish. Prerequisites: EDBL 4318. Co-requisite: EDFR 3110 Field Residency I.

**EDBL 4308. Bilingual for Dual Language Educator. 3(3-0)**

Bilingual for Dual Language Educators provides development of Academic Spanish proficiency for students who wish to successfully utilize Academic Spanish in a bilingual or dual language setting. Students will continue refining their language skills in listening, speaking, reading, and writing to become successful dual language teachers. This course is intended to support academic student success in Spanish grammar and writing to develop bilingual/dual language pedagogy. Prerequisites: SPAN 1311, SPAN 1312. SPAN 2311, SPAN 2312, EDBL 3307.

**CURRICULUM AND INSTRUCTION (EDCI)****EDCI 1301. Introduction to Teaching. 3(3-0)**

This course is designed as an introduction to the American public education system, the Texas Essential Knowledge and Skills, and Texas teacher certification. Students will develop the skills necessary for writing lesson plans and meaningful student learning objectives based on relevant content and appropriate assessment. Formerly EDED 1301. Prerequisites: TSI Reading/Writing.

**EDCI 3101. Jaguar Tracks III. 1(1-0)**

The focus of this course is on discovering students' place in a disciplinary discussion where students will demonstrate knowledge of the discipline specific academic resources, develop major issues within the discipline, and become active members of the community within the discipline. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**EDCI 3303. Knowledge of Pedagogy and Assessment. 3(3-0)**

Students will develop knowledge of the implications of students' developmental characteristics for planning, implementing, and assessing appropriate instruction. An emphasis will be placed upon the characteristics and instructional needs of students with varied backgrounds, skill, interests, and learning styles. Formerly EDED 3303.

**EDCI 3308. Methods in Educational Media and Technology. 3(3-0)**

Emphasizes techniques to enhance learning, use of media and technology, learning styles of different students and ways to use media and technology to accommodate different learning styles.

**EDCI 3347. English Language Arts Methods for Early Childhood and Elementary Teachers. 3(3-0)**

This course focuses on the six components of language arts: listening, talking, reading, writing, viewing and visual representation. Psycholinguistic and sociolinguistic theory and its application to English language learning will be addressed. Strategies for teaching reading in the content area with emphasis in the skills necessary for helping students increase their reading vocabulary and reading comprehension are discussed. Additionally, this course offers experience and training in the use of writing as an instructional tool and techniques and methods for writing throughout the curriculum. Details pertaining to research, visual literacy and digital/critical literacy are explained. Formerly EDED 3347

**EDCI 3348. Classroom Management: Early Childhood and Elementary Teachers. 3(3-0)**

This course introduces various managerial strategies, offers teacher candidates ideas for effective classroom management, and develops an understanding of the value of collaborating within the school community. This course covers basic skills and knowledge for creating a learning environment that encourages positive social interaction and effective communication among members of the learning community at the middle & secondary levels. Formerly EDED 3348.

**EDCI 3349. Social Studies Methods: Early Childhood and Elementary. 3(3-0)**

This course provides teacher candidates with a method of teaching and assessing social studies in the early childhood through elementary grade levels; including methods and of selecting organizing social studies programs, the sequence of the content of the social studies curriculum, adapting and enriching social studies programs to meet the needs of all students, and creating assessments aligned with the social studies curriculum. Formerly EDED 3349.

**EDCI 3357. English Language Arts Methods: Middle School and Secondary. 3(3-0)**

This course focuses on the six components of language arts: listening, talking, reading, writing, viewing and visual representation. Strategies for teaching reading in the content area, specifically for the middle and secondary levels, with emphasis on the skills necessary for helping students increase their reading vocabulary and reading comprehension are discussed. Additionally, the implementation of writing and the application of advanced writing in the content areas will be utilized. Formerly EDED 3357.

**EDCI 3358. Classroom Management: Middle and Secondary Level Teachers. 3(3-0)**

This course addresses two distinct areas of classroom management. The first area is directed at the capacity building of each student in the critical assertiveness traits that are needed by all classroom teachers. The second area addresses the various technical areas of managing the classroom. Much of the training is directed in a format of identifying and addressing the clinical needs and responses to these two management areas. Students who complete this course will have the necessary competencies and skills to manage their behaviors and the behaviors of students. By the end of the course, students will know how to establish and maintain an academic climate in a classroom so that quality student performance can be attained. Formerly EDED 3358.

**EDCI 3359. Social Studies Methods: Middle and Secondary Levels. 3(3-0)**

This course provides teacher candidates with a method of teaching and assessing social studies in the middle and secondary levels; including methods of selecting and organizing social studies programs, the sequence of the content of the social studies curriculum, adapting and enriching social studies programs to meet the needs of all students, and creating assessments aligned with the social studies curriculum. Formerly EDED 3359.

**EDCI 4301. Teaching and Pedagogy for Early Childhood and Elementary Teachers. 3(3-0)**

Students will develop the knowledge necessary to promote early childhood and elementary-level student learning by providing responsive instruction that makes use of effective communication techniques, instructional strategies that actively engage students in the learning process, and timely, high-quality feedback. Formerly EDED 4301. Prerequisite: EDEC 3307.

**EDCI 4309. Legal and Ethical Issues in Education. 3(3-0)**

This course will include an analysis of legal and ethical issues in education as well as application of the critical skills necessary for professional success of beginning teachers.

**EDCI 4311. Teaching and Pedagogy for Middle School and Secondary Teachers. 3(3-0)**

Students will develop the knowledge necessary to promote middle school and secondary-level student learning by providing responsive instruction that makes use of effective communication techniques, instructional strategies that actively engage students in the learning process, and timely, high-quality feedback. Formerly EDED 4311. Prerequisite: EDCI 3303.

**EDCI 4346. Science Methods: Early Childhood and Elementary Levels. 3(3-0)**

This course provides teacher candidates with a method of teaching and assessing science in the early childhood through elementary grade levels; including methods of selecting and organizing programs, the sequence of the science curriculum, adapting and enriching science programs to meet the needs of all students, and creating assessments aligned with the science curriculum. Formerly EDED 4346.

**EDCI 4347. Math Methods: Early Childhood and Elementary Levels. 3(3-0)**

This course provides teacher candidates with a method of teaching and assessing mathematics in the early childhood through elementary grade levels; including methods of selecting and organizing mathematics programs, the sequence of the content of the mathematics curriculum, adapting and enriching mathematics programs to meet the needs of all students, and creating assessments aligned with the mathematics curriculum. Formerly EDED 4347.

**EDCI 4356. Science Methods: Middle School and Secondary Levels. 3(3-0)**

This course provides teacher candidates with a method of teaching and assessing science in the middle and secondary levels; including methods of selecting and organizing science programs, the sequence of the science curriculum, adapting and enriching science programs to meet the needs of all students, and creating assessments aligned with the science curriculum. Formerly EDED 4356.

**EDCI 4357. Math Methods: Middle School and Secondary Levels. 3(3-0)**

This course provides teacher candidates with a method of teaching and assessing math in the middle and secondary levels; including methods of selecting and organizing math programs, the sequence of the content of the math curriculum, adapting and enriching math programs to meet the needs of all students, and creating assessments aligned with the math curriculum. Formerly EDED 4357.

**EARLY CHILDHOOD (EDEC)****EDEC 3101. Jaguar Tracks III: Early Childhood. 1(1-0)**

In this course students will identify their skills, strengths, interests and values as it relates to future career goals within the field of early childhood. Students will volunteer in the community to gain transferable and direct skills to apply to future career goals. Through mock interviews, writing a professional and concise resume and cover letter, and research professional organizations, student will be prepared to become active members of the early childhood community. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**EDEC 3307. Child and Adolescent Development as It Impacts Instruction. 3(3-0)**

The course includes physical, cognitive, language, social and emotional development of children from birth to adolescence. Students apply developmental knowledge in planning individually and culturally appropriate lessons and assessment. This course is taken prior to entering the Educator Preparation Program. Formerly EDEC 3303.

**EDEC 3328. Foundations of Early Childhood Development. 3(3-0)**

Students will gain an understanding of the foundational theories and philosophies of early childhood.

**EDEC 3329. Developmentally Appropriate Curriculum for the Young Child. 3(3-0)**

Students will understand the historical, philosophical, psychological, sociological theories behind developmentally appropriate early childhood curriculum. Students will comprehend specifics about licensing, certification and management of childcare facilities as well as in the classroom. Students will identify and understand laws, rights and appropriate curriculum for special needs students. Prerequisite: EDEC 3307.

**EDEC 3331. Infant and Toddler Development. 3(3-0)**

Acquisition and development of physical, social, emotional, and cognitive skills for infants and toddlers with an emphasis on the essential role of the family and nurturing relationships in promoting positive early development.

**EDEC 3332. Professionalism, Leadership and Ethics. 3(3-0)**

Utilizing a social justice framework, focuses on becoming an early childhood professional; ethical choices, staff collaborations, professional dispositions, professional development, leadership and advocacy.

**EDEC 3349. Academics, Creativity and Play. 3(3-0)**

This course focuses on teaching methods for incorporating play, movement and the arts into academic instruction for the EC-6 student. Students apply the knowledge of developmental milestones to make age appropriate curricular decisions. Prerequisites: EDEC 3307.

**EDEC 4101. Jaguar Tracks IV: Early Childhood. 1(1-0)**

The focus of this course is discovering students' place in the early childhood field where the student will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in the early childhood profession. Prerequisite: UNIV 3101 or EDEC 3101 or 90 or more earned academic semester credit hours.

**EDEC 4301. Working with Diverse Families and Young Children. 3(3-0)**

Focuses on understanding the dynamic relationship between families and those who care for young children examining issues of diversity, family strengths, family stresses and parenting.

**EDEC 4302. Action Research. 3(3-0)**

Focuses on preparing early childhood professionals to use empirically-based action research to inform their work with young children and/or families.

**EDEC 4303. Practicum in Growth and Development. 3(3-0)**

Familiarizes the student with authentic early childhood environments emphasizing the importance of developmentally appropriate and culturally relevant practices.

**EDEC 4314. Cognitive Development. 3(3-0)**

Students will gain an understanding of cognitive developmental milestones and theoretical philosophies that enhance the understanding of professionals in early childhood careers.

**EDEC 4315. Social and Emotional Development. 3(3-0)**

Students will gain an understanding of social and emotional developmental milestones and theoretical philosophies that enhance the understanding of the social and emotional domains of young children.

**EDEC 4316. Assessment of Young Children. 3(3-0)**

Students will gain an understanding of a variety of assessment procedures and methods for documenting the growth and development of young children in all domains.

**EDEC 4320. Assessment in Early Childhood Education. 3(3-0)**

Student will acquire information regarding developmentally appropriate assessment strategies for the cognitive, social, emotional and physical domain. Student will identify formal and informal evaluative instruments and the subsequent advantages and disadvantages. Information will be provided on special problem regarding assessment, including assessment of special populations, interpretation of results and bias of results. Prerequisite: EDEC 3307 (Formerly EDEC 3303).

**EDEC 4329. Language Development in Early Childhood. 3(3-0)**

Acquisition and development of oral language, early literacy. Integrated approach to language skills for young children.

**EDEC 4337. Physical Development Early Childhood. 3(3-0)**

Strategies and materials for enhancing the physical development of young children. Units of health, nutrition, safety and other related topics. Field experiences.

**EDEC 4361. Curriculum and Materials for Early Childhood Education. 3(3-0)**

Methods and materials for teaching young children. Scope and sequence of language, mathematics, social and natural sciences, fine arts, health and safety and physical education. Field experiences required. Prerequisites: EDEC 3328.

**EDUCATION FIELD RESIDENCY (EDFR)****EDFR 0000. TEXES Exam Preparation. 0(0-0)**

This course will provide an analysis of each Domain and Standards of the Core test needed to become initially certified. An analysis of the content, format and techniques to master the core will be used. This test prep course may include other core areas per student need. Prerequisite: Admission to EPP or GTCP.

**EDFR 3110. Field Laboratory Residency I. 1(1-0)**

Requirement of one semester of field residency (consisting of 30 clock hours) while enrolled in departmentally approved field residency courses. This lab course is designed to equip pre-service teacher candidates with classroom observation experiences in the field. This lab is taken in conjunction with designated field residency courses in which students are provided specific assignments to complete during the classroom observation. The course must be successfully completed prior to teaching. Prerequisite: Admission to the teacher preparation program.

**EDFR 3120. Field Laboratory Residency II. 1(1-0)**

Requirement of one semester of field residency (consisting of 30 clock hours) while enrolled in departmentally approved field residency courses. This lab course is designed to equip pre-service teacher candidates with classroom observation experiences in the field. This lab is taken in conjunction with designated field residency courses in which students are provided specific assignments to complete during the classroom observation. The course must be successfully completed prior to teaching. Prerequisite: EDFR 3110 and Admission to the teacher preparation program.

**EDFR 4310. Elementary Clinical Teaching: Field Residency IV. 3(3-0)**

Students will demonstrate, in a laboratory setting, knowledge of and an ability to effectively apply those skills necessary for successful teaching in the elementary school. Clinical teaching is a half-time assignment for 30 weeks in an accredited elementary school. Course must be taken twice in consecutive semesters. Student is to furnish transportation. Prerequisites: EDFR 3110, EDFR 3120, and all coursework required by degree plan and certification route.

**EDFR 4320. Secondary Clinical Teaching: Field Residency IV. 3(3-0)**

Students will demonstrate, in a laboratory setting, knowledge of and an ability to effectively apply those skills necessary for successful teaching in the secondary school. Clinical teaching is a half-time assignment for 30 weeks in an accredited secondary school. Course must be taken twice in consecutive semesters. Student is to furnish transportation. Prerequisites: EDFR 3110, EDFR 3120, and all coursework required by degree plan and certification route.

**EDFR 4613. Elementary Clinical Teaching: Field Residency III. 6(6-0)**

Students will demonstrate, in a laboratory setting, knowledge of and an ability to effectively apply those skills necessary for successful teaching in the elementary school. Student teaching is a full-time assignment for 16 weeks in an accredited elementary school. Student is to furnish transportation. Prerequisites: EDFR 3110, EDFR 3120, and all course work on degree plan.

**EDFR 4623. Secondary Clinical Teaching: Field Residency III. 6(6-0)**

Students will demonstrate, in a laboratory setting, knowledge of and an ability to effectively apply those skills necessary for successful teaching in the elementary school. Student teaching is a full-time assignment for 16 weeks in an accredited secondary school. Student is to furnish transportation. Prerequisites: EDFR 3110, EDFR 3120, and all course work on degree plan.

## **HEALTH (EDHL)**

### **EDHL 1322. Nutrition. 3(3-0)**

Course addresses principals and concepts associated with nutrition science. Emphasis will be placed on developing an understanding of nutrition factors and prevention of chronic illness. Students will be expected to journal and assess their personal dietary behaviors and develop a plan to improve or maintain their eating patterns. Prerequisite: TSI Reading.

### **EDHL 3331. Consumer Health. 3(3-0)**

An informed health consumer is one who purchases health products and services that are useful and beneficial. This consumer is also aware of consumer protection, product safety and services available if dissatisfied with a product or service.

### **EDHL 3333. Growth Development and Sexuality. 3(3-0)**

Human sexuality content for different developmental stages. Designed for individuals who plan to present human sexuality content to various age groups.

### **EDHL 3335. Drug Education. 3(3-0)**

Study of prescription and non-prescription drugs, their action in the body, their benefits and abuse potentials.

### **EDHL 3381. Community Health. 3(3-0)**

Acquaints the student with all aspects of community and public health. Designed to prepare students for planning, implementation and evaluation of health education/health promotion programs in community, health care and worksite settings. Prerequisite: EDKN 1304.

### **EDHL 3383. Women's Health. 3(3-0)**

Medical, historical, legal, environmental, sociological and psychological issues that affect women's health, both past and present. Prerequisite: EDKN 1304.

### **EDHL 4337. Disease Entities and Epidemiology. 3(3-0)**

This course introduces epidemiologic principles and methods. Examines the historical and theoretical bases of epidemiology; statistical methods; distribution of disease over person, place and time; research methods utilized in epidemiology; and the application of epidemiology to the prevention of disease and the promotion of health.

### **EDHL 4342. Program Planning for Health Promotion. 3(3-0)**

Explore the demographics of the San Antonio area, identify a disease that is prevalent to a local population, assess the resources available, develop a health promotion program and implement the program at a local facility. Prerequisite: EDHL 3381.

### **EDHL 4344. Health and Aging. 3(3-0)**

This course will explore in-depth information regarding the health issues of aging individuals including: physical health, psychological health, legal and ethical issues of health and Medicare/Medicaid.

## **KINESIOLOGY (EDKN)**

### **EDKN 1101. Jogging. 1(0-2)**

Instruction and participation in distance walking and jogging. Prerequisites: TSI Reading.

### **EDKN 1102. Weight Training. 1(0-2)**

Development of muscular strength and endurance through the use of free weights and weight machines. Principles of strength training, safety guidelines, and various training techniques are presented. Prerequisites: TSI Reading.

**EDKN 1103. Cardio Dance. 1(0-2)**

Instruction and participation in various aerobic exercises to music. Prerequisites: TSI Reading.

**EDKN 1104. Cardio Fitness. 1(0-2)**

Instruction and participation in aerobic activity through various group and individual sports, games, and exercises. Prerequisite: TSI reading.

**EDKN 1119. Beginning Rhythmic Activities. 1(0-2)**

The development of skills and techniques used to educate K-12 physical education students in rhythmic activities and dance. Prerequisites: TSI Reading.

**EDKN 1301. Foundations of Kinesiology. 3(3-0)**

Philosophical, historical, sociological, psychological, mechanical, and physiological principles of kinesiology. Includes careers in kinesiology. Prerequisite: TSI Reading/Writing.

**EDKN 1304. Personal/Community Health. 3(3-0)**

Principles and concepts associated with current trends related to personal and community health issues. Focus will be on preventative health and wellness. Emphasis will be placed on developing an understanding of maintaining a healthy lifestyle to prevent chronic illness. Prerequisites: TSI Reading/Writing.

**EDKN 1305. Coaching. 3(3-0)**

Principles of coaching, behavior, teaching, physical training, and management. Prerequisites: TSI Reading.

**EDKN 1306. First Aid. 3(3-0)**

Current standards and practice for emergency care, recognizing and avoiding hazards within the environment, and application of first aid and treatment of common exercise-related injuries in sport and exercise environments. Prerequisites: TSI Reading.

**EDKN 1308. Intramurals and Officiating. 3(3-0)**

Designing, organizing, and promoting intramural programs. Emphasis on officiating techniques and procedures in various activities. Prerequisites: TSI Reading/Writing.

**EDKN 1338. Fitness and Wellness. 3(3-0)**

Knowledge, understanding and values of health related fitness and wellness and its influence on the quality of life. Prerequisites: TSI Reading/Writing.

**EDKN 2147. Skill Analysis of Individual/Dual Sports. 1(0-2)**

Participation and introduction to teaching in a variety of individual/dual sports, recreational, and physical fitness activities. Prerequisites: TSI Reading/Writing.

**EDKN 2148. Skill Analysis of Team Sports. 1(0-2)**

Participation and introduction to teaching in a variety of team sports. Prerequisites: TSI Reading/Writing.

**EDKN 3101. Jaguar Tracks III. 1(1-0)**

This course is designed to prepare students to meet the minimum health-related fitness standards of the five components of fitness. These five components will be assessed, students will identify areas of need, formulate a plan, and put this plan in action. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**EDKN 3315. Functional Anatomy. 3(3-0)**

This is a basic course in human anatomy. An in-depth study of the structure involved in human movement will be studied as well as the basic functions of these structures. Prerequisites: BIOL 1306 and 1307, or BIOL 2401

**EDKN 3316. Medical Terminology. 3(3-0)**

This course is designed to develop skills necessary to read and comprehend original research, medical reports, and health/fitness evaluations with regards to prefixes, suffixes and root words of medical terms.

**EDKN 3332. Program Development and Management in the Fitness Industry. 3(3-0)**

Organizational development and management in corporate, commercial and institutional fitness industries. Prerequisite: EDKN 1301.

**EDKN 3340. Health and Physical Education for Early Childhood and Elementary Teachers. 3(3-0)**

Students will develop knowledge of the concepts, principles, skills, and practices of health and physical education to plan and implement effective and engaging health and physical education activities for young children. Formerly EDED 3340.

**EDKN 3350. Kinesiology and Sport in Society. 3(3-0)**

Impact of kinesiology and sport on society and its institutions. Individual characteristics, motivation, psychological interventions and social processes that influence exercise and human performance behaviors. Prerequisites: EDKN 1301.

**EDKN 3426. Basic Physiology of Exercise. 4(4-0)**

Physiology as applied to exercise and human performance. How the systems of the body respond to both acute and chronic exercise training. Includes required laboratory experiences. Prerequisites: EDKN 3315.

**EDKN 3445. Measurement and Evaluation in Kinesiology. 4(4-0)**

Use and function of the various tests in kinesiology, together with the purpose, scope and techniques of test construction will be analyzed. Sufficient statistical techniques necessary for adequate manipulation and interpretation will be reviewed. Includes required laboratory experiences. Prerequisites: EDKN 1301.

**EDKN 4101. Jaguar Tracks IV. 1(1-0)**

This course is designed to prepare students for their profession outside of content-specific information. Students learn to work safely within their social environment to better prepare them for interaction in group setting when planning, implementing, and/or evaluating activities, events, or other job-related activities. Prerequisite: UNIV 3101 or EDKN 3101 or 90 or more earned academic semester credit hours.

**EDKN 4310. Teaching Elementary Physical Education. 3(3-0)**

Developmental movement experiences for children; sport and health-related physical fitness activities, dance, lead-up games, gymnastics, game analysis and evaluative criteria for movement skills. Prerequisite: EDKN 1301.

**EDKN 4311. Teaching Secondary Phys Education. 3(3-0)**

Theory and application of group management skills that are appropriate for physical activities. Effects of litigation, facilities, design, program, equipment, class scheduling and lesson planning on group management. Prerequisite: EDKN 1301.

