

Student ID: _____ SPC Advisor(s): _____
 Student Name: _____ TTU Advisor(s): _____

Pre-Electrical Engineering – AS to BS – Texas Tech University

Lower Division Requirements at South Plains College for an AS degree

The courses in this section meet the requirements for an Associate of Science degree. Please reference the General Degree Requirements section in the catalog for additional information.

Prerequisites

Course Name	Term Taken	Credit Hours	Grade
MATH1314 – College Algebra (MATH1320) (SPC Mathematics Core – 020 and TTU Mathematics Requirement) and		3	
MATH1316 – Plane Trigonometry (MATH1321) (SPC Mathematics Core – 020 and TTU Mathematics Requirement), or		3	
MATH2412 – Precalculus (MATH1350) (SPC Mathematics Core – 020 and TTU Mathematics Requirement) *Students who take MATH1316 or MATH2412 and do not complete all their math sequencing courses at SPC, must achieve a “B” or better in the aforementioned course(s) allowing enrollment into TTU’s MATH1451.		4	
COSC1301 – Introduction to Computing and Logic counts toward degree requirements for AS <u>Will not count towards degree at TTU, prerequisite for COSC1436, Programming Fundamentals I</u> <u>Prerequisite: MATH1314 or MATH2412 with a ‘C’ or better</u>		3	

First Semester

Course Name	Term Taken	Credit Hours	Grade
ENGL1301 – Composition I (ENGL1301) (SPC Communication Core – 010 and TTU Written Communication Requirement).		3	
HIST1301 – United States History I (HIST2300) (SPC American History Core – 060 and TTU American History Requirement).		3	
MATH2413 – Calculus I (MATH1451) <u>Prerequisite: MATH1314 and MATH1316, or MATH2412 with a ‘C’ or better.</u>		4	
CHEM1411 – General Chemistry I (CHEM1307 and CHEM1107) (SPC Life and Physical Sciences Core – 030 and TTU Science Requirement).		4	
KINE Activity Course counts toward degree requirements for AS		1	
First Semester Hours		15	

Second Semester

Course Name	Term Taken	Credit Hours	Grade
ENGL1302 – Composition II (ENGL1302) (SPC Communication Core – 010 and TTU Written Communication Requirement). <u>Prerequisite: ENGL1301 with a ‘C’ or better or English Chairperson Approval.</u>		3	
MATH2414 – Calculus II (MATH1452) (TTU Math Core – 020). <u>Prerequisite: MATH2413 with a ‘C’ or better.</u>		4	

PHYS2425 – Principles of Physics I (PHYS1408) (SPC Life and Physical Sciences Core – 030 and TTU Science Requirement) <i>Prerequisite: MATH2413 with a 'C' or better.</i>		4	
HIST1302 – United States History II (HIST2301) (SPC American History Core – 060 and TTU United States History Requirement).		3	
COSC1436 – Programming Fundamentals I (CS1411 and may be substituted for the required ENGR1330 for students who transfer with 24+ transferrable credit hours). <i>Prerequisite: COSC1301 with a 'C' or better.</i>		4	
Second Semester Hours		18	
Third Semester			
Course Name	Term Taken	Credit Hours	Grade
Creative Arts select one course from the Creative Arts Core (SPC Creative Arts Core – 050 and TTU Creative Arts Requirement). ARTS1301 or ARTS1304 will satisfy the TTU Creative Arts and 3-hour Multicultural requirements.		3	
MATH2415 – Calculus III (MATH2450) <i>Prerequisite: MATH2414 with a 'C' or better.</i>		4	
MATH2318 – Linear Algebra (MATH2360) <i>Will not count towards degree at TTU, but useful for MATH2320 (Differential Equations)</i> <i>Prerequisite: MATH2414 with a 'C' or better.</i>		3	
GOVT2305 – Federal Government (POLS1301) (SPC Government Core – 070 and TTU Government Requirement).		3	
PHYS2426 – Principles of Physics II will transfer as PHYS2401 <i>Prerequisite: MATH2414 and PHYS2425 with a 'C' or better.</i>		4	
Third Semester Hours		17	
Fourth Semester			
Course Name	Term Taken	Credit Hours	Grade
ENGR1201 – Introduction to Engineering (ENGR 1110) <i>Prerequisite: MATH1314 or MATH2412 with a 'C' or better.</i>		2	
ENGR2308 – Engineering Economics (IE2324) (SPC Social and Behavioral Sciences Core – 080 and TTU Social & Behavioral Sciences Requirement). <i>Prerequisite: MATH2413 with a 'C' or better.</i>		3	
ENGR2305 and ENGR2105 – Electrical Circuits I - (ECE3302 only if both the class and lab are completed in combination and passed with a 'B' or better) <i>Prerequisite: PHYS2426 and MATH2414 with a 'C' or better. Pre/Corequisite: MATH2320</i>		4	
MATH2320 – Differential Equations (MATH3350)		3	
Fourth Semester Hours		12	
Total Hours		62	
Additional Courses			
Course Name	Term Taken	Credit Hours	Grade
SPCH1321 – Business and Professional Speech (COMS2358) or SPCH1315 Public Speaking (COMS2300) (SPC Speech Component Core – 090 and TTU Oral Communication Requirement).		3	

