

Student ID: \_\_\_\_\_ SPC Advisor(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_ TTU Advisor(s): \_\_\_\_\_

# Pre-Mechanical 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 will transfer as MATH1320 (SPC Mathematics Core – 020 and TTU Mathematics Requirement) and		3	
MATH1316 – Plane Trigonometry will transfer as MATH1321 (SPC Mathematics Core – 020 and TTU Mathematics Requirement), or		3	
MATH2412 – Precalculus will transfer as MATH1350 (SPC Mathematics Core – 020 and TTU Mathematics Requirement)		4	
COSC1301 – Introduction to Computing and Logic counts toward degree requirements for AS <b><i>Will not count towards degree at TTU, prerequisite for COSC 1436, Programming Fundamentals I</i></b> <i>Prerequisite: MATH1314 or MATH2412 with a 'C' or better.</i>		3	

### First Semester

Course Name	Term Taken	Credit Hours	Grade
ENGR1304 – Engineering Graphics will transfer as EGR1206 and may be substituted for ME 2207.		3	
HIST1301 – United States History I will transfer as HIST2300 (SPC American History Core – 060 and TTU American History Requirement).		3	
MATH2413 – Calculus I will transfer as MATH1451 <i>Prerequisite: MATH1314 and MATH1316, or MATH2412 with a 'C' or better.</i>		4	
CHEM1411 – General Chemistry I will transfer as 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	
<b>First Semester Hours</b>		<b>15</b>	

### Second Semester

Course Name	Term Taken	Credit Hours	Grade
ENGL1301 – Composition I will transfer as ENGL1301 (SPC Communication Core – 010 and TTU Written Communication Requirement).		3	
MATH2414 – Calculus II will transfer as MATH1452 (TTU Math Core – 020). <i>Prerequisite: MATH2413 with a 'C' or better.</i>		4	
PHYS2425 – Principles of Physics I will transfer as PHYS 1408 (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 will transfer as HIST2301 (SPC American History Core – 060 and TTU United States History Requirement).		3	

<b>KINE Activity Course</b> counts toward degree requirements for AS		1	
<b>Second Semester Hours</b>		15	
<b>Third Semester</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Credit Hours</b>	<b>Grade</b>
ENGL1302 – <b>Composition II</b> will transfer as ENGL1302 (SPC Communication Core – 010 and TTU Written Communication Requirement). Prerequisite: ENGL1301 with a 'C' or better or English Chairperson Approval.		3	
ENGR2308 – <b>Engineering Economics</b> will transfer as IE2324 (SPC Social and Behavioral Sciences Core – 080 and TTU Social & Behavioral Sciences Requirement). Prerequisite: MATH2413 with a 'C' or better.		3	
ENGR2301 – <b>Engineering Mechanics I – Statics</b> will transfer as ME2301 or CE2301 Prerequisite: PHYS2425 with a 'C' or better		3	
ENGR1201 – <b>Introduction to Engineering</b> will transfer as ENGR1110 Prerequisite: MATH1314 or MATH2412 with a 'C' or better.		2	
PHYS2426 – <b>Principles of Physics II</b> will transfer as PHYS2401 Prerequisite: MATH2414 and PHYS2425 with a 'C' or better.		4	
<b>Third Semester Hours</b>		15	
<b>Fourth Semester</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Credit Hours</b>	<b>Grade</b>
ENGR2305 – <b>Electrical Circuits I</b> will transfer as ECE3301 Prerequisite: PHYS2426 and MATH2414 with a 'C' or better. Pre/Corequisite: MATH2320		3	
ENGR2302 – <b>Engineering Mechanics II – Dynamics</b> will transfer as ME2302 or CE3302 Prerequisite: ENGR2301 with a 'C' or better		3	
MATH2415 – <b>Calculus III</b> will transfer as MATH2450 Prerequisite: MATH2414 with a 'C' or better.		4	
MATH2320 – <b>Differential Equations</b> will transfer as MATH3350		3	
SPCH1321 – <b>Business and Professional Speech</b> will transfer as COMS2358 or SPCH1315 <b>Public Speaking</b> will transfer as COMS2300 (SPC Speech Component Core – 090 and TTU Oral Communication Requirement).		3	
<b>Fourth Semester Hours</b>		16	
<b>Total Hours</b>		61	
<b>Additional Courses</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Credit Hours</b>	<b>Grade</b>
GOVT2305 – <b>Federal Government</b> will transfer as POLS1301 (SPC Government Core – 070 and TTU Government Requirement).		3	
GOVT2306 – <b>Texas Government</b> will transfer as POLS2306 (SPC Government Core – 070 and TTU Government Requirement).		3	
<b>Creative Arts</b> select one course from the Creative Arts Core (SPC Creative Arts Core – 050 and TTU Creative Arts Requirement). ARTS 1301 or ARTS 1304 will satisfy the TTU Creative Arts and 3-hour Multicultural requirements.		3	
<b>Language, Philosophy &amp; Culture</b> – Select one course (SPC Language, Philosophy, and Culture Core – 040 and TTU Language, Philosophy, and Culture Requirement).		3	
COSC1436 – <b>Programming Fundamentals I</b> will transfer as CS1411 <b>Will not count towards degree at TTU, but useful in career</b> Prerequisite: COSC1301 with a 'C' or better.		4	

### **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 SOCI1301.*

### **SPC American History Core Component – 060 Options**

Additional options are available to complete the American History Core. *Instead of HIST1301, students can take HST2327 – 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.* 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**

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**

- *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 at <https://catalog.ttu.edu/>

### **Additional Texas Tech Advising Notes**

- Make an appointment with an academic advisor of the major, once accepted to TTU, in order to clarify department, university policies and procedures, to review course sequencing, and to help with identifying resources for academic success. A current list of academic advising resources can be found at <https://www.depts.ttu.edu/admissions/advising/staff.php>.
- 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](http://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

Texas Resident  
30 Transferable GPA Hours  
3.0 GPA  
Financial Need as Evidenced by FAFSA or TASFA

**\$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 1 for Fall entry or January 1 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 6th 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.