**EDKN 4320. Motor Development and Motor Learning. 3(3-0)**

Physical factors that influence growth, maturation and aging; process underlying perceptual-motor performance and the interpretation and applications of motor research to human movement.

**EDKN 4324. Exercise in Chronic Disease and Disabilities. 3(3-0)**

Special exercise testing and exercise program design/implementation considerations for individuals with commonly seen chronic diseases and disabilities. Basic pathophysiological. Prerequisites: EDKN 3426.

**EDKN 4325. Biomechanics. 3(3-0)**

The study of the human body in its performance of movement and interrelationships of biomechanics, musculoskeletal anatomy and neuromuscular physiology. Prerequisite EDKN 3315.

**EDKN 4328. Internship I. 3(3-0)**

The student and the university supervisors will develop a contractual agreement which provides for a minimum of 120 clock hours of specific learning experiences on or off campus. Prerequisite: EDKN 4401.

**EDKN 4334. Research Project in Exercise Science. 3(3-0)**

An independent review of literature and a laboratory or field problem yielding a formal report on the research. Prerequisite: EDKN 3445.

**EDKN 4342. Motor Skills Special Populations. 3(3-0)**

Practical considerations for conducting kinesiology programs for individuals of all ages with disabilities. Legal entitlements, integrating persons with disabilities, conducting individualized instruction, physical fitness programs and use of motor skills for transitional living. Prerequisite: EDKN 4320.

**EDKN 4401. Exercise Test and Prescription. 4(4-0)**

Design and implementation of exercise programs for healthy and special populations based upon appropriate screening and evaluation procedures. Includes required laboratory experiences. Prerequisites: EDKN 3426.

**EDKN 4417. Advanced Physiology of Exercise. 4(4-0)**

This course investigates the role of various physical environments, activity extremes, and disease status on the human response to physical activity. Additional emphasis is placed on the nutrient demands and role of supplements in human performance. Includes required laboratory experiences. Prerequisite: EDKN 3426.

**READING (EDRG)****EDRG 3315. Early Literacy Instruction. 3(3-0)**

This course is designed to teach pre-services teachers the components of early literacy instruction and the science of teaching reading. Using evidence-based reading research, the course focuses on teaching emergent literacy skills, such as oral language development, print awareness, phonological and phonemic awareness, while addressing decoding, encoding, and word analysis skills. Additionally, this course emphasizes how to plan effective and developmentally-appropriate instruction for young, diverse learners. This course may require up to 10 hours of experiential learning.

**EDRG 3335. Multicultural Children's Literature. 3(3-0)**

Multicultural Children's Literature is designed to provide a foundation for students who are interested in exploring children and young adult literature that is centered around a Latinx theme. The coursework will engage students with activities and literature to enhance knowledge of implementing materials with children and young adults.

**EDRG 3389. Teaching Reading in the Intermediate Grades and Middle School. 3(3-0)**

This course focuses on the science of teaching reading through a detailed analysis in advanced phonics, fluency, vocabulary, and comprehension specifically for students in the intermediate and middle school grades. Literacy theories and strategies for each will be presented. In addition, this course will also offer information on new literacies and speaking and listening skills utilized in grades 4-8. This course may require up to 10 hours of experiential learning.

**EDRG 4325. Disciplinary and Content Area Literacy. 3(3-0)**

This course is designed to teach pre-service teachers that literacy permeates in all disciplinary and content areas. The focus of the course is on teaching the science of reading through the structures, strategies, and approaches to teaching literacy in various disciplines, while developing the knowledge, skills, and attitudes to meet the literacy needs of diverse students. This course may require up to 10 hours of service learning.

**EDRG 4331. Reading Assessment and Intervention. 3(3-0)**

This capstone course focuses on multiple literacy assessments and their use in the classroom setting. Principles of assessment are discussed with a special focus concerning the use of assessment to guide instruction. Also included is differentiated instruction for special populations, language development and reading disabilities. Prerequisite: EDRG 3389.

**SPECIAL EDUCATION (EDSE)****EDSE 3345. Survey of Exceptional Individuals. 3(3-0)**

A survey of special education with attention devoted to individuals with exceptionalities in the socio-cultural context: family, community, educational and vocational. This course is intended to be the first course in the special education sequence.

**EDSE 3346. Development of Exceptional Individuals. 3(3-0)**

Emphasis is upon the growth and development of exceptional individuals within low incidence populations, including comparisons of developmental milestones and the study of causes of behavior and recurring patterns of behavior. Prerequisite: EDSE 3345.

**EDSE 3347. Behavior Management of Exceptional Individuals. 3(3-0)**

Approaches to individual and group behavior change and behavior management with exceptional individuals. Includes the observation of exceptional individuals in varying settings.

**EDSE 3348. Interventions & Technology in Special Education. 3(3-0)**

An advanced study of evidenced-based instructional procedures, curriculum, and supportive technology practices to effectively teach content area academic knowledge to students with disabilities. The course will focus on facilitating/providing tiered support systems and intensive academic instruction to students with/at-risk for disabilities.

**EDSE 4340. Collaboration and Transition Services in Inclusive Settings. 3(3-0)**

Consultation skills for effective collaboration with families and among professionals toward the goal of inclusion of students with exceptionalities in least restrictive environments. Prerequisite: EDSE 3345.

**EDSE 4346. Assessment of Exceptional Students. 3(3-0)**

Formal and informal assessment procedures applicable to identification of and instructional planning for exceptional individuals. The theory and content of instruments used to identify, analyze and evaluate the strengths and learning needs of exceptional individuals are emphasized. Prerequisite: EDSE 3345.

**EDSE 4347. Federal and State Regulations Concerning Exceptional Individuals. 3(3-0)**

Principles and procedures designed to comply with the various rules and regulations concerning exceptional individuals. Prerequisite: EDSE 3345.

**ENGLISH (ENGL)****ENGL 1301. Composition I. 3(3-0)**

Introduces students to college-level reading and writing through the development of reading habits and composing practices that will enable students to respond critically and communicate persuasively to a variety of audiences. Prerequisites: TSI Reading/Writing.

**ENGL 1302. Composition II. 3(3-0)**

This course builds on the reading and writing skills developed in ENGL 1301 and invites students to enter into academic discourse through research wherein they will be asked to synthesize and respond to a variety of perspectives on a topic of their choosing. Students will also read and compose a variety of texts oral, written, and visual. Prerequisite: ENGL 1301.

**ENGL 2311. Technical Writing. 3(3-0)**

Intensive study and practice of technical and professional genres such as proposals, reports, instructions, policies and procedures, e-mail messages, letter, and descriptions of products and services. Students will also practice individual and collaborative processes involve in the creation of ethical and efficient documents. Prerequisite: ENGL 1301.

**ENGL 2312. Borderland Rhetorics. 3(3-0)**

This course examines discourses associated with borderlands broadly conceived as transnational, cultural, and material spaces. Students in this course will learn about the history and theory of a range of borderland rhetorics. Students will also apply this knowledge through the analysis and production of text. Prerequisites: ENGL 1302 or ENGL 2311

**ENGL 2314. Writing for the Professions. 3(3-0)**

This course examines writing and communication in professional contexts. Students analyze and compose in workplace genres and examine the ways these genres fulfill audience expectations, communicate information verbally and visually, and function as responses to rhetorical situations common to the workplace. Prerequisite: ENGL 1302 or ENGL 2311.

**ENGL 2321. Genres and Themes in British Literature. 3(3-0)**

Compares a variety of texts from the British Isles, its former colonies, and Commonwealth nations, and considers the ways that literature has shaped and reflected images of British cultural identity. Prerequisites: ENGL 1302

**ENGL 2326. Literature of the Americas. 3(3-0)**

Considers the ways in which literature has shaped, reflected, and challenged perceptions of American cultural identity through the study of a variety of texts, both literary and historical. Prerequisite: ENGL 1302.

**ENGL 2331. Introduction to World Literature. 3(3-0)**

Considers texts from diverse genres, periods, and cultural traditions with special attention to critical thinking and writing within a framework of cultural diversity. Readings will include historical accounts, letters, essays, poetry, drama, memoirs, speeches, scientific writing, religious tracts, political treaties, philosophy, novels, oral traditions, and popular and folk literatures. Prerequisite: ENGL 1302.

**ENGL 2344. Introduction to Fiction. 3(3-0)**

Introduces students to the creative art of fiction. Areas of emphasis may include American, British, Continental and/or Non-Western fiction, as well as specific historical periods. Can include prose narratives, short stories, novellas, and novels, as well as the social function of fiction more generally. Prerequisite: ENGL 1302.

**ENGL 2345. Introduction to Drama. 3(3-0)**

Selected topics in American, British, or continental and/or Non-Western drama. Emphasis may be on historical development, certain periods or some other approach to the study of drama. Prerequisite: ENGL 1302.

**ENGL 2346. Introduction to Poetry. 3(3-0)**

Introduces students to the appreciation and analysis of poetry. Includes instruction in scansion and metrics, and the relationship between form and content. Prerequisite: ENGL 1302.

**ENGL 2355. Children's Literature. 3(3-0)**

A survey of children's literature. The course includes various authors and illustrators in such genres as the oral tradition, fantasy, realistic and historical fiction, poetry, and the picture book. Prerequisite: ENGL 1302.

**ENGL 2370. Introduction to English Studies. 3(3-0)**

This course will introduce students to major literary genres, methods of literary and/or rhetorical analysis, and writing conventions in English Studies. Prerequisite: ENGL 1302.

**ENGL 2388. Introduction to Visual Studies. 3(3-0)**

Introduction to the interdisciplinary field of visual studies, both theoretical and practical. Includes the study of film, television, advertising, photography, and/or graphic novels. Prerequisite: ENGL 1302.

**ENGL 3101. Jaguar Tracks III: English. 1(1-0)**

The objective of ENGL 3101 is to help students investigate the professions within the discipline of English. Students will discover their place within their own English major's disciplinary practices and values. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**ENGL 3300. Special Topics in Writing. 3(3-0)**

Practice and refinement of the writing process with emphasis on audience, purpose and form; paying attention to rhetorical invention, arrangement and style appropriate to the particular topic. May be repeated once when a different topic is scheduled. Prerequisite: ENGL 1302.

**ENGL 3302. Rhetoric and Materiality. 3(3-0)**

This course examines the material aspects of human communication with an emphasis on the influence of media, environment, and corporeality. Students in the course will use rhetorical frameworks of materiality to guide their analysis and production of text. Prerequisite: ENGL 2370

**ENGL 3303. Professional Editing. 3(3-0)**

This course examines strategies and techniques used by professional editors across professions and disciplines. Students explore critical issues in editing and apply professional standards and ethical frameworks to edit a range of texts. Prerequisite: ENGL 2370

**ENGL 3312. Introduction to Rhetoric. 3(3-0)**

This course introduces students to concepts, traditions, and debates in rhetorical theory and provides experience in the application of rhetoric in English studies as a discipline. Prerequisite: ENGL 2370

**ENGL 3315. Introduction to Critical Theory. 3(3-0)**

This course introduces students to concepts, traditions, and debates in critical theory, and provides experience in the application of critical theory in English studies as a discipline. Prerequisite: ENGL 2370

**ENGL 3317. Grammar and Style. 3(3-0)**

This course explores grammar in context. In addition to covering basic and advanced concepts of grammar, usage and punctuation, and techniques and practices for effective writing, this course also explores the ways in which grammar is used rhetorically by authors across contexts. Prerequisite: ENGL 2370

**ENGL 3320. Writing in the Humanities. 3(3-0)**

Introduces students to the types of writing they will be asked to do as humanities majors, including short response essays, review essays, analytic essays, argumentative essays, and research reports. Prerequisite: ENGL 1302.

**ENGL 3322. Medieval Literature. 3(3-0)**

Major works of literature from Old and Middle English, including Chaucer, medieval plays, and examples of other early literary traditions. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3325. Early Modern Literature. 3(3-0)**

Selected readings in poetry, prose and non-Shakespearean dram of the 16th and 17th centuries. Prerequisite: ENGL 2370 and 2321 or 2326, 2331, 2344, 2345, or 2346.

**ENGL 3327. Restoration and 18th Century Literature. 3(3-0)**

The period from 1660 to 1800 with representative works of the major writers in verse, prose and drama. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3331. Intersectional Shakespeare. 3(3-0)**

In addition to introducing Shakespeare's major genres, this course invites students to consider Shakespeare's cultural status, to ask how social difference informs his works, and to study adaptations and appropriations of Shakespeare in diverse contexts Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3342. Romantic Literature. 3(3-0)**

Canonical and noncanonical writers associated with the Romantic period. Cultural background and representative works, including poetry and nonfiction prose. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3344. Victorian Literature. 3(3-0)**

Canonical and noncanonical writers of the Victorian period. Cultural background and representative works, including poetry and nonfiction prose. Prerequisites: ENGL 2370 and 2321, or 2326, 2331, 2344, 2345, or 2346.

**ENGL 3346. 20th and 21st Century British Literature. 3(3-0)**

A study of British poetry, fiction, drama, and non-fiction prose from the twentieth and twenty-first centuries. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3362. Early American Literature. 3(3-0)**

Survey of early American literature and culture from the Colonial Period to the early nineteenth century. Includes poetry, fiction, drama and non-fiction prose. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3363. American Romanticism. 3(3-0)**

Study of significant works of American literature from the early and mid-nineteenth century. Prerequisites: ENGL 2370 and 2321, or 2326, 2331, 2344, 2345, or 2346.

**ENGL 3364. American Literature 1865 to Progressive Era. 3(3-0)**

Canonical and noncanonical American writers from the Civil War through the Progressive Era. Explores cultural background and representative works, including poetry and nonfiction prose. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3366. 20th and 21st Century American Literature. 3(3-0)**

A study of American poetry, fiction, drama, and non-fiction prose from the twentieth and twenty-first centuries. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 3376. Mythology. 3(3-0)**

Greek and Roman mythology; epics of Western Europe, as background for the study of literature in the English language. Prerequisites: ENGL 2370 and one of the following 2321, 2326, 2331, 2344, 2345, or 2346.

**ENGL 4101. Jaguar Tracks IV: English. 1(1-0)**

The focus of this course is discovering students' place in a professional field where the student will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. Prerequisite: UNIV 3101 or ENGL 3101 or 90 or more earned academic semester credit hours.

**ENGL 4301. Advanced Technical Writing. 3(3-0)**

This course supports students in developing both knowledge of any proficiency in a variety of technical writing genres. Students will pay particular attention to the ways technical writing genres fulfill audience expectations, employ usability standards, communicate information through both verbal and visual means, and fulfill ethical commitments, including commitments to environmental sustainability. Students will also gain hands-on experience writing in the genres in response to workplace scenarios. Prerequisite: ENGL 3312

**ENGL 4310. Introduction to Linguistics. 3(3-0)**

An introduction to the scientific study of language. Prerequisite: ENGL 3331.

**ENGL 4312. Introduction to Composition Studies. 3(3-0)**

Study of advanced research methods, writing, rhetoric, and grammar. Prerequisite: ENGL 3312

**ENGL 4330. Topics in Creative Writing. 3(3-0)**

Develops students' theoretical knowledge and practical experience in using the techniques of creative writing. Prerequisites: ENGL 3312, 3315, or 3331

**ENGL 4340. Research Methods in Rhetoric and Writing. 3(3-0)**

This course introduces students to research methodologies in the field of Rhetoric and Composition. Students examine the potential limitations of various research methods and develop and implement a research plan for their capstone project in the major. While taking the course, students will be implementing their research design in their internship or service learning experience. Prerequisite: ENGL 3312. Corequisite: ENGL 4341

**ENGL 4341. Internship. 3(3-0)**

Students in this course engage in a pre-approved semester-long internship or service learning project with a community partner. Through this experience, students will enact the research designs developed in ENGL 4340: Research Methods in Rhetoric and Writing while they also apply standards and ethical frameworks for their work with community partners. Findings from the work students complete during this course will provide the data for student's work in senior seminar. Prerequisite: ENGL 3312. Corequisite: ENGL 4340.

**ENGL 4342. Major Rhetoricians. 3(3-0)**

This course examines the contributions of major figures in rhetorical history. The course may focus on one figure or may address a selected group of figures. Students will examine the figure(s) focused on in this course in the context of their cultural and historical milieu. In addition to examining the contributions of the rhetorician(s) focused on in this course, students will explore the implications of their work for rhetorical praxis. Prerequisite: ENGL 3312.

**ENGL 4343. Grant Writing. 3(3-0)**

This course examines the genre of professional grant writing. Students will learn methods for researching, writing, editing, and designing effective grants. Students will also develop strategies for working with nonprofit organizations to identify needs, to research appropriate grant opportunities, and to compose and submit grant proposals to funding agencies. Prerequisite: ENGL 3312.

**ENGL 4344. Writing for the Web. 3(3-0)**

This course examines genres and technologies associated with web-based writing and communication. Students will become familiar with the theories and practices of this writing across digital context that guides both the alphabetic and visual facets of these texts. Prerequisite: ENGL 3312.

**ENGL 4370. Special Topics in English. 3(3-0)**

Selected topics in British or American literature and/or world literature and language. A topic for intensive investigation will be selected for each offering of the course. May be repeated once for credit. Prerequisite: ENGL 3312, 3315, or 3331

**ENGL 4372. Major Authors. 3(3-0)**

Devoted to the study of one or two major authors, their canonical and non-canonical works, as well as related literary criticism. Prerequisites: ENGL 3312, 3315, or 3331.

**ENGL 4375. Studies in Women's Literature. 3(3-0)**

Study of women's literature based on a selected period, nationality, and/or issue. Prerequisite: ENGL 3312, 3315, or 3331.

**ENGL 4386. African-American Literature. 3(3-0)**

The study of literary works in various forms and media written by African Americans. Can cover any historical period from Colonial America to the present. Prerequisites: ENGL 3312, 3315, or 3331.

**ENGL 4388. Latinx Literature. 3(3-0)**

This course examines Latinx writers including but not limited to those of Mexican, Cuban, Puerto Rican, Dominican, Indigenous, and Latin American descent in the United States. Can also encompass the literature of the Américas more broadly as well as the immigrant experience. Emphasis may be on a selected country of origin, period, genre, theoretical perspective, or issue. (the use of "x" in Latinx is a gender neutral term that replaces the "a/o" in Latina/o.) Prerequisite: ENGL 3312, 3315, or 3331.

**ENGL 4392. Teaching English. 3(3-0)**

Required course for ENGL with Teaching Certification students. The course focuses on teaching novels, short stories, poetry, drama, and film to students in grades 8-12. Students will create classroom activities and lesson plans, research and analyze pedagogy, and complete a teaching portfolio. Prerequisite: ENGL 3312, 3315, or 3331.

**ENGL 4395. Visual Studies. 3(3-0)**

Study of film, television, advertising, graphic novels, and/or photography as well as current theory. Includes extensive analysis of key aspects of contemporary culture that rely on visual images. Prerequisite: ENGL 3312, 3315, or 3331.

**ENGL 4398. Senior Seminar. 3(3-0)**

An intensive examination of a critical literary approach or a special topic in literary and cultural studies requiring the production of an extensive research-based project. Prerequisite: ENGL 4386, or 4388.

**FIRE AND EMERGENCY SERVICES (FESA)****FESA 3101. Jaguar Tracks III - Applied Writing. 1(1-0)**

The focus of this course is discovering students' place in a disciplinary discussion where students will demonstrate knowledge of discipline-specific academic resources, develop major issues within the discipline, and become active members of the community within the discipline. This course will focus on specific writing topics such as preparing an executive summary, preparing a budget proposal and bid process, preparation of grant proposals and other management level writing topics. Prerequisite: Junior or senior-level standing; UNIV 2101 or 60 or more earned academic semester credit hours, Enrollment in FADM, FESA, or HSEC concentration.

**FESA 3330. Political and Legal Foundations for the Fire Services. 3(3-0)**

This course examines the legal aspects of the fire service and political and social impacts of legal issues. This course includes a review of the American legal system, Texas legal system, local government systems and in-depth coverage of legal and political issues involving employment and personnel matters, administrative and operational matters, planning and code enforcement, and legislative and political processes with regard to the fire service.

**FESA 3332. Fire Prevention Organization and Management. 3(3-0)**

This course examines the factors that shape fire risk and the tools for fire prevention, including risk reduction education, codes and standards, inspection and plans review, fire investigation, research, master planning, and various types or influence and strategies.

**FESA 3334. Personnel Management for Fire and Emergency Services. 3(3-0)**

An examination of the basic human resource management and development practices of the fire and emergency services professions. Topics include, but are not limited to the development of the merit system and civil service; public sector requirements of hiring, promotion, pay, and benefits; discipline and grievance handling; the development and impact of public-sector collective bargaining.

**FESA 3336. Advanced Principles in Fire and Emergency Services Safety and Survival. 3(3-0)**

This course will look at the basic principles and history related to the National Fire Fighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. The course will also emphasize their importance of safety and survival at the supervisory and managerial levels.

**FESA 3338. Community Risk Reduction. 3(3-0)**

This course examines concepts of community sociology, the role of fire-related organizations within the community, and their impact on the local fire problem, including fire service relationships within the community and other agencies, developing a community inventory, shaping community policy, master planning, and shaping community perceptions about the local fire service.

**FESA 3340. Disaster Planning and Control. 3(3-0)**

This course examines concepts and principles Disaster Planning and Control of fires, and natural and man-made disasters, including National Incident Management System - Incident Command Systems (NIMS ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery.

**FESA 3342. Advanced Leadership for the Fire Officer. 3(3-0)**

This course will enable students to meet the knowledge and skill requirements of NFPA 1021, Standard for Fire Service Officer Professional qualifications, Chapter 6. The class is designed to focus on advanced management of fire service divisions/programs. The course will focus on several key areas the mid-level fire officers are required to manage and lead. This course will require the students to complete skill requirements of a Fire Officer III as prescribed by Texas Commission on Fire Protection (TCFP).