GOVT2306 – Texas Government (POLS2306) (SPC Government Core – 070 and TTU Government Requirement).		3	
Language, Philosophy & Culture – Select one course (SPC Language, Philosophy, and Culture Core – 040 and TTU Language, Philosophy, and Culture Requirement). ENGR2392 at TTU is required for this major and satisfies this requirement. SPC does not offer an equivalent course.		3	
Multicultural Elective at TTU In addition to the core, every student must successfully complete at least one 3-hr multicultural course or its equivalent that focuses explicitly on the distinctive subcultures of the United States or another society. At South Plains College, students can earn credit towards the multicultural elective by taking one of the following courses: ANTH2351, ARTS1301, GEOG1302, GEOG1303, HUMA2319, PHIL1304, and SOC1301.			
Foreign Language Requirement Students must meet the foreign language requirement for Texas Tech University (<i>See the TTU Uniform Graduation Requirements below</i>). An SPC student, who has not earned two years of a single foreign language in high school, can take SPAN1411 and SPAN1412 at SPC. If the student has earned two years of a single foreign language in high school, no further foreign language is required for this major.			
SPC American History Core Component – 060 Options Additional options are available to complete the American History Core. <i>Instead of HIST1301, students can take HIST2327 – Mexican American History I, HIST2381 – African American History I, or *HIST2301 – Texas History. For HIST1302, students can take HIST2328 – Mexican American History II, HIST2382 – African American History II, or *HIST2301 – Texas History.</i> Texas History can be used one time to fulfill three of the six hours required.			
TSI-Compliance Students who are not TSI-compliant in reading or English are advised to take the INRW0300/ENGL1301 corequisite. Successful completion will grant TSI-compliance in these areas and college-credit for ENGL1301. ENGL1302 requires a 'C' or better in the corequisite or approval by the English Chairperson. Students who are not TSI-compliant in math are advised to take the MATH0314/MATH1314 corequisite. Successful completion will grant TSI-compliance in math and college-credit for MATH1314.			
Applicable Transfer Credit Hours This transfer guide provides 70 credit hours. Evaluation of course credit earned at other institutions by the TTU Transfer Evaluation Office does not decree approval of the credit for use toward degree requirements. Only the academic dean of the college offering the program in which a student is enrolled has authority for determining which courses will be applied toward any specific program. The only exception to this rule is that no transferred course completed with a grade below C- may be applied to fulfill course requirements in majors, minors, or concentrations. Applicants must submit official records from all accredited institutions attended. Official transcripts must be sent directly to the Office of Undergraduate Admissions. All college-level, non-vocational courses completed with a passing grade of D or above at regionally accredited colleges and universities (not including trade or technical schools) will be evaluated for acceptance of transfer credit by the TTU Transfer Evaluation Office. The TTU Transfer Evaluation Office determines acceptable transfer credit on the basis of an evaluation of course content as described from the sending institution's catalog and in consultation with the appropriate academic units at Texas Tech University as necessary for clarification. While all credit hours presented on the sending institution's transcripts will be evaluated and equivalent college level courses posted to the student's academic record, a maximum of 80 semester credit hours from two-year colleges may be applied toward Texas Tech University degree requirements. Courses that are accepted for transfer do not necessarily apply toward college, departmental, or program degree requirements.			
Texas Tech University Uniform Graduation Requirements Foreign Language Requirement <ul style="list-style-type: none"> Students graduating from Texas Tech University should be able to express, negotiate, and interpret meaning in a second language. Any entering student who has not completed two years of a single foreign language in high school must complete at least two semesters (or its equivalent) of a single foreign language at the first-year college			

level or at least one semester of a foreign language at a 2000 level or higher as a graduation requirement. This requirement may also be satisfied by transferring in the equivalent courses from another college or university. Individual Texas Tech University colleges may have additional foreign language proficiency requirements. Additional requirements may be necessary for select majors.

Science Laboratory Requirement

- Students graduating from Texas Tech University are required to complete two semester credit hours of science laboratory courses. Normally this will be done by taking two 4-credit science courses or combinations of lecture and lab.

Communication Literacy Requirement

- Students will complete the required communication literacy requirement.

Core Curriculum Requirement

- Students will complete the required core curriculum.

