

Student Name:	SPC Advisor:
Student ID:	TTU Advisor:

Texas Tech University Pre-Industrial Engineering Transfer Guide

Lower Division Requirements at South Plains College for an AS degree

[SPC Catalog: Associate of Science: Pre-Engineering](#)

Pre-requisites				
SPC Course	TTU Course Equivalency	Grade	Credit Hrs	TCC
MATH1314 - College Algebra and MATH1316 - Plane Trigonometry ¹ or (Grade of "C" or better required)	MATH1320 (Mathematics) MATH1321 (Mathematics)		6	020
MATH2412 - Pre-Calculus ¹ (Grade of "C" or better required)	MATH1350 (Mathematics)		4	020
COSC1301 - Intro to Computing and Logic (Grade of "C" or better required) Prerequisite: TSI Compliance in ELAR/MATH required	CS 1300 Not required for Engineering major at TTU.		3	
1. 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.				
First Semester				
SPC Course	TTU Course Equivalency	Grade	Credit Hrs	TCC
ENGL1301 - Composition I	ENGL1301 (Written Communication)		3	010
CHEM1411 - General Chemistry I	CHEM1307/1107 (Life and Physical Sciences)		4	030
ENGR1201 - Introduction to Engineering (Grade of "C" or better required) Prerequisite: MATH1314 with a "C" or better	ENGR1110		2	
MATH2413 - Calculus I (Grade of "C" or better required) Prerequisite: MATH1316 or MATH2412 with a "C" or better	MATH1451 (Mathematics)		4	020
COSC1436 - Programming Fundamentals I Prerequisite: COSC1301 and MATH1314 with a "C" or better	CS 1411 (substitutes for ENGR 1330) 24 or more earned hours required for substitution		4	
TOTAL SEMESTER HOURS			17	
Second Semester				
SPC Course	TTU Course Equivalency	Grade	Credit Hrs	TCC
ENGL1302 - Composition II Prerequisite: ENGL1301 with a "C" or better	ENGL1302 (Written Communication)		3	010
MATH2414 - Calculus II (Grade of "C" or better required) Prerequisite: MATH2413 with a "C" or better	MATH1452 (Mathematics)		4	
PHYS2425 - Principles of Physics I (Grade of "C" or better required) Prerequisite: MATH2413	PHYS1408 (Life & Physical Science)		4	030
GOVT2305 - American Government or GOVT2306 - Texas Government	POLS1301 or POLS2306 (Government)		3	070
TOTAL SEMESTER HOURS			14	
Third Semester				
SPC Course	TTU Course Equivalency	Grade	Credit Hrs	TCC
MATH2415 - Calculus III (Grade of "C" or better required) Prerequisite: MATH2414 with a "C" or better	MATH2450		4	
PHYS2426 - Principles of Physics II Prerequisite: MATH2414 and PHYS2425 with a "C" or better	PHYS2401(Life and Physical Sciences)		4	
MATH2318 - Linear Algebra (Grade of "C" or better required) Prerequisite: MATH2414 with a "C" or better	MATH2360		3	
ENGR2301 - Engineering Mechanics I - Statics (Grade of "C" or better required) Prerequisite: PHYS2425 with a "C" or better	ME2301		3	
HIST1301 - US History I	HIST2300 (American History)		3	060
TOTAL SEMESTER HOURS			17	
Fourth Semester				
SPC Course	TTU Course Equivalency	Grade	Credit Hrs	TCC
MATH2320 - Differential Equations (Grade of "C" or better required) Prerequisite: MATH2414 with a "C" or better	MATH2---/3350 Not calculated as Jr/Sr hours. Not required for this degree.		3	
HIST1302 - US History II	HIST2301(American History)		3	060
ENGR2308 - Engineering Economics (Grade of "C" or better required) Prerequisite: MATH2413 with a "C" or Better	IE2324 (Social & Behavioral Sciences)		3	080
SPCH1321 - Business and Professional Speech or SPCH1315 Public Speaking	COMS2358 or COMS2300 (Oral Communication)		3	090
Kinesiology Activity	PF&W 11-- Not required for Engineering major at TTU.		1	
TOTAL SEMESTER HOURS			13	
Total Transfer Hours			61	

Students need to complete at least 60 hours for an associate's degree

[Please refer to the General Degree Requirements section in the catalog for additional information.](#)

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.

Degree Information

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.

Texas Tech University Uniform Graduation Requirements

Foreign Language Requirement

Students must meet the foreign language requirement for Texas Tech University (See the TTU Uniform Graduation Requirements below). 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.

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.

Core Curriculum and Communication Literacy Requirement

Communication Literacy Requirement: Students will complete the required communication literacy requirement.
Core Curriculum Requirement: Students will complete the required core curriculum.

ADDITIONAL COURSES THAT CAN BE TAKEN AT SPC FOR TRANSFER

SPC Course	TTU Course Equivalency
GOVT2305 - American Government or GOVT2306 - Texas Government <small>Course not taken for AS degree</small>	POLS1301 or POLS2306 (Government)
Creative Arts	(Creative Arts)
ENGR 1304- Engineering Graphics I	EGR 1--- + EGR 1206 (Substitutes for ME 2207)
Choose From: ENGR 2302 - Engineering Mechanics I - Statics ENGR 2305 - Circuits Analysis ENGR 2332 - Mechanics of Materials	ME 2302 ECE 2---/3301 (Not calculated as Jr/Sr hours.) CE 2---/3303 OR ME 2---/3403 (Not calculated as Jr/Sr hours.)

Texan to Red Raider Program

Texan to Red Raider Website: <https://www.southplainscollege.edu/texantoredraider/>

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:

- ENGR1320 - Bio-Inspired Design for Engineers or ENGR 1340 - Intro to Engineering Design
- ENGR2392 - Engineering Ethics and its Impact on Society
- IE2341 - Engineering Thermodynamics I
- IE 2401 - Work Design for Production Operations

Prerequisites do apply.

Texas Tech University Information

Admissions

Transfer Application:	https://www.depts.ttu.edu/admissions/apply/
Application Checklist:	https://www.depts.ttu.edu/admissions/TransferChecklist.pdf
Dates and Deadlines:	https://www.depts.ttu.edu/admissions/apply/ImportantDates/
Admission Guide:	https://www.depts.ttu.edu/admissions/AdmissionGuide/Viewbook_Web.pdf
TTU Admission Webinars:	https://www.depts.ttu.edu/admissions/virtualevents/index.php

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.

Transfer Advising

Transfer Website:	https://www.depts.ttu.edu/admissions/advising/
Degree Works:	Degree Works: https://ttudegreeworks.texastech.edu/Transfer/#!/transfer/
Additional Advising Notes:	Refer to and 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.

Applicable Transfer Credit Hours

Evaluation of course credit earned at other institutions by the TTU Transfer Evaluation Office does not guarantee 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.

Degree Programs

TTU Degree Programs:	https://www.ttu.edu/majors-and-colleges/undergraduate-majors/
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Financial Aid

Financial Aid Website:	https://www.depts.ttu.edu/financialaid/
Transfer Scholarships:	Transfer Scholarships: https://www.depts.ttu.edu/scholarships/transferStudentsScholarships.php
Red Raider Guarantee:	Red Raider Guarantee: https://www.depts.ttu.edu/financialaid/guarantee/

Cost of Attendance

Cost of Attendance:	https://www.depts.ttu.edu/financialaid/costtoattend.php
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Orientation

Red Raider Orientation	https://www.depts.ttu.edu/orientation/Transfer/
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Honors College

TTU Honors Website:	https://www.depts.ttu.edu/honors/
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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 apply 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.