**FESA 3344. Management of Fire Department Training Programs. 3(3-0)**

This course will enable students to meet the requirements of NFPA 1041, Standard for Fire Service Instructor Professional qualifications. This course will expand the knowledge and ability of the student to develop comprehensive training curriculum and programs for use by single or multiple organizations; conduct organization needs analysis; and develop training goals and implementation strategies. This course will require the students to complete skill requirements of a Fire Instructor III as prescribed by Texas Commission on Fire Protection (TCFP).

**FESA 3346. Advanced Firefighting Strategies and Tactics. 3(3-0)**

Emphasis on the use of incident management in large scale command problems and other specialized fire problems. Students will utilize the National Infrastructure Preparedness Plan (NIPP, 2013) to identify Critical Infrastructure and Key Resources (CIKR) needs and issues in relation to strategy and tactical requirements related to Homeland Security responses.

**FESA 3348. Homeland Security and Homeland Defense. 3(3-0)**

This class will examine the policy and practices related to Homeland Security and Homeland Defense. Students will utilize the National Infrastructure Preparedness Plan (NIPP, 2013), Homeland Security and Homeland Defense documents to understand the policy and practices since the creation of the Department of Homeland Security. Students identify Critical

Infrastructure and Key Resources (CIKR) needs and issues in relation to requirements related to Homeland Security response.

**FESA 3350. Introduction to Fundamentals of Homeland Security. 3(3-0)**

This course is an introductory course that examines many facets of Homeland Security in the United States as it relates to emergency response. There will be a review of the historical and contemporary governmental theories and practices of Homeland Security and emergency services at both the public and private levels. An examination of Homeland Security as it relates to national, regional, state and local emergency responses will be provided. The course also details the administrative, legislative and operational elements of Homeland Security with an understanding and appreciation of Presidential declarations, Presidential directives, judicial rulings, Congressional initiatives and constitutional rights as it applies to providing emergency services to the citizens of the United States. Other topics to be presented as they relate to emergency responders may include the threat of terrorism, manmade and natural disasters, governmental policy, intelligence and investigative techniques that support this overall objective.

**FESA 3352. Homeland Security and Emergency Management Practices. 3(3-0)**

This course will examine the evolution of emergency management, homeland security and emergency response in the wake of the events of 9-11 and Hurricane Katrina. It will survey multiple disciplines involved in the disaster processes and future directions in these fields. Students will also examine the success and failures of emergency management by examining such incidents as World Trade Center Attacks, Pentagon Attacks, Hurricane Katrina, Hurricane Ike, Los Angeles Riots and other emergency events that have shaped the relationship between the fire service and emergency management and the Federal Government.

**FESA 3356. Business Continuity: Understanding Disaster Response and Recovery. 3(3-0)**

The course covers business continuity planning, from an emergency response methodology used to create and validate a plan for maintaining continuous business operations before, during, and after disasters or disruptive events. It also covers disaster recovery, which is aimed at stopping the effects of disasters as quickly as possible, and addressing the immediate aftermath.

**FESA 3358. Exercise, Design, and Evaluation for Fire and Emergency Service. 3(3-0)**

Exercise, Design, and Evaluation is intended to provide participants with the knowledge and skills to develop and conduct disaster exercises that will test a community's emergency operations plan and operational response capability. To this end, the course provides hands-on training in the design, conduct and evaluation of exercise so that participants will be able to develop and implement a comprehensive exercise program in their respective jurisdictions.

**FESA 4101. Jaguar Tracks IV - Critical Thinking for Public Safety. 1(1-0)**

The focus of this course is discovering students' place in a professional field where students will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. Prerequisite: Senior standing; UNIV 3101 or FESA 3101 or 90 or more earned academic semester credit hours; Enrollment in FADM, FESA, or HSEC concentration.

**FESA 4310. Fire and Emergency Services Administration. 3(3-0)**

This course is designed to be a progressive primer for students who want more knowledge about fire and emergency services administration. The course examines the important skills and knowledge needed to manage/lead fire and emergency services department through the challenges and changes of the 21st century. Topics include Leadership skills, accountable budgeting, anticipation of challenges and the need for change, and using specific management tools for analyzing and solving problems. A central part of the course focuses on how the leadership of a fire and emergency services department develops internal and external cooperation to create a coordinated approach to achieving the department's mission.

**FESA 4312. Applications of Fire Research. 3(3-0)**

This course examines the basic principles of research and methodology for analyzing current fire-related research. The course also provides a framework for conducting and evaluating independent research in the following areas: fire dynamics, fire test standards and codes, fire safety, fire modeling, structural fire safety, life-safety, firefighter health and safety, automatic detection and suppression, transportation fire hazards, risk analysis and loss control, fire service applied research and new trends in fire-related research.

**FESA 4314. Public Safety Leadership and Ethics. 3(3-0)**

This course will introduce students to a variety of issues within the context of leadership. Through a variety of learning methodologies such as written case studies, video case analysis, and interactive learning processes, the student will not only study leadership and ethics. A focus of this course is to provide public safety members with a greater understanding and appreciation of the concerns and issues involving leadership and ethics, which exist within the realm of public safety leadership. Further, it is the goal of this course for each student to exercise effective leadership in all aspects of life.

**FESA 4316. Developing Data-Based Outcomes for Fire and EMS. 3(3-0)**

This course will provide information and tools that fire service personnel and other public service managers can use to develop and prepare their agency to evaluate performance activities. The course will introduce the student to the self-assessment and accreditation processes as developed by Center for Public Safety Excellence (CPSE) and their accreditation programs administered by the Commission on Fire Accreditation International (CFAI) and the Commission on Professional Credentialing (CPC). The course will introduce students to basic analysis techniques using Microsoft Excel. Students will learn how to evaluate fire service data, develop recommendations, and identify needs and trends.

**FESA 4318. Terrorism and WMD. 3(3-0)**

Examines the philosophies and tactics of terrorist groups, in relation to the use of weapons of mass destruction (WMD), and discusses emerging terrorism trends and WMD issues in context of the fire service. Also, covers the study of the methodology, incident response, and managing the consequences of events involving terrorist activities and WMD's.

**FESA 4320. Financial Management and Public Budgeting for Fire and EMS. 3(3-0)**

Public budgeting is a complex and rapidly changing field. What public budgeting is depends on who asks the question and on prevailing collective views regarding the role and responsibility of government. Many questions and, thus, many answers are possible. But, who gets what and how governments generate the funds to finance public services are still the "big questions" of public budgeting. Students will be introduced to the principles and practices used by federal, state, and local governments to acquire and spend money within the context of American Democracy, capitalism, federalism, and economics.

**FESA 4324. Advanced Management for Chief Fire Officers. 3(3-0)**

This course will enable students to meet the knowledge and skill requirements of NFPA 1021, Standard for Fire Service Officer Professional qualifications, Chapter 7. The class is designed to focus on executive level chief officer management of fire service divisions/programs. The course will focus on several key administrative areas that the executive level fire officers are required to lead and manage. This course will require the students to complete skill requirements of a Fire Officer IV as prescribed by Texas Commission on Fire Protection (TCFP).

**FESA 4360. Homeland Security Law, Policy, and Practices for Emergency Responders. 3(3-0)**

This course will provide an overview of the laws governing the respective powers and responsibilities of the different branches of government (executive, legislative, and judiciary) at the federal, state, and local level as they relate to emergency administration, preparedness and response on matters affecting homeland security. Homeland security is an American umbrella term for "the concerted national effort to ensure a homeland that is safe, secure, and resilient against terrorism and other hazards where American interests, aspirations, and ways of life can thrive to the national effort to prevent terrorist attacks within the United States, reduce the vulnerability of the U.S. to terrorism, and minimize the damage from attacks that do occur. With the creation of the Department of Homeland Security and the changes to

emergency response policies and practices fire and emergency response personnel must have a sound understanding of the laws, policies and practices that govern the areas related to homeland security and emergency response.

**FESA 4362. Introduction to Critical Infrastructure and Key Resources. 3(3-0)**

The course will provide an overview of the nation's strategies for critical infrastructure protection. The course will examine the definition of critical infrastructure as it exists today. Students will examine the seventeen areas of critical infrastructure. Students will also gain insight and understanding into the public and private partnership that is involved in protecting Critical Infrastructure and Key Resources (CIKR).

**FESA 4364. Intro to Cybersecurity for Public Safety. 3(3-0)**

This course is an introduction to the field of Cybersecurity for those who are curious about it, and who want to be literate in the field. Learners will gain an overview of the Cybersecurity landscape including perspectives from both an international and national (USA) arenas along with a starter to the threat potential and the legal consequences. Students will be introduced how public safety can be impacted by cybersecurity attacks and other issues related to cybersecurity landscape.

**FESA 4366. Analyzing Public Policy in Relation to Fire and Emergency Services. 3(3-0)**

This class introduces fire and emergency services personnel to analytical frameworks for thinking about various aspects of public policy process. We do not student a single context or policy, but rather, seek to understand how policy actors succeed (or fail) in obtaining their objectives in relation to fire and emergency services issues related to public safety. You will learn to think carefully about institutions and how to present your analysis to city leader and policy makers.

**FESA 4368. Intro to Unmanned Aerial Devices (UAV). 3(3-0)**

A first course in unmanned aerial vehicles (UAVs), aka "drones", and the technologies involved in their operation. Coverage includes UAV components, command, and control (C2) communication systems, basics of flight, regulatory and regulations, safety and societal considerations.

**FINANCE (FINC)**

**FINC 3191. Finance Experiential Learning. 3(3-0)**

In this course, students will complete an experiential based learning project designed to complement courses within the College of Business. Students will apply and develop business skills. Prerequisite: FINC 3310. May be repeated once within different topics as needed and approved.

**FINC 3310. Corporate Finance. 3(3-0)**

This course provides a foundation of financial management techniques. It will present conceptual and application-oriented approaches to financial management. Topics may include time value of money, valuation of stocks and bonds, risk and return, capital budgeting analysis, financial planning, capital structure, dividend policy, and other topics associated with managerial finance decisions. This course is intended for Finance majors only. Credit cannot be earned for both FINC 3310 and FINC 3337. Prerequisites: Admitted to the College of Business and BUAD 2310.

**FINC 3321. Personal Financial Planning. 3(3-0)**

This course provides the basics of proper money management for personal and family lives. Topics include budgeting, insurance, tax planning, investment, selecting financial advisors, estate planning, consumer credit and current trends in financial services. Prerequisite: BUAD 2310.

**FINC 3328. Internship in Finance. 3(3-0)**

An off-campus learning experience allowing the acquisition and application of finance skills in an actual work setting. Prerequisite: admitted to the College of Business.

**FINC 3333. Commercial Bank Management. 3(3-0)**

Problems confronting commercial banks: development and application of credit standards, decisions on loan applications, liquidity management and profit sensitivity to varying interest rates. Prerequisite: FINC 3310 or equivalent.

**FINC 3337. Finance for non-Finance Majors. 3(3-0)**

The objective of the course is to provide a basic understanding of why business entities and financial markets behave the way they do. The course will focus on three major aspects of finance: the financial system, corporate finance, and investments. Focusing on the practical aspects of business enterprise this course will provide guidelines to analyze problems and find solutions using the techniques, methods and procedures applied by financial professionals. This course is intended for non-Finance majors. Finance majors may not take FINC 3337 for credit. Credit cannot be earned for both FINC 3310 and FINC 3337. Prerequisites: admitted to the College of Business and BUAD 2310.

**FINC 3338. Financial Statement Analysis. 3(3-0)**

Analysis and interpretation of financial statements for the guidance of management, stockholders and other stakeholders. Establishment of firms' business profiles; quality of earnings issues; and stock valuation. Prerequisite: admitted to the College of Business and grade of C or better in ACCT 3301/ACCT 3302 or equivalent. Cross listed with ACCT 3328.

**FINC 3345. Real Estate Finance. 3(3-0)**

Real estate valuation and methods of financing real estate transactions, property management and taxation. Instruments and sources of real estate credit. Real estate appraisal theory and practice. Real estate investment trusts (REIT). Prerequisite: FINC 3310 or equivalent.

**FINC 3351. Insurance and Risk Management. 3(3-0)**

Principles and practices of risk management and insurance. Property and casualty insurance, fire insurance, consequential loss, transportation insurance, automobile insurance, crime insurance and disaster insurance. Individual life insurance, annuities and health insurance products with emphasis on policy coverage. Prerequisite: FINC 3310 or equivalent.

**FINC 4191. Experiential Learning-Investing. 3(3-0)**

This class is an experiential learning class designed to enhance students' understanding of the investment process. In this course, the students will get hands-on experience in investing through simulation and will also create an investment account and start managing their own money. This course will cover the basic investment practices. Prerequisite: FINC 4331.

**FINC 4192. Finance Research Experience. 1(1-0)**

Guided student research in Finance. Finance students will explore and analyze a topic in depth and present their findings to the university community or professional conference or other appropriate venue. Prerequisite: FINC 3310. May be repeated once with different topics as needed and approved.

**FINC 4331. Investments. 3(3-0)**

Principles governing the proper investment of personal and institutional funds; the characteristics of a sound investment and the analysis of the different securities offered to investors. Prerequisites: Grade C or better in FINC 3310/FINC 3337 or equivalent.

**FINC 4332. Portfolio Management. 3(3-0)**

Analysis and evaluation of the decision-making process in investments. Asset valuation, portfolio and risk management and performance evaluation. Theoretical and analytical developments in security selection and portfolio management. Prerequisite: FINC 4331.

**FINC 4336. Financial Management. 3(3-0)**

Finance function and its integration into the administration of the firm. Selected case studies and problems illustrate techniques used in financial decision making and optimum capital utilization. Prerequisite: Grade C or better in FINC 3310.

**FINC 4341. Financial Markets and Institutions. 3(3-0)**

Financial markets and institutions in the U.S. economy. Determinants of savings and investments, interest rates and flow of funds. Role of regulatory agencies governing financial markets and institutions. Money and capital market instruments and institutions. Prerequisite: FINC 3310 or equivalent.

**FINC 4342. International Finance. 3(3-0)**

Foreign exchange markets, balance of international payments, short-term borrowing and investment decisions. Changes in exchange rates: pricing, profitability and output decision, international aspects of capital decisions. Prerequisite: Grade of C or better in FINC 3310/FINC 3337 or equivalent.

**FINC 4351. Behavioral Finance. 3(3-0)**

Behavioral finance introduces recent theories on cognitive biases, individual emotions and other psychological effects of decision making, exploring their applications in finance, investment, and management. Prerequisite: FINC 3310 or equivalent.

**FINC 4360. Options and Futures. 3(3-0)**

Structure of the options and futures markets and the trading system of derivatives. Options and futures pricing theory. Analysis of hedging strategies using options and futures. Role of options and futures trading strategies as part of portfolio management, performance evaluation and investment planning. Prerequisite: FINC 4331.

**FINC 4362. Financial Planning and Capital Budgeting. 3(3-0)**

Corporate analysis of valuations and investments, capital budgeting and financing, credit and debt management, risk management and taxation. Short-term planning including cash and working capital management. Long-term planning including debt and equity management. Prerequisite: FINC 3310.

**FINC 4364. Business Forecasting. 3(3-0)**

Techniques for statistically sound business forecasting. Graphical analysis and concepts such as seasonality, trends and cycles. Advanced forecasting using ARMA modeling as well as regression. Prerequisite: BUAD 3360.

**FINC 4366. Entrepreneurial Finance. 3(3-0)**

Financial issues affecting entrepreneurial investments associated with small or rapidly growing ventures. How investors and entrepreneurs create value. Strategic and business planning, financial forecasting, valuation, organizational design and financial contracting, and harvesting strategies. Prerequisite: FINC 3310 OR Equivalent.

**FINC 4393. Special Problems in Finance. 3(3-0)**

Special studies in finance. May be repeated once for credit. Prerequisite: admitted to the College of Business.

**GEOGRAPHY (GEOG)****GEOG 1302. Cultural Geography. 3(3-0)**

A survey of the cultural diversity found on earth. Topics include population, language, religion, ethnicity, and popular culture, with a special focus on spatial attributes and expressions of culture. Prerequisite: TSI Reading and Writing.

**GEOG 1303. World Geography. 3(3-0)**

Study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends, and the awareness of diversity of ideas and practices found in those regions. Course content may include one or more regions. Prerequisite: TSI Reading and Writing.

**GEOG 2390. Selected Topics - Geography. 3(3-0)**

A course in geography in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. Prerequisite: permission of the instructor. Prerequisite: TSI Reading/Math.

**GEOG 3305. Environmental Geography. 3(3-0)**

The nature, geographic distribution, use and misuse of global resources with emphasis on those of North America. Ecosystems, air, water, soil, mineral and energy resources will be considered. Prerequisites: 3 semester credit hours of Geography or a science course (see General Education Requirements Natural sciences component).

**GEOG 3331. United States and Canada. 3(3-0)**

The regional aspects of landforms, climate, resources and peoples of United States and Canada. Prerequisite: 12 semester hours of social sciences.

**GEOG 4390. Advanced Topics - Geography. 3(3-0)**

A course in geography in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. (Maximum 6 hours). Prerequisites: Permission of the instructor.

**GEOLOGY (GEOL)****GEOL 1101. Earth Sciences Laboratory I. 1(0-1)**

Laboratory course linked to GEOL 1301. Laboratory exercises reinforce concepts related to the formation of earth materials, processes of plate tectonics and of atmosphere. The course emphasizes scientific communication and collaboration as well as measurement methods, observation, and inference. Co-requisite: GEOL 1301. Prerequisite: TSI Reading and Writing.

**GEOL 1102. Earth Sciences Laboratory II. 1(0-1)**

Laboratory course linked to GEOL 1302. Laboratory exercises reinforce concepts in historical geology. The course emphasizes scientific communication and collaboration as well as measurement methods, observation, and inference. Co-requisite: GEOL 1302. Prerequisite: TSI Reading and Writing.

**GEOL 1301. Earth Sciences I. 3(3-0)**

This is an interdisciplinary earth science course, incorporating aspects of mathematics, chemistry, biology, and physics to study geological, oceanic, and atmospheric processes. The questions examined in this course are: How did planet earth form and how does it work? What is it made up of, and how does it change through time? Plate tectonics, earth materials, landforms, structures, climate, and the formation of natural resources will be studied. The process of scientific discovery will be introduced through local field trips, sample and data collection, and their interpretation. This course meets the standards for the 'Life and Physical Sciences' category of courses under the core curriculum. Prerequisite: TSI Reading, Writing, and Math.

**GEOL 1302. Earth Sciences II. 3(3-0)**

This is the second course in earth sciences, incorporating aspects of mathematics, chemistry, biology, and physics to study geological, oceanic, and atmospheric processes. It covers the surface features and processes of the planet, including the atmosphere and the hydrological cycle, as well as earth's interior. Topics of study include volcanoes, earthquakes, climate, and the hydrological cycle. The process of scientific discovery will be introduced through local field trips, sample and data collection, and their interpretation. This course meets the standards for the 'Life and Physical Sciences' category of courses under the core curriculum. Prerequisite: TSI Reading, Writing, and Math.

**GEOL 2390. Selected Topics- Geology. 3(3-0)**

A course in geology in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. Instructor approval required. Prerequisite: TSI Math, Reading, Writing.

**GEOL 3331. Hydrology. 3(3-0)**

This course provides instruction on the principles and practice of chemical and microbiological analysis for nonstandard water and wastewaters. Chemical and biological testing requirements of governmental regulatory agencies are examined. This course also provides an overview of the theory; processes, and technologies used in common membrane water treatment systems. Content includes micro-filtration, ultra-filtration, electrode-ionization, nano-filtration and reverse osmosis membrane technologies. Students will also examine system design considerations and membrane integration into water treatment systems. Students will also learn the theory and technologies to perform on-stream analysis for the measurement of inorganic and organic compounds, ions, particles and microorganisms. Prerequisites: CHEM 1111, CHEM 1112, CHEM 1311, and CHEM 1312.

**GEOL 4390. Advanced Topics- Geology. 3(3-0)**

A course in geology in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once. (Maximum 6 hours). Instructor approval required.

**GOVERNMENT (GOVT)****GOVT 2304. Introduction to Political Science. 3(3-0)**

Introductory survey of the discipline of political science focusing on the scope, and methods of the field, and the substantive topics in the discipline including the theoretical foundations of politics, political interaction, political institutions and how political systems function. Prerequisite: TSI Reading/Writing

**GOVT 2305. Federal Government. 3(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. Prerequisite: TSI Reading/Writing.

**GOVT 2306. Texas Government. 3(3-0)**

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Prerequisite: TSI Reading/Writing.

**HEALTHCARE ADMINISTRATION (HCSA)****HCSA 3311. Principles of Healthcare Administration. 3(3-0)**

An introduction to the principles of management and leadership as the foundations for the administration of health care products and service delivery. The evolution of management principles and practices are traced and the bases for healthcare administration are analyzed. Emphasis is on the management of global health care systems in technological societies and the need for innovation and creativity in health care administration. Must be taken in the first semester of enrollment.

**HCSA 3337. Financial Management of Healthcare Organizations. 3(3-0)**

Students will learn financial decision-making techniques: i.e., planning, control, budgeting, time value of money, etc., used to meet a health care organization's goals and objectives to provide ongoing and quality services for its clientele.

**HCSA 3341. Healthcare Law and Policy. 3(3-0)**

Students develop an understanding of the current laws, rules and regulations that impact health services organizations.

**HCSA 4321. Healthcare Information Systems. 3(3-0)**

This course introduces students to the concepts and practices of health informatics. Topics include: a) an introduction to the health informatics field; b) major applications and commercial vendors; c) decision support methods and technologies; d) analysis, design, implementation, and evaluation of healthcare information systems; and e) new opportunities and emerging trends.

**HCSA 4322. Managed Care and Health Insurance. 3(3-0)**

A comprehensive examination of the complex, dynamic, rapidly changing health care system in the United States. The health care system's major components and their characteristics are identified. Emphasis is on current problems in health care financing and delivery. Social, economic, and political forces that have shaped and continue to influence the system are traced. The health care system in the United States is compared with systems in industrialized and developing nations. Analysis covers current trends in health care and prospects for the future.