Multicultural Requirement

- In addition to the State of Texas core curriculum, every student must include at least one 3-hour multicultural course or its equivalent that focuses explicitly on the distinctive subcultures of the United States or on the culture of another society.

Assured Admission to Texas Tech University

If you present the required combination of transferable hours and GPA below, you are assured admission. GPA is cumulative for all transferable courses (including dual credit) from all schools attended. Courses taken for grade replacement are used for GPA calculation only if the same course is repeated at the same institution where it was originally taken.

Transferable Hours	GPA Requirements
12-23 hours	2.50 cumulative
24 or more hours	2.25 cumulative

Certain academic colleges and departments at TTU have special admissions requirements. Please review these requirements by college [here](#).

Special College Admission Requirements

Some academic colleges and departments at Texas Tech only accept students who meet assured admission requirements. College entrance requirements are subject to change and are listed in the [Texas Tech Undergraduate Catalog](#).

TTU Honors College

SPC students are encouraged and invited to apply to the TTU Honors College. The Honors College utilizes a holistic review process in which all application materials are considered before a decision is awarded. As an SPC Honors student, the following information may prove useful:

- TTU will transfer up to 12 hours of SPC-approved Honors credit, with a grade earned of B- or higher in each course, towards completion of the 24 TTU Honors hours.
- Students must apply to the Honors College and can also receive a fee waiver for the \$35 application fee to the Honors College. Honors students at SPC can contact Honors.Admissions@ttu.edu about having the application fee waived.

Explore the opportunities offered through the [TTU Honors College](#).

Texan to Red Raider Program

Students transferring to Texas Tech can take advantage of the [Texan to Red Raider program](#). Students who apply to TTU as a non-degree seeking student can be dual enrolled in classes at both institutions. The following courses are approved for dual enrollment for this major:

ENGR 1320 – Bio-Inspired Design for Engineers

ENGR 2392 – Engineering Ethics and its Impact on Society

ECE 2305 – C Programming with Hardware Applications

ECE 2372 – Modern Digital System Design

Prerequisites do apply.

Additional Texas Tech Advising Notes

- Refer to the official source of information on specific courses within the TTU requirements of this [degree plan](#) from the TTU Undergraduate Catalog or visit the web site at www.ttu.edu.
- Read the [TTU Undergraduate Catalog](#).

Pay close attention to course sequencing and availability at TTU as it will affect the time it takes to complete the degree program.

Using this Transfer Advising Guide with Texas Tech University

This Transfer Advising Guide represents Texas Tech's degree plan and is subject to change at the university's discretion. It is intended for advising purposes only so students know exactly which courses they can take at South Plains College and have the courses count towards degree requirements when they transfer to Texas Tech. It is highly recommended that students meet with their assigned academic advisor to review all graduation and transfer requirements listed in the Transfer Advising Guide.

The ultimate goal is to provide students with accurate information for transfer pathways while minimizing loss of credits in transfer. Students are encouraged to review Texas Tech's requirements frequently.

The Transfer Advising Guide is based upon Texas Tech University's catalog and is subject to change.

Transfer Scholarships

PRESIDENTIAL TRANSFER SCHOLARSHIP

QUALIFICATIONS

30 Transferable GPA Hours
3.0 GPA

\$3,000
per year

RENEWAL REQUIREMENT
3.0 GPA & 12 hours earned per term

PROVEN ACHIEVERS SCHOLARSHIP

QUALIFICATIONS

60 Transferable GPA Hours
3.5 GPA

\$4,000
per year

RENEWAL REQUIREMENT
3.25 GPA & 12 hours earned per term

Transfer Merit Scholarships are guaranteed for students who have transcripts and other required documents submitted by July 31 for Fall entry or January 15 for Spring entry. Scholarships are renewable for up to three consecutive years (six total terms). Students must enroll in a minimum of 12 credit hours; 9 must be TTU hours. Scholarships are awarded after June 1 based on availability of funds (fall entry). Students with approved consortium agreements must take a minimum of 9 TTU hours. Transferable hours exclude credit hours from AP, CLEP, or military credits. Students must meet all criteria to qualify.

Students awarded a transfer level scholarship of \$2,500 for 3 years can be upgraded to a Presidential Transfer or Proven Achiever's level scholarship based on updated transcript information received prior to the first, class day of the student's entry semester. Students are eligible for only one university level transfer scholarship.

Transfer Scholarships are offered to students who are admitted as transfer students based on official transcripts submitted to the Office of Undergraduate Admissions and pay toward fall and spring terms. Complete requirements early - final awards are based on transcripts received by July 31st for fall or January 15th for spring entry terms.

Non-residents awarded a Texas Tech competitive scholarship of \$1,000 or greater (including Proven Achievers) will qualify to pay in-state tuition.