**HCSA 4323. Quality Management in Healthcare Organizations. 3(3-0)**

An exploration of the technical, managerial, and organizational issues that are important in understanding and implementing quality management systems in health services organizations.

**HCSA 4325. Healthcare Ethics and Compliance. 3(3-0)**

Students will develop an understanding of professional standards for health care administrators. They will also learn strategies for proactively managing an organization within the context of regulatory environment.

**HISTORY (HIST)****HIST 1301. US History to 1865. 3(3-0)**

Incorporating many perspectives, this course examines pre-Columbian societies, colonial America, the American Revolution, the early Republic, westward expansion, and the Civil War, among other topics. Prerequisite: TSI Reading and Writing.

**HIST 1302. US History from 1865. 3(3-0)**

Incorporating many perspectives, this course examines Reconstruction, the Gilded Age and Progressive Era, World War I, the Great Depression, World War II, post-war America, and other topics. Prerequisite: TSI Reading and Writing.

**HIST 2301. Texas History. 3(3-0)**

Spanish background, Anglo-American settlement, the Revolution and Republic and statehood; economic, cultural and political development. Prerequisite: HIST 1301, HIST 1302.

**HIST 2310. Writing History. 3(3-0)**

An overview of writing for the historical profession, including proper citation style.

**HIST 2312. Native American History. 3(3-0)**

Survey of Native American history in North America, from prehistoric times to the present. (Formerly 3312) Prerequisite: TSI Reading and Writing.

**HIST 2313. Islamic World I. 3(3-0).**

Examination of the history of the Islamic World from its origins in the 7<sup>th</sup> century CE to 1500 CE (Formerly 3313) Prerequisite: TSI Reading and Writing.

**HIST 2314. Islamic World II. 3(3-0)**

Examination of the history of the Islamic World from 1500 CE to the present. (Formerly 3314) Prerequisite: TSI Reading and Writing.

**HIST 2321. World Civilizations I. 3(3-0)**

Survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange. Prerequisite: TSI Reading and Writing.

**HIST 2322. World Civilizations II. 3(3-0)**

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 and their global interactions over time. Themes include maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. This course emphasizes the development, interaction and impact of global exchange. Prerequisite: TSI Reading and Writing.

**HIST 2348. Mexican American History, 1848 to present. 3(3-0)**

Examination of the experience of Mexican Americans since the Treaty of Guadalupe Hidalgo to the present day. (Formerly 3348). Prerequisite: TSI Reading and Writing.

**HIST 2351. Latin American I: Colonial Era. 3(3-0)**

Historical background of early Latin America from pre-Colonial times to the 19<sup>th</sup> century. (Formerly 4351) Prerequisite: TSI Reading and Writing.

**HIST 2352. Latin America II: Modern Era. 3(3-0)**

Historical background of contemporary Latin America. (Formerly 4352). Prerequisite: TSI Reading and Writing.

**HIST 2358. Asian History. 3(3-0)**

An introduction to political, social, cultural and economic Asian history from antiquity to the present. Emphasis on the study not only of important Asian leaders, cultures and societies, but also of the various religions and philosophies which originated in Asia. (Formerly 4358). Prerequisite: TSI Reading and Writing.

**HIST 2361. African American History. 3(3-0)**

A survey of the African American experience from the colonial period to the post-civil rights era. (Formerly 4361). Prerequisite: TSI Reading and Writing.

**HIST 3101. Jaguar Tracks III: History. 1(1-0)**

Development course for upper-level History majors. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

**HIST 3301. Introduction to Historical Analysis. 3(3-0)**

Survey of historiographical literature in selected subject areas; overview of the paradigms and approaches that guide research into and writing about the past. Prerequisites: HIST 1301 and HIST 1302

**HIST 3311. History of the Spanish Borderlands. 3(3-0)**

Examination of the history of the Spanish empire in the present-day parts of the United States. Prerequisites: HIST 1301 and HIST 1302.

**HIST 3312. Europe in the Middle Ages. 3(3-0)**

Political, economic and cultural developments in Europe from the fall of the Roman Empire to the Renaissance. Formerly 4312. Prerequisites: HIST 2321 or HIST 2322.

**HIST 3315. Early Modern Europe to 1815. 3(3-0)**

Political, economic, and cultural developments in Europe including the Renaissance, Reformation, and Enlightenment periods. Formerly 4315. Prerequisite: HIST 2321 or HIST 2322.

**HIST 3316. Europe 1815-1914. 3(3-0)**

Political, social and economic developments in Europe from the Congress of Vienna to the outbreak of World War I with emphasis on the rise of liberalism, nationalism and imperialism. Formerly 4316. Prerequisite: HIST 2321 or HIST 2322.

**HIST 3318. Europe since 1914. 3(3-0)**

Political, social and economic developments in Europe from World War I to the present. Formerly 4318. Prerequisite: HIST 2321 or HIST 2322.

**HIST 3330. Colonial America. 3(3-0)**

English colonization, Anglo-Indian relations, the emergence of slavery, Puritanism, ending with the French & Indian War. Formerly 4330. Prerequisite: HIST 1301 and HIST 1302.

**HIST 3331. American Revolution and Early Republic, 1763-1850. 3(3-0)**

American rebellion, the Revolution, the Confederation period, the Constitution, the Federalist, Jeffersonian, and Jacksonian eras, ending with the Mexican American War and the Compromise of 1850. Formerly 4331. Prerequisite: HIST 1301 and HIST 1302.

**HIST 3334. The Civil War and Reconstruction. 3(3-0)**

Secession, formation of the Confederacy, military campaigns and Reconstruction. Formerly 4334. Prerequisite: HIST 1301 and HIST 1302.

**HIST 3336. America's Rise to World Power, 1920-1945. 3(3-0)**

The 1920s, the Great Depression, and World War II. Formerly 4336. Prerequisite: HIST 1301 and HIST 1302.

**HIST 3338. United States Since 1945. 3(3-0)**

Post-war abundance, the Cold War, social and cultural changes, the Vietnam era and the post-Nixon years. Formerly 4338. Prerequisite: HIST 1301 and HIST 1302.

**HIST 3356. Mexico. 3(3-0)**

Political, economic and social history of Mexico from pre-Columbian times to the present. Emphasis on the last century. Formerly 4356. Prerequisite: HIST 1301 and HIST 1302.

**HIST 4101. Jaguar Tracks IV: History. 1(1-0)**

Capstone development course for upper-level History majors. Prerequisite: UNIV 3101 or HIST 3101 or 90 or more earned academic semester credit hours.

**HIST 4301. Methods of Historical Research. 3(3-0)**

Procedures and methods of historical research. Introduction to types of historical data, the analysis of sources, the use of computer techniques in historical research and the methods of historical writing. Prerequisite: HIST 3301

**HIST 4311. Crusading in Medieval Europe. 3(3-0)**

This is a social and cultural history of medieval Europe during the time of the crusades. Prerequisites: HIST 1301, HIST 1302, HIST 2321, and HIST 2322.

**HIST 4313. Heretics and Witches. 3(3-0)**

This course introduces students to heresy and witchcraft in medieval and early modern Europe. Prerequisites: HIST 1301, HIST 1302, HIST 2321, and HIST 2322.

**HIST 4317. Nazi Germany. 3(3-0)**

Origins, history, and development of the National Socialist German Worker's Party in the period between 1920 and 1945. Prerequisite: HIST 1301 and 1302.

**HIST 4319. The Holocaust. 3(3-0)**

Origins, history, and course of the National Socialist effort to annihilate the Jews of Europe. Prerequisite: HIST 1301 and HIST 1302.

**HIST 4340. U.S. Social and Cultural History. 3(3-0)**

The development of American society and culture with emphasis on religious trends, ethnic groups and the family. Prerequisite: HIST 1301 and HIST 1302.

**HIST 4342. U.S. Foreign Policy. 3(3-0)**

American foreign relations from the Revolution to the present with emphasis on the 20th century. Prerequisite: HIST 1301 and HIST 1302.

**HIST 4347. The American West. 3(3-0)**

An examination of the history of the American West from pre-contact to the present. Prerequisites: HIST 1301 and HIST 1302.

**HIST 4335. Gilded Age and Progressive Era, 1877-1920. 3(3-0)**

Industrial revolution, labor-business struggles, rise of Jim Crow, urbanization, immigration, Populism, Progressivism, World War One. Formerly 4335. Prerequisite: HIST 1301 and HIST 1302.

**HIST 4360. Women in History. 3(3-0)**

Investigation of the social, economic and political position of women from the Renaissance to contemporary America and a comparison of the ideal expounded by different historical epochs with woman's actual role in each society. Prerequisite: HIST 1301 and HIST 1302.

**HIST 4363. War and Society. 3(3-0)**

The social, economic, political, and technological impact of warfare in world history. Prerequisite: HIST 2321 and HIST 2322.

**HIST 4366. Childhood in America. 3(3-0)**

A survey of the history of children, childhood, and youth in the US and global context. Examines the historical experiences of children and youth, as well as changing ideas about childhood and adolescence, across historical periods. Prerequisites: HIST 1301 and HIST 1302.

**HIST 4364. Women and Gender in Latin America. 3(3-0)**

Intensive seminar on the history of women in Latin America from pre-Columbian times to the present, exploring their role in various societies and challenges to notions of ideal womanhood during conquest, settlement, independence, and nation-state formation.

**HIST 4370. Crucial Topics in History. 3(3-0)**

Intensive seminar on a specialized topic in history, culminating in the production of a significant research paper. May be repeated once for credit as the topic changes. Prerequisite: HIST 2321 and HIST 2322.

**HIST 4398. History Internship. 3(3-0)**

Supervised professional experience in a museum, archive, public history site, or other community setting. Student may repeat this class for a maximum of 6 semester credit hours. Prerequisite: Approval of History faculty.

**MATHEMATICS (MATH)****MATH 1014. College Algebra Recitation. 0(0-1)**

This mathematics recitation course has been designed to supplement MATH 1314: College Algebra. Recitation time is designed to give college algebra students extra time, help, and instruction that is valuable for success in the course. Must be enrolled in corresponding MATH 1314 section. Prerequisites: Evidence of math equivalent to high school Algebra II (grade of 'C' or higher) or placement. TSI Mathematics. Corequisite: MATH 1314.

**MATH 1024. Mathematics for Business and Social Sciences I Recitation. 0(0-1)**

This mathematics recitation course has been designed to supplement MATH 1324: Mathematics for Business and Social Sciences I. Recitation time is designed to give Mathematics for Business and Social Sciences I students extra time, help, and instruction that is valuable for success in the course. Must be enrolled in corresponding MATH 1324 section. Prerequisites: Evidence of math equivalent to high school Algebra II (grade of 'C' or higher) or placement. TSI Mathematics. Corequisite: MATH 1324.

**MATH 1025. Mathematics for Business and Social Sciences II Recitation. 0(0-1)**

This mathematics recitation course has been designed to supplement MATH 1325: Mathematics for Business and Social Sciences II. Recitation time is designed to give Mathematics for Business and Social Sciences II students extra time, help, and instruction that is valuable for success in the course. Must be enrolled in corresponding MATH 1325 section. Prerequisite: MATH 1314, MATH 1324, or equivalent, (with grade of 'C' or better), or department approval. Corequisite: MATH 1325.

**MATH 1042. Introductory Statistics Recitation. 0(0-1)**

This mathematics recitation course has been designed to supplement MATH 1342: Introductory Statistics. Recitation time is designed to give Introductory Statistics students extra time, help, and instruction that is valuable for success in the course. Must be enrolled in corresponding MATH 1342 section. Corequisite: MATH 1342. TSI Requirement: Math.

**MATH 1314. College Algebra. 3(3-0)**

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. This course meets the standards for the Mathematics category of courses under the core curriculum. Prerequisite: Evidence of math equivalent to High School Algebra II ("C" or higher) or placement. TSI Math. Corequisite: MATH 1014.

**MATH 1316. Trigonometry. 3(3-0)**

This course is a study of trigonometric functions, their properties, and applications of trigonometric functions of angles, degree and radian measure, circular functions, graphs, identities, inverse trigonometric functions, polar coordinates, solution of general triangles, and complex numbers. Prerequisite: Math 1314 with a minimum grade of "C" or equivalent as approved by department. TSI MATH.

**MATH 1324. Mathematics for Business and Social Sciences I. 3(3-0)**

Students will study topics from college algebra (linear equations, quadratic equations, functions and graphs, inequalities), mathematics of finance (simple and compound interest, annuities), linear programming, matrices, systems of linear equations, and applications to management, business and social sciences. This course meets the standards for the Mathematics category of courses under the core curriculum. Prerequisite: Evidence of math equivalent to High School Algebra II ("C" or higher) or placement. TSI Math. Corequisite: MATH 1024.

**MATH 1325. Mathematics for Business and Social Sciences II. 3(3-0)**

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2313, Calculus I. Prerequisite: MATH 1314 College Algebra or MATH 1324 Mathematics for Business and Social Sciences (with a grade of "C" or higher) or equivalent or department approval. Corequisite: MATH 1025.

**MATH 1332. Contemporary Mathematics I. 3(3-0)**

This course is a study of an introduction to treatments of sets, logic, number systems, number theory, relations, functions, probability, and statistics. Appropriate applications are included. This course meets the standards for the Mathematics category of courses under the core curriculum. Prerequisite: Evidence of math equivalent to High School Algebra II or placement. TSI Requirement Math.

**MATH 1342. Introductory Statistics. 3(3-0)**

Students will study the collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Appropriate technology used. This course meets the standards for the Mathematics category of courses under the core curriculum. Prerequisite: Evidence of math equivalent to High School Algebra II ("C" or higher) or placement. TSI requirement: Math. Corequisite: MATH 1042.

**MATH 1350. Fundamentals of Mathematics I. 3(3-0)**

Study of the concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. Prerequisites: MATH 1314 College Algebra or equivalent.

**MATH 1351. Fundamentals of Mathematics II. 3(3-0)**

Study of the concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for student who seek middle grade (4 through 8) teacher certification. Prerequisites: MATH 1350 with a grade of "C" or higher or equivalent.

**MATH 2113. Calculus I Lab. 1(0-1)**

This course provides a lab framework for exploring and reinforcing calculus concepts studied in MATH 2313 and must be taken concurrently with Math 2313. Prerequisite: MATH 2312 Pre-Calculus with a grade of "C" or higher or equivalent or permission of department. Corequisite: MATH 2313.

**MATH 2114. Calculus II Lab. 1(0-1)**

This course provides a lab framework for exploring and reinforcing calculus concepts studied in MATH 2314 and must be taken concurrently with Math 2314. Prerequisite: MATH 2313 Calculus I and MATH 2113 both with a grade of "C" or higher or equivalent or permission of department. Corequisite: MATH 2314.

**MATH 2190. Topics in Mathematics. 1(1-0)**

Different topics in mathematics will be covered at varying times. May be repeated for credit with consent of the department. Prerequisites: MATH 1314 or MATH 1324 with a grade of 'C' or higher, or consent of the instructor.

**MATH 2290. Topics in Mathematics. 2(2-0)**

Different topics in mathematics will be covered at varying times. May be repeated for credit with consent of the department. Prerequisites: MATH 1314 or MATH 1324 with a grade of 'C' or higher, or consent of the instructor.

**MATH 2312. Pre-Calculus. 3(3-0)**

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. This course meets the standards for the Mathematics category of courses under the core curriculum and address the following required

objectives: Critical Thinking, Communication, and Empirical Quantitative Skills. Prerequisite: MATH 1314 College Algebra with a grade of "C" or higher.

**MATH 2313. Calculus I. 3(3-0)**

The course encompasses the study of limits, continuity, and derivatives of algebraic, trigonometric and transcendental functions and related applications to include maximizing or minimizing a function and rate of change problems. This course also introduces the definite integral, the Fundamental Theorem of Calculus and application to calculation of areas. Curve sketching and graphing tools will be utilized in exploring these concepts. Must be taken concurrently with MATH 2113. Prerequisite: MATH 2312 Pre-Calculus with a grade of 'C' or higher, or equivalent or permission of department. Corequisite: MATH 2113.

**MATH 2314. Calculus II. 3(3-0)**

Calculus II, a continuation of Calculus I, encompasses the study of integration of transcendental functions, techniques of integration, polar coordinates, improper integrals, sequences, and series. Must be taken concurrently with MATH 2114. Prerequisite: MATH 2313 Calculus I and MATH 2113 both with a grade of 'C' or higher, or equivalent or permission by department. Corequisite: MATH 2114.

**MATH 2390. Topics in Mathematics. 3(3-0)**

Different topics in mathematics will be covered at varying times. May be repeated for credit with consent of the department. Prerequisites: MATH 1314 or MATH 1324 with a grade of "C" or higher, or consent of the instructor.

**MATH 2490. Topics in Mathematics. 4(3-3)**

Different topics in mathematics will be covered at varying times. May be repeated for credit with consent of the department. Prerequisites: MATH 1314 or MATH 1324 with a grade of 'C' or higher, or consent of the instructor.

**MATH 3301. Biostatistics. 3(3-0)**

This course is for students in biology, health sciences, human sciences and wildlife science. Content includes descriptive and inferential statistics, basic probability concepts, probability distributions, statistical significance and hypotheses testing, correlation, simple linear regression, introduction to ANOVA, and interpreting statistical software output. May not be taken for credit as a math elective for students who major or minor in math. Prerequisite: MATH 1314.

**MATH 3320. Differential Equations. 3(3-0)**

The ordinary differential equations of physics, chemistry and engineering; methods for their solutions and the properties of their solution. Introduction to partial differential equations. Prerequisite: MATH 2314, MATH 2114 with a grade of "C" or higher.

**MATH 3321. Applied Partial Differential Equations. 3(3-0)**

This course provides an introduction to the basic concepts and widely used techniques of partial differential equations (PDEs) that are frequently used by applied scientists and engineers, et al. Topics covered include: PDEs and boundary value problems, waves and diffusions, Fourier series, the Laplace equation, the heat equation, harmonic functions, Green identities and Green functions, vibrations of continuous systems, the potential equation and spectral methods for eigenvalue problems. Prerequisites: MATH 3415 Calculus III and MATH 3320 Differential equations with a grade of "C" or higher.

**MATH 3325. Introduction to Mathematical Proofs. 3(3-0)**

This course is a study of the principles and techniques of interpreting, discovering and writing correct mathematical proofs. Students learn to independently prove theorems from various areas in mathematics, which may include topics from logic, the structure of the real number system, number theory, geometry and algebra. Prerequisite: MATH 2313, MATH 2113 with a grade of "C" or higher.

**MATH 3340. Linear Algebra with Applications. 3(3-0)**

Systems of linear equations, matrices, determinants, vector spaces, eigenvectors, eigenvalues, orthogonality, linear transformations and their representations by matrices, and applications. Prerequisite: MATH 2313, MATH 2113 with a grade of "C" or higher.

**MATH 3350. Probability and Statistics for Teachers. 3(3-0)**

Principles and practices of probability and statistics designed for education students seeking a Generalist (4-8) with Math concentration degree. The course explores statistical applications, applying descriptive statistics, interval estimates, hypothesis tests, linear regression with an emphasis on data description and interpretation. Prerequisite: Math 1314. May not be taken for credit as a math elective for students who major or minor in math.

**MATH 3360. Modern Geometry. 3(3-0)**

An axiomatic approach to geometry to include contrasting traditional and modern approaches to geometry, an introduction to non-Euclidean geometry with historical perspectives, and applications. May not be taken for credit as a math elective for students who minor in math. Prerequisite: Math 3325 with a grade of "C" or higher.

**MATH 3370. Discrete Mathematics. 3(3-0)**

This course covers many topics in mathematics which are important in computer science. Some of these topics are sets, relations, functions, algorithms, graphs, monoids, lattices, Boolean algebras and graphs. Prerequisite: MATH 3320, MATH 3325, MATH 3340 or MATH 3415; all prerequisites require a grade of "C" or higher.

**MATH 3371. Problem Solving with Computers. 3(3-0)**

Introduction to computational mathematics with a focus on strategies for solving problems using Computer Algebra Systems in various applications. Prerequisite: MATH 2313 (taken with MATH 2113 Calculus I Lab) or MATH 1325 with a grade of "C" or higher.

**MATH 3372. Mathematical Biology. 3(3-0)**

Students will investigate mathematical biology models such as population growth for single species and multiple species, infectious disease dynamics models, biochemical enzyme reactions, and biological oscillations. Appropriate mathematical techniques are applied to analyze the models and obtain solutions. Model improvements will also be evaluated for more practical modeling effects. Prerequisites: MATH 2313 Calculus I (taken with MATH 2113 Calculus Lab) or Math 1325 Mathematics for Business and Social Sciences II, with a grade of "C" or higher.

**MATH 3373. Mathematical Physiology. 3(3-0)**

This course introduces mathematical physiology models that describe various important functioning principles of human organs. Appropriate variables are included to capture the factors of interest. Students will study variables that are significant in maintaining a healthy physiological process and apply models to predict future pathological processes. Prerequisite: MATH 3372 Mathematical Biology.

**MATH 3415. Calculus III. 4(4-0)**

This course covers sequences and series, functions of several variables, three dimensional geometry, partial derivatives, multiple integrals, line and surface integrals, Green's Theorem, Stroke's Theorem, and applications. Prerequisite: MATH 2314, MATH 2114 with a grade of "C" or higher.

**MATH 4180. Undergraduate Research in Math. 1(1-0)**

Opportunities for student to conduct research at an advanced undergraduate level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisites: Nine hours of advanced math beyond MATH 3325 with grades of 'C' or higher or consent of the department head.

**MATH 4190. Advance Topics in Mathematics. 1(1-0)**

Different advanced topics will be covered at varying times. May be repeated for credit with consent of the instructor.  
Prerequisite: Nine hours of advanced mathematics to include MATH 3325 with a grade of 'C' or higher.

**MATH 4280. Undergraduate Research in Math. 2(2-0)**

Opportunities for student to conduct research at an advanced undergraduate level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisites: Nine hours of advanced math beyond MATH 3325 with grades of 'C' or higher or consent of the department head.

**MATH 4290. Advance Topics in Mathematics. 1(1-0)**

Different advanced topics will be covered at varying times. May be repeated for credit with consent of the instructor.  
Prerequisite: Nine hours of advanced mathematics to include MATH 3325 with a grade of 'C' or higher.

**MATH 4303. Statistical Methods. 3(3-0)**

Calculus-based probability, discrete and continuous random variables, joint distributions, sampling distributions, the central limit theorem, descriptive statistics, interval estimates, hypothesis tests, ANOVA, correlation and simple regression.  
Prerequisite: MATH 2314, MATH 2114 with a grade of "C" or higher.

**MATH 4321. Real Variables. 3(3-0)**

A study of the real number system, its structure and properties to include an introduction to the theory of sets, properties of real-valued functions and sequences, limits, continuity, differentiation, and uniform convergence. Prerequisite: MATH 3325 and one of the following: MATH 3415, MATH 3370, MATH 3340, MATH 4340; Grade of "C" or higher for prerequisites.

**MATH 4325. Topology. 3(3-0)**

This course provides an introduction to the basic concepts and techniques of point set topology that are frequently used by scientists, physicists, and engineers etc. Topics covered include: metric spaces, topological spaces, and continuous real-valued functions. Prerequisites: MATH 3325 and MATH 3415 both with a grade of "C" or higher.

**MATH 4330. Number Theory. 3(3-0)**

The course explores fundamental concepts in elementary number theory to include divisibility, congruence relations, rational integers, Diophantine equations, quadratic reciprocity, integral domains, and related topics. Prerequisites: Math 3325 and Math 3370.

**MATH 4340. Modern Algebra. 3(3-0)**

A study of basic algebraic structures with applications from algebraic or analytic number theory. Topics include: properties of the Integers, prime factorization, congruences, finite groups, subgroups, cosets, homomorphisms, integral domains and rings. Prerequisite: MATH 3325 and one of the following: MATH 3415, MATH 3370, MATH 3340, MATH 4341; all prerequisites require a grade of "C" or higher.

**MATH 4341. Linear Algebra and Matrix Theory. 3(3-0)**

A study of linear algebraic structures to include vector spaces, subspaces, bases, dimension and normed spaces. Related topics include: vector geometry, orthogonality, normal forms eigenvalues, linear and special transformations. Prerequisite: Any two of the following: MATH 3415, MATH 3325, MATH 3340, MATH 3370, MATH 4321, MATH 4330; all prerequisites require a grade of "C" or higher.

**MATH 4350. Probability. 3(3-0)**

Sample spaces, combinatorics, independence, conditional probability and Bayes' rule. Discrete and continuous probability distributions, Chebychev's inequality and limit theorems. Prerequisite: MATH 3415 or consent of the instructor.

4360. Introduction to Graph Theory. 3(3-0)

This course covers the fundamental concepts of graph theory including basic properties, simple graphs, digraphs, Eulerian and Hamiltonian graphs, trees, matchings, networks, paths and cycles, graph colorings, and planar graphs. Related applications and famous problems in graph theory will also be explored. Prerequisite: MATH 3340 with a grade of "C" or higher. Math 3370 recommended.

**MATH 4370. Vector Analysis. 3(3-0)**

The study of vector algebra and geometry, vector functions, and vector fields with applications to line and surface integrals. Some topics include vector operations, vector fields of motion in polar coordinates, and perspectives of generalized differential operators. Prerequisites: MATH 3415 with a grade of "C" or higher and MATH 3320 or equivalent.

**MATH 4374. Numerical Analysis. 3(3-0)**

The mathematical formation of the concepts in numerical analysis. These concepts include the theory of errors, roots of equations, interpolation, linear systems of equations, numerical differentiation, and integration and solutions of ordinary differential equations. Prerequisites: MATH 3415 and MATH 3320 or consent of the instructor.

**MATH 4375. Applied Complex Analysis. 3(3-0)**

This course provides an introduction to the basic concepts and techniques of complex analysis that are frequently used by scientists, physicists, and engineers. Topics covered include: complex numbers, analytic and harmonic functions, Cauchy's integral theorem, Taylor and Laurent expansions, Cauchy's residue theorem, and conformal mappings. Prerequisite: MATH 3415 with a grade of 'C' or higher. MATH 3320 and MATH 3360 recommended.

**MATH 4380. Undergraduate Research in Mathematics. 3(3-0)**

Opportunities for advanced students to conduct research at an advanced undergraduate level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisites: Nine semester hours of advanced math beyond MATH 3325 with a grade of 'C' or higher or consent of the department head.

**MATH 4390. Advanced Topics in Mathematics. 3(3-0)**

Different advanced topics will be covered at varying times, May be repeated for credit with consent of the instructor. Prerequisite: Nine hours of advanced mathematics to include MATH 3325 with a grade of "C" or higher.

**MATH 4480. Special Topics in Mathematics. 4(3-3)**

Opportunities for advanced students to conduct research at an advanced undergraduate level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisites: Nine semester hours of advanced math beyond MATH 3325 with a grade of 'C' or higher or consent of the department head.

**MATH 4490. Advanced Topics in Mathematics. 4(3-3)**

Different advanced topics will be covered at varying times, may be repeated for credit with consent of the instructor. Prerequisite: Nine hours of advanced mathematics to include MATH 3325 with a grade of 'C' or higher.

**MANAGEMENT (MGMT)**

**MGMT 3128. Internship in Management. 1(1-0)**

An off-campus learning experience allowing the acquisition and application of management skills in an actual work setting. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325, and instructor approval.

**MGMT 3160. Teamwork. 1(1-0)**

This is a course develops practical interpersonal skills for implementing effective strategies for group situations in the workplace. It involves experiential learning to promote active discovery of team building principles. This course meets the College of Business Experiential Learning requirement.

**MGMT 3228. Internship in Management. 2(2-0)**

An off-campus learning experience allowing the acquisition and application of management skills in an actual work setting. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325, and instructor approval.

**MGMT 3311. Principles of Management. 3(3-0)**

Introduction to the management of business organizations. The functions of management and role of the manager. Managerial decision-making, communication, social responsibility and business ethics. How organizational power and politics affect the manager. Prerequisites: ENGL 1301 and ENGL 1302.

**MGMT 3320. Supply Chain and Operations Management. 3(3-0)**

A survey of lean, quality, supply chain, and other operations management guiding concepts and quantitative tools utilized to plan, design, control physical resources/business information to produce/provide goods /services from raw material supplier to end customer. Prerequisite: Completion of the College of Business prerequisites.

**MGMT 3323. Employment Law. 3(3-0)**

This course examines the set of legal requirements that govern the U.S. workplace. Students will study the substance of employment and labor law and its implications for human resource practice as applied in the employment life cycle. Areas of study include, but are not limited to, legal issues affecting the employment process, employee development, compensation and benefits, performance management, and occupational health and safety. The course will also examine the legal framework that govern the relationship with unions and management/labor engagement in collective bargaining. Prerequisite: MGMT 3325, Completion of the College of Business prerequisites.

**MGMT 3325. Human Resources Management and Procedures. 3(3-0)**

Human resources planning, employment, appraisal, training and pecuniary compensation; applicable federal and state legislation. Prerequisite: Completion of the College of Business prerequisites.

**MGMT 3328. Internship in Management. 3(3-0)**

An off-campus learning experience allowing the acquisition and application of management skills in an actual work setting. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325, and instructor approval.

**MGMT 3370. Principles of Entrepreneurship. 3(3-0)**

This course will introduce students to the concept of entrepreneurship. Among the major topics in this class, we will discuss what is needed to start a business including local, state and federal regulatory requirements that every entrepreneur needs to know in order to open a business. This class will also include topics regarding capital acquisition, and legal structures of a small business. Other topics include various managerial activities, decision-making and strategy making, corporate social responsibility, ethics, diversity, and human resource management. Prerequisite: Completion of the College of Business prerequisites.

**MGMT 3371. Entrepreneurship: Ideation to Launch. 3(3-0)**

This course will introduce students to the concept of organizational management and the unique challenges of managing the small or startup business. Among the major topics in this class, we will discuss the process of management, the various managerial activities, strategy and decision-making human behavior and motivation theories, ethics, globalization, diversity, teams, crisis management, human resource management, managing growth and expansion, the unique management challenges of family businesses, and succession issues and planning. Prerequisite: Completion of the College of Business prerequisites, MGMT 3370.

**MGMT 4311. Project Management. 3(3-0)**

This course examines the concepts, principles, and applications of project management in the business environment, including the study of project management procedures, project management tools, organizational structure, management of project team members, and the planning, organizing, and control activities necessary for a good project. Prerequisite: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4312. Risk Management. 3(3-0)**

This course is an overview of the basic components of risk as they pertain to technical projects. Topics include risk identification, risk impact analysis, risk response planning, mitigating risk, and risk management techniques. Prerequisite: Completion of the College of Business prerequisites, MGMT 4311.

**MGMT 4314. Global Logistics Management. 3(3-0)**

A total systems approach to managing the logistical activities of the firm in a globalized environment. Analysis of total cost balanced against customer service. Warehousing, transportation, inventory control, packaging, handling and order processing activities are surveyed. Prerequisite: Completion of College of Business prerequisites, MGMT 3320.

**MGMT 4323. Total Quality and Lean Management. 3(3-0)**

The design, evaluation, employment, and integration of total quality and lean management principles and practices within a supply chain environment. Includes customer focus, statistical process control, design for quality, waste reduction, continuous improvement, standardized work, workplace organization, set-up time reduction, lot size reduction, preventive maintenance, management and workforce practices, and pull production systems are emphasized. Prerequisite: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4326. Labor Relations and Collective Bargaining. 3(3-0)**

This course offers students a survey of the historical, legal and social framework for and the process of negotiating a labor contract and handling typical grievance issues. Students will examine key elements to the organizing process, contract negotiations, and contract administration. Cognitive elements emphasized include knowledge, comprehension, application, and analysis. Students will have the opportunity to develop skills important to the performance of managing labor relations activities. Prerequisite: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4327. Organization Theory and Human Behavior. 3(3-0)**

Various organizational structure models and supporting theory, organizations as complex systems, organizational behavior, individual and group dynamics in the business environment, organization development and change. Prerequisites: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4330. Global Purchasing and Supply Management. 3(3-0)**

Study of the procurement of goods and services resulting from internal needs assessment, and the application of principles of negotiation, purchasing processes, pricing, vendor relationship concepts, contract management, receiving, inventory and materials management, and production control, in a supply chain environment with domestic and international suppliers. Sustainability and globalization topics are integrated. Prerequisite: Completion of the College of Business prerequisites, MGMT 3320.

**MGMT 4331. International Management. 3(3-0)**

Management of the globally competitive firm; topics considered include leadership, organizational structure, cultural differences and similarities and competitive analysis. Prerequisites: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4333. Supply Chain Integration. 3(3-0)**

Supply chain management is the successful cross-functional integration of key business processes from the original suppliers of products, services, and information through the firm to its customers and stakeholders with an emphasis on value-added benefits. Content areas included management of demand determination and purchasing, resources and materials, quality, lean, logistics and distribution, and systems integration processes. This course incorporates information technology exercises to integrate supply chain management processes. Prerequisites: Completion of the College of Business prerequisites, MGMT 3320.

**MGMT 4334. Current Topics in Supply Chain Management. 3(3-0)**

This course will go more in-depth in special topics in Supply Chain Management. Topics covered in this class will include: globalization of supply chains, trade policy in supply chains, supply chain sustainability, supplier development in emerging economies, supply chain origin of raw materials, and other topics as they emerge. Prerequisite: Completion of the College of Business prerequisites, MGMT 3320.

**MGMT 4341. Compensation and Benefits. 3(3-0)**

This course identifies the key elements for developing a firm's strategic compensation program necessary to attract and retain a valued workforce. Students will study the bases for pay and benefit plans, and the design of compensation systems and benefit programs key to serving the internal workforce and compete in the external marketplace. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4342. Training and Development. 3(3-0)**

This course integrates training theory and application for the high performing organization. Students examine training systems, strategies and practices critical in driving high performing organizations. The training process is mapped and discussed within the overarching framework of designing and planning training activities to meet organizational needs that are both strategic and tactical. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4343. Performance Management. 3(3-0)**

This course emphasizes measuring and managing performance for the high performing enterprise. The key competitive advantage in today's globalized world lies, not in technology and products, but in its people and their collective performance. Students will learn the process for operational excellence by examining the design and implementation of a results-driven work structure. The course discusses the importance of efficient workflow, control of operational standards, alignment with key performance metrics, rewarding results, and engaging workforce behavior to achieve high-performance. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4344. Organizational Leadership. 3(3-0)**

This foundational course will help students develop an understanding of leadership theory while acquiring the necessary skills and insights to become effective leaders. The course blends theory and application, and integrates contemporary ideas and practices with established scholarly research. Students will examine the roles of self-leadership, and the binding relationships between leader and followers. The course considers how power, courage, vision, and morality influence leadership. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4345. International Human Resources Management. 3(3-0)**

This course captures the compelling realities facing HRM professionals practicing in multinational enterprises today. Students will learn the international business context in which IHRM operates by investigating topic areas as new strategic forms as they impact HRM capabilities and processes, effectiveness in repatriation, transportation practices and strategic uses of global careers, ROI of expatriate assignments, the complexities of standardizing and customizing HRM practices and activities across local environments. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4346. Seminar in Human Resources. 3(3-0)**

Advanced course permitting students to engage in independent reading and research on contemporary issues in Human Resources. Course offers students an opportunity to research recent developments to examine underlying forces contributing to the current dialogue, legislative debate, and legal precedence in developing policy affecting the workplace. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4347. HRIS & Data Analytics. 3(3-0)**

Among the most significant changes in the field of human resources management in the past decade has been the growing use of information technology. This course surveys the integration of Human Resource Management and Information Systems technology. The course reviews the evolution of Human Resource Information Systems (HRIS), examines the HRM

role in information technology management, and explores basic HR data analytics. Students will assess information system's needs, identify HRIS applications, and plan for system implementation. Prerequisite: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4348. Talent Management. 3(3-0)**

This course prepares students to take a strategic and modern approach to the identification, attraction, selection, deployment, and retention of talent. The course demonstrates how organizations can develop a staffing strategy, leverages staffing technology, and evaluates and improves staffing systems. Prerequisites: Completion of the College of Business prerequisites, MGMT 3325.

**MGMT 4360. Leadership in Non-Profit Organizations. 3(3-0)**

A comprehensive study of leadership in nonprofit organizations including the theories and concepts used in managing organizations, board governance, and leading personnel and change in nonprofit organizations. Prerequisite: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4361. Negotiation in a Business Environment. 3(3-0)**

Students will learn the role and process of dispute resolution in group decision making. Students will gain practical experience through the use of simulations, cases, and discussions. Topics include group decision making, negotiations in a business environment, and various methods of conflict resolution. Prerequisite: Completion of the College of Business prerequisites, MGMT 3311.

**MGMT 4370. Decision Making and Business Policy. 3(3-0)**

To provide a capstone course for the graduating senior majoring in business that will allow him or her to practically apply the concepts and theories learned in the undergraduate program. The student will do this through integrating those principles with the ones that serve as the theoretical framework for the field of strategic management. The end result of this process will be a student who is able to analyze complex business problems and to effectively make decisions that affect the entire organization. Prerequisite: Completed in the final semester of the B.B.A. program, Completion of the College of Business prerequisites.

**MGMT 4371. Entrepreneurship: The Business Plan. 3(3-0)**

This course will provide students with an opportunity to apply business knowledge to develop a start-up business plan. Prerequisites: Senior level standing, MGMT 3370, and completion of the College of Business prerequisites.

**MGMT 4372. Entrepreneurship: Creativity and Innovation. 3(3-0)**

The course will focus on the importance of creativity and innovation in business organizations. Topics include methods to generate creative ideas, applying innovation process(es) models to turn ideas into commercially viable products/services, legal and financial issues to address means to help assure business success. Course objectives are met through classroom discussion and applied exercises. Prerequisite MGMT 3311 or MGMT 3370, Completion of the College of Business prerequisites or departmental approval.

**MGMT 4373. Entrepreneurship: Experiential Start-Up 3(3-0)**

These learning experiences will include formal participation in an organized (TAMUSA or other) partnership in an academic area associated with Entrepreneurship and Innovation. Students will have the opportunity to interact in the local or global business community on a variety of levels. Students will complete all course requirements specified by both the TAMUSA and partner organization syllabi, such as pre-travel or pre-event background activities, pre-event orientation meeting(s) and completed research project(s). This course meets the College of Business Experiential Learning requirement. Prerequisite: Completion of the College of Business prerequisites, Department permission/approval required, MGMT 3370 or MGMT 4331.

**MGMT 4379. Entrepreneurship: Special Topics in Entrepreneurship. 3(3-0)**

This course will go more in-depth in special topics in Entrepreneurship. Topics covered in this class will include: capital acquisition, legal structures of a small business, negotiation skills, accessing Governmental Resources for entrepreneurial and small business success, Government Contracting Issues, "Family Business" issues, Human Capital and Human Resource Issues for new and small businesses, and Partnership Issues in Business. Prerequisite: Completion of the College of Business prerequisites.

**MGMT 4381. Optimization Method for Business Analytics. 3(3-0)**

Analysis of management science approach to business decisions. Learn how to use optimization methodologies and modeling approaches to look for the best and most effective solution (or solutions if there are more than one). Emphasis on problem formulation, solution generation, and sensitivity analysis. Various specific tools and techniques will be covered in this class. Prerequisite: Completion of the College of Business prerequisites, MATH 1325, MGMT 3320, BUAD 3360. The assumption is that your algebra skill level already corresponds to that of a typical college algebra course.

**MGMT 4392. Special Problems in Management. 3(3-0)**

Special studies in management. May be repeated once for credit. Prerequisite: Completion of the College of Business prerequisites.

**MARKETING (MKTG)**

**MKTG 3128. Internship in Marketing. 1(1-0)**

An off-campus learning experience allowing the acquisition and application of marketing skills in an actual work setting. Prerequisite: Completion of the College of Business prerequisites.

**MKTG 3228. Internship in Marketing. 2(2-0)**

An off-campus learning experience allowing the acquisition and application of marketing skills in an actual work setting. Prerequisite: Completion of the College of Business prerequisites.

**MKTG 3311. Principles of Marketing. 3(3-0)**

Examination of marketing goods and services by organizations and individuals in a free-enterprise economy. Topics covered include product, channels, price, promotion, consumer behavior, the legal and other uncontrollable environments and research, international marketing, strategy and control. Prerequisites: ENGL 1301 and ENGL 1302.

**MKTG 3328. Internship in Marketing. 3(3-0)**

An off-campus learning experience allowing the acquisition and application of marketing skills in an actual work setting. Prerequisite: Completion of the College of Business prerequisites.

**MKTG 3340. Consumer Behavior. 3(3-0)**

Analysis and evaluation of the consumer's position in the marketing structure including patterns of consumer behavior and the psychological, social and cultural forces that underlie such patterns. Prerequisites: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 3341. Marketing Research. 3(3-0)**

Marketing research methods as applied to management problems involving marketing strategy and policy formulation, and economic-industry-firm-sales forecasts. Prerequisites: Completion of the College of Business prerequisites, MKTG 3311, BUAD 3360.

**MKTG 3342. Integrated Marketing Communication. 3(3-0)**

Demand-stimulation processes of all elements of the promotional mix at all levels of the channel of distribution. Analysis of theoretical models and pragmatic applications of promotion in an organization. Prerequisite: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 3343. Digital Marketing. 3(3-0)**

This class will give students the theoretical understanding of the dynamic internet marketplace necessary to adopt to its many changes, while also equipping them with the skills they'll need to perform vital daily marketing functions. By the end of the course, students will be able to walk into any company with an online presence and improve their use of the internet. Computer literacy expected. Prerequisite: MKTG 3311. Completion of College of Business prerequisites.

**MKTG 3345. Visual Media Marketing. 3(3-0)**

This course offers a practical application of graphic design concepts for branding and advertising, with a special emphasis on digital marketing. Students will learn to manipulate images and digital photographs in preparation for publication layout and design, create single and multiage marketing communications, and design and publish content for offline and online media. This course provides students with hands-on experience through the use of state-of-the-art design tools in the development of a company's brand identity portfolio. Prerequisite: Completion of the College of Business prerequisites or departmental approval for students pursuing the College of Business certificate, MKTG 3311.

**MKTG 3360. Personal Selling. 3(3-0)**

The personal selling process and the use of a professional, customer-oriented, problem-solving approach in selling situations. The sales job, selection of salespeople, sales training programs, and coordination/control of the sales function. Development of fundamentals of professional selling skills. Prerequisites: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 3361. Brand Management. 3(3-0)**

This course is designed to provide an understanding of how to manage a brand, with a focus on understanding the concepts underlying brands and branding. The main goal of this course is to give students a fundamental understanding of how to build, measure, and manage a brand. Prerequisite: MKTG 3311 and Completion of College of Business prerequisites.

**MKTG 3362. Retail Marketing Management. 3(3-0)**

Analysis and conceptualization of the relationship among channels of distribution members emphasizing the merchandising function of retail store management. Introduce applications of electronic commerce to retailing practice. Prerequisites: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 3363. Social Media Marketing. 3(3-0)**

This course is designed to help students understand how marketing has (and has not) changed due to the rise of social media and changes in various underlying contextual factors, such as dramatically increased speed of information dissemination across consumers and brands. The overarching goal is to obtain a clear perspective on what's really going on in digital/social/mobile marketing so that students can begin to appreciate its true value to consumers, to managers, and to other corporate stakeholders. Prerequisites: MKTG 3311 and Completion of College of Business prerequisites.

**MKTG 3364. Promotional Strategy. 3(3-0)**

Demand-stimulation processes of all elements of the promotional mix at all levels of the channel of distribution. Analysis of theoretical models and pragmatic applications of promotion in an organization. Prerequisite: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 3366. Services Marketing. 3(3-0)**

The primary objective of this course is to prepare students to successfully apply marketing skills in today's increasingly service-oriented economy. The course is designed to help students understand the unique characteristics of services, the

marketing challenges created by these characteristics, and effective ways to address these challenges. Prerequisite: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 3367. Sport Marketing. 3(3-0)**

Sport Marketing presents an overview of the various techniques and strategies used in meeting the wants and needs of consumers in the sport industry as well as understanding how sport can be used to assist in the marketing of other companies and products. Prerequisite: MKTG 3311 Completion of College of Business prerequisites.

**MKTG 4314. Global Logistics Management. 3(3-0)**

A total systems approach to managing the logistical activities of the firm in a globalized environment. Analysis of total cost balanced against customer service. Warehousing, transportation, inventory control, packaging, handling and order processing activities are surveyed. Cross-listed with MGMT 4314 Formerly MKTG 3314. Prerequisite: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 4361. Marketing Management. 3(3-0)**

Capstone Marketing course for majors. Marketing functions in the firm and marketplace from the viewpoint of the marketing manager. Concepts and analytical tools used by marketing managers. Prerequisites: Completion of the College of Business prerequisites, senior standing and MKTG 3311.

**MKTG 4363. International Marketing. 3(3-0)**

Examines marketing in other countries, the marketing implications of cultural and environmental differences, international marketing research and adaptation of product, price, promotion and distribution decisions to international environments. Topics include international trade theory and the multinational firm. Prerequisites: Completion of the College of Business prerequisites, MKTG 3311.

**MKTG 4396. Special Problems in Marketing. 3(3-0)**

Special studies in marketing. May be repeated once for credit. Prerequisite: Completion of the College of Business prerequisites.

**MILITARY SCIENCE (MSCI)**

**MSCI 1001. Introduction to the Army and Critical Thinking Lab. 0(0-2)**

This two hour mandatory laboratory applies and reinforces classroom instruction with outdoor, hands on training on campus. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 1301.

**MSCI 1002. Adaptive Leadership and Professional Competence Lab. 0(0-2)**

This two hour mandatory laboratory applies and reinforces classroom instruction with outdoor, hands on training on campus. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 1302.

**MSCI 1301. Introduction to the Army and Critical Thinking. 3(3-0)**

This course introduces Students to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, time management, goal setting, stress management, and comprehensive fitness relate to leadership, and the Army profession. Corequisite: MSCI 1001. TSI requirement: Reading and Writing.

**MSCI 1302. Adaptive Leadership and Professional Competence. 3(3-0)**

This course introduces Students to the professional challenges and competencies that are needed for effective execution of the profession of arms and Army communication. Through this course, Students will learn how Army ethics and values

shape the army and the specific ways that these ethics are inculcated into Army culture. Prerequisites: MSCI 1301 or completion of any approved military basic training verified by either a DD214 or certification of completion of Basic Training from any military branch, or completion of 4 years of JROTC verified by students' high school transcripts. Corequisite: MSCI 1002.

**MSCI 2001. Leadership and Decision Making Lab. 0(0-2)**

This two hour mandatory laboratory applies and reinforces classroom instruction with outdoor, hands-on training on campus. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 2301.

**MSCI 2002. Army Doctrine and Team Development Lab. 0(0-2)**

This two hour mandatory applies and reinforces classroom instruction with outdoor, hands-on training on campus. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 2302.

**MSCI 2301. Leadership and Decision Making. 3(3-0)**

This is an academically challenging course where Students will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values, and Ethics, and Personal Development, and small unit tactics at the squad level. Students are required to demonstrate writing skills and present information briefing in preparation for becoming a successful future U.S. Army officer. Prerequisites: MSCI 1301 and MSCI 1302 or completion of any approved military basic training verified by either a DD214 or certification of completion of Basic Training from any military branch, or completion of 4 years of JROTC verified by students' high school transcripts. Corequisite: MSCI 2001.

**MSCI 2302. Army Doctrine and Team Development. 3(3-0)**

This course examines the challenges of leading teams in the complex operational environment. This course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. Students develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills. Prerequisites: MSCI 1301, MSCI 1302, and MSCI 2301 or completion of any approved military basic training verified by either a DD214 or certification of completion of Basic Training from any military branch, or completion of 4 years of JROTC verified by students' high school transcripts. Corequisite: MSCI 2002.

**MSCI 3001. Training Management and Warfighting Functions Lab. 0(0-2)**

This two hour mandatory applies and reinforces classroom instruction with outdoor, hands-on training on campus. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 3301.

**MSCI 3002. Applied Leadership in Small Unit Operations Lab. 0(0-2)**

This two hour mandatory applies and reinforces classroom instruction with outdoor, hands-on training on campus. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 3302.

**MSCI 3301. Training Management and Warfighting Functions. 3(3-0)**

This course introduces students to Military Mission Planning, the Army Operations Order Process, Military Land Navigation, the Tenants of Mission Command and the tactical skills and knowledge needed to lead at the squad and platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating, and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Leader Training Exercise (LTX). Students will receive feedback on their abilities as a leader and how to improve those leader skills that they can be further developed into a successful U.S. Army officer. Prerequisite: Completion of contracting with the UTSA Army ROTC program. Corequisite: MSCI 3001.

**MSCI 3302. Applied Leadership in Small Unit Operations. 3(3-0)**

This course continues to build on the skills and fundamentals taught and discussed during MSC 3001. Students will continue to build on the skills and fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating, and leading a platoon in the execution of a mission during classroom PE, Leadership Lab, or during a Leader Training Exercise (LTX). Successful completion of this course prepares students for the ROTC Cadet Leader Course (CLC), which they will attend in the summer at Fort Knox, KY. Prerequisite: MSCI 3301, and completion of contracting with the UTSA Army ROTC program. Corequisite: MSCI 3002.

**MSCI 3330. American Military History. 3(3-0)**

The purpose of this course is to survey and analyze the American military experience from its colonial origins to today's "war on terrorism." As a class, students will reach this goal primarily by means of reading, writing, simulating, and analyzing, and discussing American Military History and by visiting museums and preserved battlefields.

**MSCI 4001. The Army Officer Lab. 0(0-2)**

This two hour mandatory applies and reinforces classroom instruction with outdoor, hands-on training on campus. Under the supervision of the Professor of Military Science, Senior Cadets are trained to forecast plan resource and execute training events and venues for the entire ROTC Battalion. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI 4301.

**MSCI 4002. Company Grade Leadership Lab. 0(0-2)**

This two hour mandatory applies and reinforces classroom instruction with outdoor, hands-on training on campus. Under the supervision of the Professor of Military Science, Senior Cadets are trained to forecast plan resource and execute training events and venues for the entire ROTC Battalion. In addition, it provides an opportunity to experience unique training opportunities unavailable to the general public at nearby Camp Bullis, and other local military installations. Corequisite: MSCI MSCI 4302.

**MSCI 4003. Practical Leadership Lab. 0(0-2)**

This course consists of performance-oriented instruction and preparation for commissioning. Under the guidance of the professor of Military Science, this course allows for additional development of students' ability to plan, coordinate, and direct the efforts of Army small-unit organizations in the execution of tactical missions; planning and execution of leadership laboratories. Prerequisite: MSCI 4302 and MSCI 4002. Consent of instructor. Co-requisite: MSCI 4303.

**MSCI 4301. Seminar in Leadership and Management and Lab. 3(3-0)**

This is an advanced course that places primary emphasis on Officership with our Senior Students. The overall objective of this course is to focus on the leadership development, critical thinking and final preparation for commissioning as U.S. Army 2nd Lieutenant. Prerequisite: MSCI 3301, MSCI 3302, and completion of contracting with the UTSA Army ROTC program. Corequisite: MSCI 4001.

**MSCI 4302. Seminar in Leadership and Management and Lab. 3(3-0)**

This course places significant emphasis on preparing Cadets for their Officer Basic Course, and their first unit of assignment. Cadets explore military professional ethics and ethical decision making process and how it applies to a complex operational environment. Cadets gain practical experience in cadet battalion leadership roles, demonstrate personnel skills in operations and communications develop and evaluate junior students and gain an understanding of the contemporary military operating environment. Prerequisite: MSCI 3301, MSCI 3302, MSCI 4301, and completion of contracting with the UTSA Army ROTC program. Corequisite: MSCI 4002.

**MSCI 4303. Practical Leadership. 3(3-0)**

This course consists of performance-oriented instruction and preparation for commissioning. Under the guidance of the PMS this course allows for additional development of students' ability to plan, coordinate, and direct the efforts of Army small unit organizations in the execution of tactical missions; planning and execution of leadership laboratories.

Prerequisite: MSCI 4302, and consent of PMS. Corequisite: MSCI 1001.

**MILITARY SCIENCE-PHYSICAL FITNESS (MSPF)****MSPF 3131. Military Physical Fitness. 1(1-0)**

This course is designed to provide ROTC students with an introduction to physical fitness training in preparation for a military career, improve quality of life, as well as developing one's physical and mental health.

**MUSIC (MUSI)****MUSI 1303. Fundamentals of Music. 3(3-0)**

Introduction to the basic elements of music theory for non-music majors: scales, intervals, keys, triads, elementary ear training, keyboard harmony, notation, meter, and rhythm. Prerequisites: TSI Reading/Writing.

**MUSI 1306. Music Appreciation. 3(3-0)**

A general survey of music literature designed for the non-music major. Representative composers and their works are studied through recordings, lectures, reports, and live performances. The course focuses on the appreciation and analysis of musical compositions and performances, synthesis and interpretation of artistic expression and critical, creative and innovative communication about works of art. This course meets the standards for the Creative Arts category of courses under the core curriculum. Prerequisite: TSI Reading and Writing.

**PHILOSOPHY (PHIL)****PHIL 1301. Introduction to Philosophy. 3(3-0)**

This course provides an introduction to the examination of major philosophical issues such as the existence of God, freedom and determinism, the relation between the mind and the body, moral rights and obligations, and the nature and limits of human knowledge. The focus will be these important issues and what classical and contemporary philosophers have said about them. This course meets the standards for the "Language, Philosophy, and Culture" category of courses under the core curriculum. Prerequisite: TSI Reading/Writing.

**PHIL 2306. Introduction to Ethics. 3(3-0)**

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value. Prerequisites: TSI Reading/Writing.

**PHYSICS (PHYS)****PHYS 1101. General Physics Laboratory I. 1(0-1)**

Laboratory experimentation reinforces concepts in mechanics. The course emphasizes scientific communication and collaboration as well as measurement methods, uncertainty in measurement, and basic error analysis. Co-requisite: PHYS 1301. Prerequisite: TSI Reading/Writing/Math.

**PHYS 1102. General Physics Laboratory II. 1(0-1)**

Laboratory experimentation reinforces concepts in oscillation and waves, electricity, and magnetism. The course emphasizes scientific communication and collaboration as well as measurement methods, uncertainty in measurement, and basic error analysis. Co-requisite: PHYS 1302. Prerequisite: TSI Reading/Writing/Math.

**PHYS 1301. General Physics I. 3(3-0)**

This course provides an introduction to Newtonian physics. Topics include Aristotelian physics and its overthrow, Newton's laws of motion and gravitation, and motion of particles, rigid bodies and fluids. The idea of the universe as a law-governed system will be developed. Trigonometry required for the course will be developed prior to its physics applications. Algebra and trigonometry based physics problem solving will be required. Home based experiments using commonly available items will be assigned. This course meets the standards for the "Life and Physical Sciences" category of courses under the core curriculum. Prerequisites: MATH 131MS or MATH 1324 or MATH 2312 or MATH 2313.

**PHYS 1302. General Physics II. 3(3-0)**

Introduction to thermal physics, wave motion, electricity, and magnetism. The classical theory of fields will be used to study electric and magnetic phenomena, including light. This is the culmination of classical physics which underlies much of technology. Algebra and trigonometry based physics problem solving will be required. Home based experiments using commonly available items will be assigned. This course meets the standards for the "Life and Physical Sciences" category of courses under the core curriculum. Prerequisites: PHYS 1301 and one of the following: MATH 1314 or MATH 1324 or MATH 2312 or MATH 2313.

**PHYS 2125. University Physics Laboratory I. 1(0-1)**

Laboratory course linked to PHYS 2325. Laboratory experimentation reinforces concepts in mechanics. The course emphasizes scientific communication and collaboration as well as measurement methods, uncertainty in measurement, and error analysis using calculus. Prerequisite: TSI Reading/Writing/Math. Co-requisite: PHYS 2325.

**PHYS 2126. University Physics Laboratory II. 1(1-0)**

Laboratory course linked to PHYS 2326. Laboratory experimentation reinforces concepts in oscillation and waves, electricity and magnetism. The course emphasizes scientific communication and collaboration as well as measurement methods, uncertainty in measurement, and error analysis using calculus. Prerequisite: TSI Reading/Writing/Math. Co-requisite: PHYS 2326.

**PHYS 2325. University Physics I. 3(3-0)**

A calculus based introduction to Newtonian physics. Topics include Aristotelian physics and its overthrow, Newton's laws of motion and gravitation, and motion of particles, rigid bodies and fluids. Fluency in algebra and trigonometry is expected and differential and integral calculus will be used as necessary. Home based experiments using commonly available items will be assigned. This course meets the standards for the "Life and Physical Sciences" category of courses under the core curriculum. Prerequisites: MATH 2313. Corequisite: MATH 2314.

**PHYS 2326. University Physics II. 3(3-0)**

Calculus based introduction to thermal physics, oscillatory and wave phenomena, electricity and magnetism. The classical theory of fields will be used to study electric and magnetic phenomena, including light. This is the culmination of classical physics which underlies much of technology. Fluency in algebra and trigonometry is expected and differential and integral calculus will be used as necessary. Home based experiments using commonly available items will be assigned. This course meets the standards for the "Life and Physical Sciences" category of courses under the core curriculum. Prerequisites: PHYS 2325 and MATH 2314

**PHYS 2390. Selected Topics- Physics. 3(3-0)**

A course in physics in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once (maximum 6 hours). Instructor approval required.

**PHYS 4390. Advanced Topics- Physics. 3(3-0)**

A course in physics in areas of specialization of the faculty, with emphasis on current developments. Specific topics will be changed from semester to semester, so a student may take the course for credit more than once (maximum 6 hours). Instructor approval required. Instructor approval required.

**POLITICAL SCIENCE (POLS)****POLS 3302. Research and Analysis in Political Science. 3(3-0)**

The practice of political science. The construction of research designs; major research tools; methods of political analysis; political science writing. Prerequisite: GOVT 2305 and GOVT 2306.

**POLS 3311. The Congress. 3(3-0)**

An examination of the Congress, from formal organization, member recruitment, and theories of representation, to Congressional reform, policy-making, and interbranch relationships. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 3312. The Executive. 3(3-0)**

This course will cover the presidency, its constitutional basis, structure, powers, functions, and responsibilities. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 3313. The Judiciary. 3(3-0)**

This course will focus on the judicial system of the United States in terms of structure, function, and process. Both the federal and state levels of the judiciary will be studied, both in terms of how they operate individually and how they interact. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 3315. Water Laws, Rules and Policy. 3(3-0)**

This course provides an introduction to local, state, and federal rules and regulations relevant to water as a resource. Laws, rules, and policies governing water as a resource will be reviewed and evaluated, including the Clean Water Act, Endangered Species Act, and National Environmental Policy Act. Students will examine federal, state and local approaches to water allocation, pollution control, and resource management on private and public lands, and for diverse water sources. Students will explore the challenges of water management, and discuss alternative strategies for achieving sustainability, including the roles of science, sanctions, economic incentives, opinion, and other influences.

**POLS 3321. Political Theory: Ancient and Medieval. 3(3-0)**

The theories of the major thinkers of the periods and of their development. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 3322. Political Theory: Early Modern and Modern. 3(3-0)**

Theories of the major thinkers and the related intellectual and political movements. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 3341. International Relations. 3(3-0)**

The underlying principles governing political relations among sovereign states and the application of these principles to contemporary international problems. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 3351. Comparative Politics. 3(3-0)**

The structures, functions and processes of selected political systems. May be repeated once for credit. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4302. Advanced Research Methods: Regression and Analysis. 3(3-0)**

In this course students will learn model building, ordinary least squares (OLS) regression, and prediction analysis using a statistical analysis program. Course is suitable for those interested in performing advanced data analysis. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4311. Voting Behavior and Public Opinion. 3(3-0)**

The relation of public opinion and voting behavior to democratic government; techniques employed in analyzing political attitudes and voting behavior. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4312. Interest Groups and Political Parties. 3(3-0)**

Formation, structure and functions of interest groups and political parties within the political system. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4314. State and Local Government and Administration. 3(3-0)**

Structure and functions of governmental institutions; administrative practices of state and local governments. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4315. Urban Politics. 3(3-0)**

A study of urban political processes and major public problems confronting urban areas. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4316. American Political Behavior. 3(3-0)**

An introduction to core theories and controversies about American mass political behavior; topics include electoral and non-electoral political participation, political socialization, and party identification. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4317. Nuclear Proliferation and U.S. Non-Proliferation Policies. 3(3-0)**

Causes of and U.S. responses to, nuclear proliferation in Third World regions, focusing on "problem countries." Topics include the non-proliferation regime, the "nuclear repentants," nuclear arms control and the threat of nuclear terrorism. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4320. Terrorism and Political Violence. 3(3-0)**

Covers the relevant analytical frameworks, theories, and cases concerning terrorism, insurgency, and related forms of political violence. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4325. Technology and Politics. 3(3-0)**

A study of technology and society from the perspective of social values, ethics, sociology, social environment, politics and economics. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4331. Constitutional Law. 3(3-0)**

This course focuses on institutional power and constraints. A survey of American constitutional law, using leading cases, both historic and contemporary, of the Supreme Court of the United States. Establishment of the federal political system for which the Constitution provided and the judicial allocations of political and economic power within that system. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4332. Constitutional Law. 3(3-0)**

This course focuses on civil rights and civil liberties. A survey of American constitutional law using leading cases, both historic and contemporary, of the Supreme Court of the United States. Matters of rights and liberties, their recognition and definition, policies of rights developed by the Supreme Court of the United States. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4333. American Judicial Process. 3(3-0)**

The federal judicial system in terms of structure, function and process with stress on court interaction at both intracourt and intersystem levels. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4342. International Organization. 3(3-0)**

Basic features, functions and problems of international organizations through the League of Nations, the United Nations and its specialized agencies and other important regional organizations in the context of the world situation. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4343. International Law. 3(3-0)**

An introduction to the study of international law. This course examines the definition, object and sources of international law as well as its relationship to domestic law and to the study of international relations. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4354. Government and Politics of Latin America. 3(3-0)**

The structures, functions and processes of the political systems of the nations of Central America, the Caribbean and South America. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4355. Government and Politics of Mexico. 3(3-0)**

The structures, functions and processes of the political system of Mexico. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4361. Public Administration. 3(3-0)**

The place of public administration in government; the relations of the bureaucracy to other government institutions and the public. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4363. Policy and Policy Making in U.S. 3(3-0)**

Public policy and its formation through the interaction of political groups and governmental institutions in selected areas of public policy; relevant comparisons to other national systems. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4364. Women and Politics. 3(3-0)**

Description, analysis and assessment of women's place in a democracy through a focus on women's capacity to relate to and use political power. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4370. Special Studies in Political Science. 3(3-0)**

An intensive examination of special topics of study in political science. Course may be repeated once for credit when the topic of study changes. Prerequisites: GOVT 2305 and GOVT 2306.

**POLS 4371. Political Science Internship. 3(3-0)**

This course provides students the opportunity to integrate traditional learning exercises with practical experience in one of the following areas: a political campaign, an elected official's office, a state or city bureaucracy/agency, or a professional environment. Prerequisites: GOVT 2305 and GOVT 2306 and consent of the instructor.

**PSYCHOLOGY (PSYC)**

**PSYC 2202. The Psychology Major. 2(2-0)**

Students will be introduced to the broad field of Psychology. Subfields will be explored. Students will explore job opportunities and opportunities for advanced degrees. Topics may also include scientific method, research, reading scientific articles, ethics, critical thinking, TAMU-SA degree plan, and goal setting. Prerequisite: PSYC 2301.

**PSYC 2301. General Psychology. 3(3-0)**

A survey of general psychology: theories, methods, and basic principles and how these apply to human behavior. Topics include research, the brain, social psychology, learning, memory, and psychological disorders. The course emphasizes the understanding that psychological concepts are derived from the scientific method. Prerequisites: TSI Reading/Writing.

**PSYC 2314. Lifespan Growth and Development. 3(3-0)**

An introduction to human development through the lifespan. Physiological, Cognitive, and socioemotional aspects of development from birth through late adulthood are covered, and will focus on the developmental issues required by health professions. This class may not be taken by psychology majors. Prerequisites: PSYC 2301

**PSYC 2315. Psychology of Adjustment. 3(3-0)**

Adjustment problems of normal people. Principles of healthy psychological functioning in relation to family, peers, career, community, and culture. Prerequisite: PSYC 2301.

**PSYC 2325. Selected Topics in Psychology. 3(3-0)**

Literature and research in areas of psychology not otherwise treated in depth in available courses. May be repeated once as topics change. Prerequisite: PSYC 2301. TSI Reading and Writing.

**PSYC 2385. Writing in Psychology. 3(3-0)**

This course teaches fundamentals of scientific writing in psychology, including literature reviews, research reports, and other forms of written communication in the field. All work products will adhere to the American Psychological Association (APA) format and style. Students will gain extensive experience in writing, revision, and editing. The goal of the course is to promote proficiency of writing and critical thinking skills through analysis of exemplary writing and evaluation of their own and others' writing. Prerequisites: PSYC 2301, PSYC 2202, ENGL 1301, ENGL 2311. Corequisite: PSYC 2388. TSI Reading and Writing.

**PSYC 2388. Psychological Research and Statistics I. 3(3-0)**

An introduction to the methods and analysis of data from psychological studies. Fundamental concepts and techniques of both descriptive and inferential statistics and their application to psychological research. Prerequisite: PSYC 2301 with a minimum grade of C, and MATH 1314. Corequisite: PSYC 2385

**PSYC 3088. Psychological Research and Statistics II Lab. 0(0-0)**

Lab focusing on scientific literacy and practice with data analysis using statistical software, and research design. Corequisite: PSYC 3488.

**PSYC 3304. Psychology of Learning. 3(3-0)**

General principles of learning and memory and an introduction to learning theory. Emphasis on motivation, conditioning and problem-solving. Prerequisite: PSYC 2301.

**PSYC 3305. Social Psychology. 3(3-0)**

Theory and phenomena of social psychology. Includes the nature of social variables and the methods used to study them, and covers topics such as the self, conformity, persuasion, prejudice, relationships, altruism, attitudes, attribution, conflict, and peacemaking. Credit may not be obtained in both PSYC 3305 and SOCI 3301 or SOCI 3311. Prerequisite: PSYC 2301.

**PSYC 3312. Motivation and Emotion. 3(3-0)**

Topics include examination of biological, physiological, learning, psychodynamic, cognitive, and purposive factors in the motivation of human behavior. Includes examination of nature and the roles of emotion in explaining motivational processes. Prerequisite: PSYC 2301 and PSYC 2388.

**PSYC 3315. Health Psychology. 3(3-0)**

Examines and defines the nature of illness and healing through the integration of biophysiological, psychoneuroimmunological, psychological and environmental factors. Examines stress and stress management techniques. Formerly PSYC 2350 Prerequisites: PSYC 2301, PSYC 2388 or BIOL 2411.

**PSYC 3316. Physiological Psychology. 3(3-0)**

Introduction to the physiological substrata of behavior; including basic neuroanatomy, research techniques, basic physiology, sensory processes and central nervous system functions. Prerequisites: PSYC 2301 and PSYC 2388 or BIOL 2411

**PSYC 3321. Intimate Relationships. 3(3-0)**

This course covers issues involved in both intimate and platonic close relationships, with an emphasis on intimate relationships, and includes attraction, love, communication, sexuality, power, and dissolution Current and classic research associated with all aspects of relations will be considered. Prerequisites: PSYC 2301.

**PSYC 3322. Gender Issues. 3(3-0)**

Consideration of physiological and social-learning origins of sex differences and psychological theories of sex- stereotyped and sexual behavior. Topics may include androgyny versus sex-typed behavior, gender dysfunction, origins of sex stereotypes, sexual preferences, and sex differences in reasoning styles, aggression, sexual behavior, personality, and psychopathology. Prerequisite: PSYC 2301.

**PSYC 3324. Cross-Cultural Psychology. 3(3-0)**

An examination of the role of culture in the development and validation of psychological theories. Critical discussion of the application of Western theories to other cultural groups, including ethnic minority subgroups. Topics may include identity formation, cognitive and personality development, social and organizational behavior, intergroup relations, psychological assessment, and mental health. Prerequisite: PSYC 2301.

**PSYC 3327. Lifespan Development. 3(3-0)**

A survey of development from birth through childhood, adolescence, adulthood, old age, and death. Physical, cognitive, socioemotional, and social issues over the lifespan will be examined. Prerequisite: PSYC 2301 and PSYC 2388.

**PSYC 3360. Industrial/Organizational Psychology. 3(3-0)**

Introduces students to psychological assessment. Topics include measures of personality, intelligence, psychological disorders, and neuropsychological functioning and their use in medical, educational, therapeutic, workplace and historical contexts. Former Title: Psychology of Work. Prerequisite: PSYC 2301.

**PSYC 3359. Educational Psychology. 3(3-0)**

This course applies psychological principles to learning both inside and outside of the classroom, with specific attention paid to the influences of biological, developmental, social, and behavioral/cognitive aspects of both students and teachers. Prerequisite: PSYC 2301.

**PSYC 3365. Psychology of Personality. 3(3-0)**

An examination of major personality theories and implications for personality development and change. Topics may also include research, results, and problems specific to personality. Prerequisites: PSYC 2301 and PSYC 2388.

**PSYC 3369. Human Sexuality. 3(3-0)**

An introduction to human sexuality with emphasis on the reproductive systems, gender/sexual identity, behavior and influences of legal, social, and technological development. Prerequisites: PSYC 2301 and PSYC 2388. (Credit may not be obtained in both PSYC 3369 and SOCI 3369.)

**PSYC 3488. Psychological Research and Statistics II. 4(4-0)**

Introduction to basic research methodology (i.e., designing and evaluating behavioral research) and ethical issues in research. Statistical methods will be discussed as they pertain to research design and interpretation. Prerequisite: PSYC 2301 PSYC 2385, minimum Grade of C in PSYC 2388, and MATH 1314. Corequisite: PSYC 3088.

**PSYC 4309. Psychological Assessment. 3(3-0)**

Introduces students to psychological assessment. Topics include measures of personality, intelligence, psychological disorders, and neuropsychological functioning and their use in medical, educational, therapeutic, workplace and historical contexts. Prerequisite: PSYC 2301 and PSYC 3488.

**PSYC 4310. Cognitive Psychology. 3(3-0)**

Examination of current information-processing models of human cognition. Visual & auditory information processing, memory processes, information processing, language, thinking, and problem solving. Prerequisites: PSYC 2301 and PSYC 2388. Prerequisite or corequisite: PSYC 3488.

**PSYC 4314. Psychology of Adolescence. 3(3-0)**

An advanced course that treats the definition of adolescence, research and theory concerning the biological, moral, sex-role, personality and emotional development. Prerequisite: PSYC 2301, PSYC 3327.

**PSYC 4315. Selected Topics in Psychology. 3(3-0)**

Literature and research in areas of psychology not otherwise treated in depth in available courses. May be repeated once as topics change. Prerequisite: PSYC 2301 and instructor permission

**PSYC 4325. Abnormal Psychology. 3(3-0)**

This course will explore the dynamics of psychological health and maladjustment with a focus on the science underlying major mental disorders, known causes or etiologies of those disorders, and current treatment modalities or evidence-based practices (EBPs) in the context of the newly released DSM-5. Prerequisite: PSYC 2301 and PSYC 3488.

**PSYC 4328. Psychology of Perception. 3(3-0)**

Analysis of basic perceptual phenomena and theories of perception. Emphasis on sensation, attention, meaning and structural concepts. Prerequisite: PSYC 2301 and prerequisite or corequisite: PSYC 3488 or BIOL 2411.

**PSYC 4333. History and System of Psychology. 3(3-0)**

Important historical antecedents and contemporary psychological systems. An exit course that integrates diverse material encountered in the discipline. Prerequisite: PSYC 2301 and PSYC 3488.

**PSYC 4335. Introduction Clinical Psychology. 3(3-0)**

This course surveys the field of clinical psychology which is the branch of psychology concerned with the assessment and treatment of mental illness and disorders. Topics include historical figures and theory; ethical, legal and cultural issues; diagnostics and assessment as well as empirically validated treatment and prevention strategies. Prerequisite: PSYC 2301 and PSYC 3488.

**PSYC 4344. Military Psychology. 3(3-0)**

This course covers the history and culture of military psychology, special programs such as neuropsychology, comprehensive soldier fitness, and clinical health psychology, ethical issues such as relationships, burnout, and suicide, and clinical theory involving military families, combat stress, and post deployment adjustment. Prerequisite: PSYC 2301.

**PSYC 4345. Substance Abuse. 3(3-0)**

A general survey of current research on psychological, social, legal and situational factors involved in substance usage and its effect on human behavior and criminal activity. Includes a treatment of therapeutic procedures and facilities. Prerequisite: PSYC 2301 and PSYC 3488.

**PSYC 4051, 4151, 4251, or 4351. Directed Research in Psychology. V: 0-3**

Individual instruction course for advanced and qualified undergraduates to obtain supervised research experience in psychology. Student will assist with a research project by working under the individual guidance of a psychology faculty member. Requirements may entail library research, data collection, data entry, statistical analysis and or assistance in

planning and conducting parts of a research project. A paper on the research experience is required. Consent of instructor required. Variable credit for a total of 6 maximum. Prerequisites: PSYC 2301, PSYC 2388. Prerequisite or corequisite: PSYC 3488.

**PSYC 4352. Forensic Psychology. 3(3-0)**

This course examines the dynamics of human behavior within forensic contexts, including an analysis of the psychology of criminal behavior, as well as current research in the areas of police and investigative psychology (e.g., eyewitness identification, false confessions), psychology in the courts, mental illness in the justice system, and correctional psychology. Prerequisite: PSYC 2301, and PSYC 3488 or CRIM 3380.

**PSYC 4355. Internship in Psychology. 3(3-0)**

Applied experience at an off-campus site where psychological principles are applied. Jointly supervised by on-campus faculty and off-campus representatives at the internship site. Students must have departmental approval before registering. Prerequisite: PSYC 2301, PSYC 3488, and consent of instructor.

**PSYC 4360. Seminar in Advanced Psychology. 3(3-0)**

This advanced seminar course is offered for upper division students and will integrate theory, research and practice in the field of psychology broadly. Subject matter will be determined by faculty interests. Prerequisites: Psychology major/Senior standing, AND consent of instructor.

**PSYC 4370. Psychology and Law. 3(3-0)**

Psychology became a specialized field of study in the 1960's as part of an effort to enhance legal process and justice outcomes. In recent years, concerns about wrongful convictions, false confessions, and use of "junk science" in the courtroom has fueled an interest in psychological and legal aspects of high stakes rulings. Major landmark cases and the social science research which shaped U.S. history in this area will be discussed and debated in this course. Prerequisites: PSYC 2301 and PSYC 3488.

**PSYC 4388. Psychological Research and Statistics III. 3(3-0)**

Advanced instruction in designing, conducting, and analyzing data and research in psychology. Prerequisites: PSYC 2301, PSYC 3488, and PSYC 3088.

**RADIO, TELEVISION AND FILM (RTVF)**

**RTVF 2320. Audience Research and Rating Analysis. 3(3-0)**

Media professionals rely heavily on research to make well-informed decisions. Students learn how audience research studies are designed, conducted, analyzed, and utilized within the media industries. Students also develop an understanding and an appreciation of the business and economic aspects of the media industries, therefore this course is suitable for students of all RTD specializations. Prerequisite: SPCH 1315, COMM 1335, COMM 2300

**RTVF 2321. Survey of Television and Integrated Media Technologies. 3(3-0)**

This is a survey course focusing on historical, technical, and governmental aspects of the broadcast industry and integrated media. Topics such as programming, sales, ratings, and public broadcasting will be introduced. Students will develop critical awareness of the roles played by stakeholders, such as the public, the industry, and the government regulators in an environment of fast-paced social and technological change. Prerequisite: SPCH 1315, COMM 1335, COMM 2300.

**RTVF 2322. Television Aesthetics and Criticism. 3(3-0)**

This course is designed as an introduction to the analysis of television story-telling modes and strategies. Students will be taught the tools and concepts needed to disassemble television narratives as seen in the classical television series, sitcom, drama and contemporary reality television. Emphasis will be placed on developing a taxonomy of television programs

through critical aesthetic theory, genre analysis, auteur studies and production studies. Prerequisite: SPCH 1315, COMM 1335, COMM 2300.

**RTVF 2323. Radio Industry in the Digital Age. 3(3-0)**

The course highlights organizational, technological, and ethical issues facing the radio industry today in our modern digital media world. The study also includes current principles and practices of radio programming, marketing and sales, promotions, radio management for commercial and public radio, and current digital audio platforms such as Internet radio. Prerequisite: SPCH 1315, COMM 1335, COMM 2300.

**RTVF 2324. Introduction to Digital Media. 3(3-0)**

An introduction to digital editing and digital media theory, creation, and management. Studies include fundamental non-linear editing techniques, repurposing and manipulating aural and visual materials, digital compression and practical online distribution. Prerequisite: SPCH 1315; COMM 1335.

**RTVF 3301. Fundamentals of Radio Production. 3(2-3)**

Theories and practices of basic radio production. Course focuses on basic theories of audio and attributes of sound, audio board operations (both broadcast and production), radio production formats, microphones, analog and digital recording and playback equipment, and other broadcast studio standards. Students are required to be available for production and laboratory time beyond scheduled class time. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 3303. Multi-Camera TV Production. 3(2-3)**

The objective of this class is to provide an overview of studio based television techniques, along with some live remote techniques. Students will learn the basic principles of multiple production and technical positions that are used for a program produced for live and live-to tape multi-camera production. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 3305. Radio Reporting and Production. 3(2-3)**

This course focuses on the theories and practices of radio journalism and will introduce students to the basic skills of reporting and producing radio news. A wide variety of projects are intended to develop a student's ability to produce, conceive and write radio newscasts, news wraps, and other radio news pieces of various lengths, including live spot reports and breaking news stories. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 3307. Video Storytelling. 3(0-3)**

This class provides students with the theoretical and technical principles to produce non-fiction content for television and online video platforms. Throughout the course, students conceive and produce different types of digital video content for Jaguar Student Media. Prerequisite: SPCH 1315, COMM 1335, COMM 2300.

**RTVF 3309. Acting for the Camera. 3(3-0)**

This course focuses on the processes and techniques used in preparing and acting for the camera. Individual and group scene study and single- and multi-camera production techniques are combined with critical text analyses for the student interested in developing a comfort and familiarity with acting for film, television, and the web. For students planning to work as actors, this course provides insights into working with directors and within a "camera" environment. For students planning to work behind the camera, this course provides useful insights for working with actors. Substantive written critical evaluations are required. Prerequisite: SPCH 1315, COMM 1335.

**RTVF 3311. Voice Performance for the Radio and Digital Audio. 3(3-0)**

This course focuses on theories and practices of multiple radio announcing formats. Course includes analyzing, scripting and performing the following: dramatic productions, various DJ formats, news, commercial, and noncommercial spot reads. Content includes audio applications ranging from traditional AM and FM radio to current digital platforms such as Internet radio, radio websites and podcasts. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 3313. Principles of Digital Editing. 3(3-0)**

A post-production course introducing television and film students to the theories and concepts of digital nonlinear editing using Avid and/or other digital editing systems. Through screenings, lectures, discussions and demonstrations, students learn basic editing concepts, styles, and methods of accomplishing various editing tasks. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 3315. Television Writing. 3(3-0)**

This course is designed for students who are beginning their study of a wide range of media forms and have an interest in understanding the art and craft of writing for television. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 3317. Television Sports Reporting and Production. 3(3-0)**

This course explores the foundations of electronic sports reporting, including legal and ethical considerations. Emphasis on responsible reporting practices while on deadline and enterprise reporting. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 4301. TV News. 3(2-3).**

This course provides technical preparation for intermediate and advanced television and online production work. Students will be coached through the process of producing a weekly television news program and its contents. Prerequisite: COMJ 4335 or RTVF 3307.

**RTVF 4303. Television Production Nonfiction I. 3(2-3)**

This class will provide an introduction to producing documentaries and a brief history of documentaries. The course will also teach students how to analyze the different styles of documentaries. Students will be required to develop a Documentary Proposal. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309.

**RTVF 4304. Television Production Nonfiction II. 3(2-3)**

Studies include script-to-screen production techniques in studio and location environments. Students write and produce original content within a wide range of television genres. The course combines professional production practices along with a digital post-production curriculum. Students are required to be available for production work beyond scheduled class time. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309, RTVF 4303.

**RTVF 4305. Television Directing. 3(2-3)**

This course is an advanced practicum dealing with creative production in aesthetic and technical phases. As the Director you will be expected to foster creativity and participation among your crew. Good leadership is the key to this position. Students are required to be available beyond scheduled class time. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309, RTVF 3303.

**RTVF 4307. Advanced Digital Audio Production. 3(2-3)**

Students will further develop and apply the recording skills and knowledge introduced in Fundamentals of Radio Production. More advanced techniques and methods will be studied and practiced, including use of signal processing, routing, mixing and mastering. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309, RTVF 4301.

**RTVF 4309. Minorities in the Media. 3(3-0)**

This course uses documentaries and films, readings and discussions, research assignments, and group projects to increase understanding of racial and ethnic minorities and media in U.S society. Specifically, this course will increase understanding of the historical context of racial and ethnic minorities in the U.S.; increase knowledge about media and journalism in society; improve skills for evaluating media representation and coverage of racial and ethnic minorities; develop knowledge about journalism and communication theories and their application to racial and ethnic minorities and the media; improve research proficiency. Prerequisite: SPCH 1315, COMM 1335.

**RTVF 4311. Radio Magazine Production. 3(2-3)**

Through the application and theories of audio production and contemporary radio programming, students conceptualize and produce a broad array of magazine programs reflecting the various formats of today's diverse radio market. Combining hands-on practical exercises, in-field production work, and critical listening projects, students gain competency in the many areas related to the production of short- and long-form radio magazines. Prerequisite: SPCH 1315, COMM 1335, COMM 2300, COMM 2309, RTVF 3311.

**SOCIOLOGY (SOCI)****SOCI 1301. Principles of Sociology. 3(3-0)**

Introductory exploration of the scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. This course meets the standards for the "Social and Behavioral Science" category of courses under the core curriculum. Required for all sociology majors, minors and BAAS degrees with a concentration in sociology. Prerequisites: TSI Reading/Writing.

**SOCI 1306. Social Problems. 3(3-0)**

Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance, globalization, or family problems. This course meets the standards for the "Social and Behavioral Sciences" category of courses under the core curriculum. Required for all sociology majors, minors and for BAAS degrees with a concentration in sociology. Prerequisites: TSI Reading/Writing.

**SOCI 2330. The Craft of Sociology. 3(3-0)**

This course prepares students for academic success as sociologists. The focus of the course is on sociological approaches to researching, reading, thinking, and writing. This course addresses key concepts in the discipline such as social structure, agency, application of the sociological imagination, and social constructionism. Required for all sociology majors, minors, and BAAS degrees with a concentration in sociology. Prerequisites: ENGL and either SOCI 1301 or 1306.

**SOCI 2356. Gender and Society. 3(3-0)**

This course offers an investigation of the effects of social structure and institutions on gender role formation and maintenance; how gender roles have changed and the effects of those changes; and the continuing power of gender roles. Prerequisites: SOCI 1301 or ENGL 1302. Credit may not be obtained in both SOCI 2356 and SOCI 3363.

**SOCI 2361. Introduction to Mexican American, Latinx and Borderlands Studies. 3(3-0)**

A survey of the multidimensional and interdependent nature of the United States-Mexico regional interaction and development. A focus on southwest borderlands dynamics which impact upon culture, social institutions, ecological and demographic characteristics. TSI Restrictions: Reading and Writing.

**SOCI 3302. Social Deviance. 3(3-0)**

Survey of the sociological and psychological aspects of deviant behavior. Nature of deviance, types of deviant behavior, causal theories and social policy implications. (Credit may not be obtained in both SOCI 3302 and CRIM 3302.) Prerequisites: SOCI 1301 or ENGL 1302.

**SOCI 3310. Sociological Theory. 3(3-0)**

In this course students will be introduced to the uses and components of sociological theory, key sociological concepts and paradigms, and seminal classical and contemporary sociological writings and theories. Required for all sociology majors and for BAAS degree with sociology concentration. Prerequisite: SOCI 1301, SOCI 1306, SOCI 2330. Credit may not be obtained in both SOCI 3310 and SOCI 4383.

**SOCI 3311. Social Psychology. 3(3-0)**

Students will use a sociological lens to explore the relationship between society and the individual; the effect of other people on individual behavior; and the theories and seminal research of social psychology. Credit may not be obtained in both SOCI 3311 and SOCI 3301. Prerequisites: SOCI 1301 or ENGL 1302.

**SOCI 3320. Research Methods in Sociology. 3(3-0)**

The foundational concepts, assumptions, and approaches in qualitative and quantitative research; the scientific method; and research ethics. Students will apply knowledge gained in this class through application to a hands-on, semester-long research project. Required for all sociology majors and for BAAS with a sociology concentration. Prerequisite: SOCI 3310. Credit may not be obtained in both SOCI 3320 and SOCI 4382.

**SOCI 3322. Juvenile Delinquency. 3(3-0)**

Incidence, types, causation, patterns, processes, treatment agencies and research as related to juvenile delinquency. Selected practical experiences such as trips to juvenile institutions. (Credit may not be obtained in both SOCI 3322 and CRIM 3322.) Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 3330. Statistics for Sociology. 3(3-0)**

This course introduces students to descriptive and basic inferential techniques and tests using major analysis software. Students will apply knowledge gained in this class through application to a hands-on, semester-long research project. Required for all sociology majors and for BAAS degrees with a sociology concentration. Prerequisites: SOCI 3310 and any one of the following: MATH 1314, MATH 1324, MATH 1332 or MATH 1342. Credit may not be obtained in both SOCI 3330 and SOCI 3381.

**SOCI 3340. Environmental Sociology. 3(3-0)**

This class explores the social dimensions of environmental problems including competing perspectives on them and analyses of their causes and impacts. Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 3350. Myths and Realities of Marriage and Family. 3(3-0)**

In this course students will explore the location and role of family in social structure, the functions of marriage and family, and the ways in which this critical social institution has adapted to and reflects larger social changes. Prerequisites: SOCI 1301 or ENGL 1302. Credit may not be obtained in both SOCI 3350 and SOCI 4307.

**SOCI 3360. Inequality and Social Stratification. 3(3-0)**

In this course students will explore the causes of, explanations for and consequences of inequality; how inequality is perpetuated or modified; class consciousness; and major axes of stratification. Prerequisites: SOCI 1301 or ENGL 1302. Credit may not be obtained in both SOCI 3360 and SOCI 4312.

**SOCI 3361. Mexican Americans: Identity, Movements, and Social Justice. 3(3-0)**

This course focuses on Mexican Americans in the United States and the intersections between identity and social movements that have occurred throughout history in their push for civil, political, and human rights within the realms of citizenship, immigration, economic exploitation, environmental justice, and women's rights. Prerequisite: ENGL 1302 or SOCI 1301.

**SOCI 3362. Immigration, National Politics, and Nationalism. 3(3-0)**

This course examines historical and contemporary diasporas to the United States, with a primary focus on Latinas/os, and the racial/ethnic, sociopolitical, and economic intersections when debating the politics of inclusion/exclusion in a nation. Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 3364. Sociology of Religion. 3(3-0)**

In this course students will explore beliefs, values, practices, and institutional organizations of religions, the role of religion in society, and the role of religion and religiosity social conflict and social change. Prerequisites: SOCI 1301 or ENGL 1302.

**SOCI 3365. Social Movements. 3(3-0)**

A study of concepts and processes associated with the birth, membership, organization, maintenance, and effects of social movements by examining past and ongoing social movements, key social movement theories, and the effects of social forces such as globalization and technology on social movements. Prerequisites: SOCI 1301 or ENGL 1302.

**SOCI 3370. Introduction to Human Services. 3(3-0)**

In this class students will receive an overview of the application of sociology to hands-on work addressing social problems including the demands, values, and core competencies in human services such as social work. Prerequisite: SOCI 1301 or ENGL 1302

**SOCI 4320. Law and Society. 3(3-0)**

An in-depth examination of law and society through the philosophy and evolution of legal systems and legal institutions. The major functions of law as agents of social control, dispute resolution and societal engineering are addressed. (Credit may not be obtained in both SOCI 4320 and CRIM 4320.) Prerequisites: SOCI 1301 or ENGL 1302.

**SOCI 4325. Sociology of Corrections. 3(3-0)**

Overview of social, psychological, cultural, sociological and political factors related to the correctional enterprise. Includes treatment of the context of corrections, correctional practices, correctional issues, correctional institutions and correctional perspectives. May include field trips to correctional institutions. (Credit may not be obtained in both SOCI 4325 and CRIM 4325.)

**SOCI 4331. Demography and Population Problems. 3(3-0)**

Basic demographic concepts and formulae, historic and contemporary population trends, and effect of demographic changes on social norms, culture, and structure are covered in this course. Prerequisite: SOCI 2330.

**SOCI 4340. Topics: Environmental Sociology. 3(3-0)**

Literature and research in areas of Environmental Sociology not otherwise treated in depth in available courses. May be repeated once for credit when topics differ. Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 4341. Water and Society. 3(3-0)**

Water is the lifeblood of society. This course examines the interdependencies of social institutions and water resources; inequalities in access, use and contamination of water; and water policy and politics. Students will have the opportunity to experience vital water resource locations. Prerequisites: SOCI 1301 or ENGL 1302

**SOCI 4342. Technology and Society. 3(3-0)**

A study of technology and society from the perspective of social values, ethics, sociology, social environment, politics and economics. Prerequisites: SOCI 1301 or ENGL 1302. Credit may not be obtained in both SOCI 4342 and SOCI 4324.

**SOCI 4343. Social and Natural Systems of the U.S.-Mexico Border. 3(3-0)**

This course investigates the interaction of human society and the natural environment along the US-Mexico border. Issues such as population growth, resource use, economic development, and environmental degradation will be covered in the context of the border region. Prerequisite: SOCI 1301.

**SOCI 4344. Urban Sociology. 3(3-0)**

This class covers the culture, history and growth patterns of cities; demographic and ecological patterns and trends; problems of housing, mobility, education, and community organization; enclaves, aversive racism, and spatial aspects of inequality. Cannot receive credit for both SOCI 4344 and SOCI 3351. Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 4350. Selected Topics in Family. 3(3-0)**

Literature and research in areas of Family and Marriage not otherwise treated in depth in available courses. May be repeated once for credit when topics differ. Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 4351. Families and Inequality. 3(3-0)**

This course focuses on the effect of inequality on families; how families perpetuate economic systems and social inequalities, how workforce changes and economic cycles affect families, and how social structures and inequalities impact individual and family choices and opportunities. Prerequisite: SOCI 1306 or ENGL 1302.

**SOCI 4352. Deconstructing Disney: Race, Gender, and Age. 3(3-0)**

This course analyzes the intersection of gender, race, and age as presented in one of the most enduring and influential aspects of popular culture: the Disney princess films. Prerequisites: SOCI 1301 or ENGL 1302

**SOCI 4353. Mexican American Families. 3(3-0)**

This course will educate students on the structure and culture of Mexican American families. The role of this important institution will be examined in the context of the broader Mexican American experience. Data and empirical research along with significant cultural artifacts important for understanding Mexican American families will be examined. Prerequisite: ENGL 1302 or SOCI 1301.

**SOCI 4354. Sex, Sexuality, and Society. 3(3-0)**

This course explores sexual behaviors, variations, and development; contested and changing understandings of sexuality and sexualities; and associated social and cultural phenomenon. Credit may not be obtained in both SOCI 4354 and SOCI 3369, or PSYC 3369. Prerequisite: SOCI 1301 or ENGL 1302.

**SOCI 4362. Race and Ethnicity. 3(3-0)**

This class focuses on a critical analysis of the concepts of race and ethnicity; the formation of racial and ethnic identities; the imposition of identities on groups and individuals; and the dynamic nature of racial and ethnic labels. Prerequisites: SOCI 1306 or ENGL 1302.

**SOCI 4363. Afrx-Latinx: Race, Culture, and Transnationalism. 3(3-0)**

Through lectures, readings, film analysis, discussion and writing it is the goal of this course to illuminate the processes, actions, and histories that have impacted the lives of Afrx-Latinx people. This course will illustrate how Afrx-Latinx are a complex group of people with different experiences in the United States and that are deeply embedded in the histories, locations, structures and institutions of the United States. We will also investigate the structures that organize the migration flows from the Caribbean, Central and South American Nations. Prerequisites: SOCI 1301 or ENGL 1302.

**SOCI 4364. Women of Color. 3(3-0)**

In this class students will explore the complex patterns of identity and social status based on the intersection of race, ethnicity, and citizenship and the lingering influences of history. Prerequisite: SOCI 1306 or ENGL 1302.

**SOCI 4371. Aging in America. 3(3-0)**

This course provides an introduction to aging viewed through a sociological lens, including individual and societal implications, historical and cross-cultural comparisons, racial/ethnic and gender-based differences in the meaning and consequences of aging, and contemporary population and policy issues associated with aging. Prerequisites: SOCI 1301 or ENGL 1302. Credit may not be obtained in both SOCI 4371 and SOCI 4341.

**SOCI 4372. Death and Dying. 3(3-0)**

This course explores the processes, meanings, norms, policies, and institutions that create and maintain our understandings and rituals surrounding the processes of death, dying, and bereavement. Prerequisites: SOCI 1301 or ENGL 1302. Credit may not be obtained in both SOCI 4372 and SOCI 4342.

**SOCI 4380. Selected Topics in Sociology. 3(3-0)**

Literature and research in areas of sociology not otherwise treated in depth in available courses. May be repeated once for credit when topics differ. More than six hours credit may not be obtained from both SOCI 4308 and 4380. Prerequisites: SOCI 1301 and ENGL 1302.

**SOCI 4391. Sociology Internship. 3(3-0)**

This is an internship program designed to provide outstanding sociology students with an opportunity to acquire hands-on experience related to their career goals in for-profit businesses, nonprofit organizations or government agencies.

Prerequisites: SOCI 3320 and SOCI 3330, cumulative GPA of 3.0 or higher and instructor's approval. Three hours of SOCI 4391 may be used in place of SOCI 4392 with instructor approval.

**SOCI 4392. Sociology Capstone. 3(3-0)**

In this capstone option, students will review and complete their student portfolio by preparing a culminating paper.

Required for all sociology majors and for BAAS degrees with a sociology concentration. May be replaced with SOCI 4391 Sociology Internship or SOCI 4393 Directed Research (with instructor approval). Prerequisites: SOCI 3320 and SOCI 3330. Credit may not be obtained in both SOCI 4392 and SOCI 4303.

**SOCI 4393. Directed Research in Sociology. 3(3-0)**

This is an opportunity for outstanding sociology students who will be able to acquire hands-on research experience by conducting research under the guidance of a faculty member. Prerequisites: SOCI 3320 and SOCI 3330, cumulative GPA of 3.0 or higher and instructor's approval. Three hours of SOCI 4391 may be used in place of SOCI 4392 with instructor approval.

**SPANISH (SPAN)****SPAN 1311. Elementary Spanish I. 3(3-0)**

An introductory course teaching the fundamentals of Spanish in order to develop listening, speaking, reading and writing abilities. Prerequisite: TSI Reading.

**SPAN 1312. Elementary Spanish II. 3(3-0)**

Continuation of SPAN 1311. Prerequisite: SPAN 1311 or department approval.

**SPAN 2311. Intermediate Spanish I. 3(3-0)**

A review of Spanish grammar and expansion of basic language skills. Selected readings by Hispanic writers. Conducted in Spanish. Prerequisite: SPAN 1312 or two or more years of high school Spanish with departmental approval.

**SPAN 2312. Intermediate Spanish II. 3(3-0)**

Continuation of SPAN 2311. Conducted in Spanish. Prerequisite: SPAN 2311.

**SPAN 2313. Spanish for Heritage Speakers. 3(3-0)**

Spanish for Heritage Speakers is conducted entirely in Spanish, and covers the target grammar and conversation topics in SPAN 1311 and SPAN 1312. Course broadens student vocabulary, and strengthens reading, writing, and comprehension competencies through authentic reading and writing assignments. Prerequisite: Instructor approval. Formerly Span 1314. TSI Restrictions: Reading

**SPAN 2315. Spanish for Heritage Speakers II. 3(3-0)**

Spanish for Heritage speakers is conducted entirely in Spanish, and covers the target grammar and conversation topics in SPAN 2311 and SPAN 2312. Course broadens student vocabulary, and strengthens reading, writing, and comprehension competencies through authentic reading and writing assignments. Prerequisite: Instructor approval. TSI Restrictions: Reading

**SPAN 2320. Introduction to Spanish-Language Literature. 3(3-0)**

This course introduces students to the literature of Spanish-speaking cultures, from the Spanish Peninsula and the Americas. Prerequisite: ENGL 1301.

**SPAN 3301. Advanced Spanish Grammar. 3(3-0)**

A review of the basic principles of Spanish grammar to be followed by a detailed study of the finer points of grammar and syntax. Prerequisite: SPAN 2312.

**SPAN 3302. Spanish Composition. 3(3-0)**

Literary and technical writing and composition; instruction and practice in basic writing; analysis of different literary prose pieces as models for writing. Conducted in Spanish. Prerequisite: SPAN 2312.

**SPAN 3311. Professional Spanish. 3(3-0)**

Enables students to interact and work effectively with the international and domestic Spanish-speaking medical, legal, and business worlds. Emphasizes interaction between both English-speaking and Spanish-speaking professional communities and within the Spanish-speaking professional community. Prerequisite: SPAN 2312.

**SPAN 3321. Survey Spanish Peninsular Lit. 3(3-0)**

The history of Spanish literature from its beginning to the present. Conducted in Spanish. Prerequisite: SPAN 2312.

**SPAN 3331. Latin American Film History. 3(3-0)**

An introductory course teaching the history of film production, distribution, and the cinematic practices in Latin America. Prerequisite: ENGL 1301.

**SPAN 3361. Survey Spanish-American Lit. 3(3-0)**

The history of Spanish-American literature from its beginning to the present. Conducted in Spanish. Prerequisite: SPAN 2312.

**SPAN 4319. Hispanic Culture. 3(3-0)**

Survey of Hispanic culture. Main aspects of culture as found in Spain, Spanish America and the Hispanic communities in the U.S.A. Conducted in Spanish. Prerequisite: SPAN 2312.

**SPAN 4320. Topics in Spanish Literature. 3(3-0)**

Topics in Spanish-American and Spanish Peninsular literature. Conducted in Spanish. May be repeated as topics change. Prerequisite: SPAN 2312.

**SPAN 4321. Foreign Language Teaching Methods. 3(3-0)**

Methods and techniques; fundamental theory and practice; Students micro-teach lessons and prepare teaching materials which emphasize integrating the four language skills for a communicative classroom. Prerequisite: Instructor Approval

**SPEECH (SPCH)****SPCH 1315. Fundamentals of Public Speaking. 3(3-0)**

Introduction to Public Speaking details the history, theory and practice of public speaking with an emphasis placed upon the organization and delivery of informative and persuasive speeches. Further emphasis is given to the reduction of anxieties associated with public speaking. This course meets the standards for the Component Area Option category of course under the core curriculum. Prerequisites: TSI Reading/Writing.

**SPCH 1318. Interpersonal Communication. 3(3-0)**

Interpersonal Communication enables students to analyses and practice communication in one-on-one relationships. Students will learn and evaluate basic interpersonal communication theories as well as learn about their personal communication strengths and weaknesses and be given opportunities to improve their communication skills in both individual and group contests. This course meets the standards for the Component Area Option category of course under the core curriculum. Prerequisites: TSI Reading/Writing.

## **SOCIAL SCIENCES (SSCI)**

### **SSCI 3101. Jaguar Tracks III: Social Sciences. 1(1-0)**

In this course students will identify their skills, strengths, interests, and values as it relates to future career goals within their discipline. Students will volunteer in the community to gain transferable and direct skills to apply to future career goals. Through mock interviews, writing a professional and concise resume and cover letter, and researching professional organizations, students will be prepared to become active members of the community within their discipline. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

### **SSCI 4101. Jaguar Tracks IV: Social Sciences. 1(1-0)**

The focus of this course is discovering students' place in a professional field where student will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. Prerequisite: UNIV 3101 or SSCI 3101 or 90 or more earned academic semester credit hours.

## **SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM)**

### **STEM 3101. Jaguar Tracks III: Science and Mathematics. 1(1-0)**

The focus of this course is discovering the students' place in a disciplinary discussion where students will demonstrate knowledge of discipline-specific academic resources, discuss major issues within discipline, and become active members of the community within the discipline. Prerequisite: UNIV 2101 or 60 or more earned academic semester credit hours.

### **STEM 4101. Jaguar Tracks IV: Science and Mathematics. 1(1-0)**

The focus of this course is discovering the students' place in a professional field where students will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. Prerequisite: UNIV 3101 or STEM 3101 or 90 or more earned academic semester credit hours.

## **UNIVERSITY REQUIREMENTS (UNIV)**

### **UNIV 1101. Jaguar Tracks I. 1(1-0)**

The focus of this course is discovering students' place on campus where students will demonstrate knowledge of university services and resources, develop self-awareness and personal responsibility, and become active members of the campus community.

### **UNIV 2101. Jaguar Tracks II. 1(1-0)**

The focus of this course is discovering globalization and diversity through the lens of them-based curriculum where students will demonstrate knowledge of diverse points of view, develop global perspective, and become active members of the broader community. Prerequisite: 30 or more earned academic semester credit hours.

### **UNIV 3101. Jaguar Tracks III. 1(1-0)**

The focus of this course is discovering students' place in a disciplinary discussion where students will demonstrate knowledge of discipline-specific academic resources, develop major issues within the discipline, and become active members of the community within the discipline. Prerequisite: 60 or more earned academic semester credit hours.

### **UNIV 4101. Jaguar Tracks IV. 1(1-0)**

The focus of this course is discovering students' place in a professional field where students will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. Prerequisite: 90 or more earned academic semester credit hours.

## **WATER RESOURCES SCIENCE AND TECHNOLOGY (WATR)**

### **WATR 1301. Introduction to Water Treatment. 3(3-0)**

This course provides an introduction to the basic chemical, biological and mechanical processes by which conventional water treatment plants operate. Students will also be introduced to the history and evolution of water treatment technologies, as well as examine emerging trends in treatment. The course will provide an introduction to the study of conventional water treatment plants including an introduction to the various sources and problems associated with raw water. Topics discussed will include the theory, chemistry and practice of pretreatment, purification, process control procedures, chlorination systems, water softening, treatment plant safety procedures, and distribution. Students will be exposed to standard equipment, facilities, water transport, safety, and information technologies. Students will also gain an understanding of plant design, basic operation, management, and instrumentation at treatment plants. Hands-on experience with and observation of standard equipment and processes will be provided through a field experience. Students will tour actual water plant operations and learn about water purification at a local level.

### **WATR 1302. Introduction to Wastewater Treatment. 3(3-0)**

This course provides an introduction to the basic chemical, biological and mechanical processes by which conventional wastewater treatment plants operate. Students will also be introduced to the history and evolution of wastewater treatment technologies, as well as examine emerging trends in treatment. Students will be exposed to standard equipment, facilities, water transport, chemical injections, safety, information technology, and theory of wastewater treatment systems. Students will also gain an understanding of plant design, basic operation, management, and instrumentation at treatment plants. Hands-on experience with and observation of standard equipment and processes will be provided through a field experience.

### **WATR 3320. Pollutants in Environmental Systems. 3(3-0)**

This course is the study of the fate of contaminants in natural, disturbed, and man-made water systems. Study will focus on pollutants of concern to public and environmental health, including toxic chemicals, industrial discharges and spills, endocrine disruptor chemicals, methyl mercury, pesticides, sediment-borne contaminants, and other contaminants. Impacts, emergency response, safety advisories, impact on water supplies, and natural remediation processes will be explored, including biodegradation, thermodynamics, aeration, bioaccumulation, state change reactions, acid-base equilibria, speciation, solubility, redox chemistry, dilution, and sequestration. Prerequisites: CHEM 2371, CHEM 2171.

### **WATR 3325. Aquatic Science. 3(3-0)**

Aquatic science is covered comprehensively, with relevant principles of biology, chemistry, physics, geology, geography, hydrology, and ecology highlighted. Students explore aquatic systems from aquifer/headwaters to ocean with emphasis on Texas ecosystems. Students also are presented an introduction to the laws, policies and environmental perturbations impacting aquatic ecosystems and what citizens and governments are doing to manage these systems. Prerequisites: BIOL 1307, BIOL 1107.

### **WATR 3330. Green Systems for Wastewater Management. 3(3-0)**

Students will learn about using constructed green biological systems to manage raw and treated waste streams from runoff, combined sewer overflows, and treatment facilities across urban and rural landscapes. Students will examine best practices in restoration of wetlands, riparian zones, and other natural areas in a watershed that may function in bioremediation of wastes and augment municipal and industrial treatment. Work will include assessing the effectiveness and value of natural ecologic functions in maintenance of healthy watershed systems and water sustainability. Students will learn from practicing professionals about recent advances in urban and multiple use planning that incorporate extensive use of greenways and other green infrastructure for management of water distribution, wastes, and sustainable water systems, as well as support local agriculture and industry. Prerequisite: WATR 3325.

**WATR 3340. Water Resources Science and Technology Internship. 3(3-0)**

Students taking this course conduct specialized work on an individual basis, that includes training and actual practice working in a water resources science or water technology related for profit business, government agency, municipal agency, or nonprofit organization in the area of industrial water technology or water resource management. Students will be engaged in supervised experiential learning, under the direction of a university faculty member and employees of participating organizations. Students will have the opportunity to be involved in activities such as data collection, analysis, report writing, and plant, field or laboratory experiences. Prerequisites: POLS 3315; junior-level academic standing.

**WATR 4191. Water Resources Science and Technology Seminar. 1(1-0)**

Current topics in water resources science and technology are explored by students, along with guest presentations by experts in the field. Students may engage in "Point-Counter Point" debates. Students will research topics before class and participate in discussions. Prerequisite: Senior-level academic standing.

**WATR 4310. Desalination and Emerging Technologies. 3(3-0)**

This course takes advantage of close proximity to one of the first inland desalination plants that uses saline groundwater for freshwater production. Students will learn about the full range of desalination technologies in use and under development. Instruction will include membrane systems, microfiltration, distillation, atmospheric water generation, reverse osmosis, forward osmosis, brine disposal, electrodialysis, solar desalination, and small-scale desalination solutions. Students will participate in a field trip to a production-scale desalination facility where they will discuss desalination technologies and plant operations with practicing operators and technical experts. Students will also participate in a small-group cooperative research project from which a scientific report will be written. Results of the research will be orally presented to the class as a scientific report/paper. Prerequisites: CHEM 2371, CHEM 2171, WATR 1301.

**WATR 4315. Advanced Wastewater Recycling Systems. 3(3-0)**

This course is about water treatment technologies that are rapidly advancing the state of the art in pollution control. Taking advantage of San Antonio's proximity to oil fields, students will be exposed to innovative technologies coming into use through research and proof of concept testing directed at finding solutions to water resource impacts and usage during energy extraction, especially resulting from hydrologic fracturing processes. They will have an opportunity to explore compact modular treatment works now addressing unique pollution treatment requirements of specific industries and locations where a "one size fits all" approach to treatment of effluents no longer exists. New strategies for advanced recycling of gray water wastes, as well as innovative uses of black water and industrial effluents will be explored. Students will have an opportunity to visit field locations where new oilfield and industrial directed technologies are being used. Prerequisites: CHEM 2371, CHEM 2171, WATR 1302.

**WATR 4330. Water Management and Field Investigations. 3(3-0)**

This course provides an introductory course on the chemical and biological characteristics of groundwater, groundwater assessment and management, aquifer storage technologies, life underground, value to society, and the interactions of surface water and groundwater with the geologic environment. Topics include microbial processes, water quality sampling techniques, capacity, flow rates, living communities, aquifer mapping and modeling, recharge rates and projections, remote sensing techniques, impact of energy production activities, uses, role in society and economic value, and the fate of chemicals, contaminants, and dissolved components in water. Students will have an opportunity to explore groundwater through use of simple demonstration models and field visits to locations where groundwater management activities are currently underway. The course will include field activities, and students will participate in a small-group research project from which a scientific report will be written. Results of the research will be orally presented to the class as a scientific report/paper. Prerequisite: WATR 3325.

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