

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

# Pre-Mechanical Engineering – AS to BS – West Texas A&M 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
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Course Name	Term Taken	Credit Hours	Grade
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<b>Prerequisite Options for MATH2413 and COSC1301</b> MATH1414 (or 1314)– College Algebra <u>and</u> MATH1316 – Plane Trigonometry ( <i>Math Core – 020</i> ) or MATH2412 – Precalculus ( <i>Math Core – 020</i> ) with a ‘C’ or better		4-7	
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<b>Prerequisite for COSC1436</b> COSC1301 – Introduction to Computing and Logic will transfer as CS1301 and satisfy SPC Institutional Option Core for Computer Skills – 090.		3	
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### First Semester

Course Name	Term Taken	Credit Hours	Grade
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ENGL1301 – Composition I ( <i>Communication Core – 010</i> )		3	
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CHEM1411 – General Chemistry I ( <i>Life &amp; Physical Sciences Core – 030</i> )		4	
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ENGR1304 – Engineering Graphics		3	
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MATH2413 – Calculus I ( <i>Math Core – 020</i> ) ( <b>PME</b> )		4	
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GOVT2305 – Federal Government (POSC2305) ( <i>Government Core – 070</i> ).		3	
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<b>Total Semester Hours</b>		<b>17</b>	
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### Second Semester

Course Name	Term Taken	Credit Hours	Grade
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COSC1436 – Programming Fundamentals I (CS1315) ( <b>PME</b> ) <i>Prerequisite: COSC1301 with a ‘C’ or better</i>		4	
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PHYS2425 – Principles of Physics I <i>Life &amp; Physical Science – 030</i> ( <b>PME</b> ) <i>Prerequisite: MATH2413 with a ‘C’ or better</i>		4	
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ENGL1302 – Composition II ( <i>SPC Communication Core – 010 and WTAMU Component Area Option Core – 090</i> ) <i>Pre-requisite: ENGL1301 with a ‘C’ or better or English Chairperson Approval</i>		3	
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MATH2414 - Calculus II ( <b>PME</b> ) <i>Prerequisite: MATH2413 with a ‘C’ or better</i>		4	
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KINE Activity Course counts towards degree requirements for AS		1	
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<b>Total Semester Hours</b>		<b>16</b>	
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<b>Third Semester</b>			
Course Name	Term Taken	Credit Hours	Grade
HIST1301 – United States History I (American History Core – 060)		3	
ENGR1201 – Introduction to Engineering (ENGR1301 and ENGR1301L)(PME)		2	
ENGR2301 – Engineering Mechanics I – Statics (PME) Prerequisite: PHYS2425 with a 'C' or better		3	
MATH 2415 – Calculus III (MATH2315TR, credit awarded for Calculus III but will not count towards a math minor) Prerequisite: MATH2414 with a 'C' or better. (PME)		4	
MATH2318 – Linear Algebra (MATH2000, credit awarded for Linear Algebra, but will not count towards a math minor) Prerequisite: MATH2413 with a 'C' or better.		3	
<b>Total Semester Hours</b>		<b>15</b>	
<b>Fourth Semester</b>			
Course Name	Term Taken	Credit Hours	Grade
ENGR2302 – Engineering Mechanics II – Dynamics (PME) Prerequisite: ENGR2302 with a 'C' or better		3	
HIST1302 – United States History II (American History Core – 060)		3	
ENGR2308 – Engineering Economics (ENGR 3202)( Social & Behavioral Sciences Core – 080) Prerequisite: MATH2413 with a 'C' or better.		3	
MATH2320 – Differential Equations (MATH2320TR credit awarded for Differential Equations, but will not count towards a math minor)		3	
Speech Communication – Select one of the following: SPCH 1311, SPCH1315, or SPCH1321. (SPC Component Area Option Core – 090 and WTAMU Communication Core – 010).		3	
<b>Total Semester Hours</b>		<b>15</b>	
<b>Total Hours</b>		<b>61</b>	
<b>PME – WTAMU Mechanical Engineering Program Admission Requirement – Minimum GPA of 2.75</b>			
<b>Additional Courses</b>			
Course Name	Term Taken	Credit Hours	Grade
Creative Arts (Creative Arts Core - 050)		3	
GOVT2306 – Texas Government will transfer as POSC2306 (Government Core – 070).		3	
Language, Philosophy and Culture (Language, Philosophy, and Culture Core – 040)		3	
PHYS2426 – Principles of Physics II Life & Physical Science – 030 (PME) Prerequisite: MATH2414 and PHYS2425 with a 'C' or better.		4	
ENGR2305 – Electrical Circuits I will transfer as ENGR1375 and ENGR1375L Prerequisite: PHYS2426 and MATH2414 with a 'C' or better Pre/Corequisite: MATH2320		3	
<b>SPC American History Core Component – 060 Options</b>			
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.

### **WTAMU Engineering Note**

Students, wanting to minor in mathematics, must take nine hours of advanced mathematics (3000/4000 level).

### **Applicable Transfer Credit Hours**

Evaluation of course credit earned at other institutions by the WTAMU 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 WTAMU Transfer Evaluation Office. The WTAMU 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 West Texas A&M 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 West Texas A&M University degree requirements.** Courses that are accepted for transfer do not necessarily apply toward college, departmental, or program degree requirements.

### **Admission to WTAMU as a Transfer Student**

Transfer students have earned transferable 12 or more college-level credit at a regionally accredited institution the fall semester or later after high school graduation. College credits earned prior to high school graduation (dual-credit) and courses taken immediately following high school graduation during the summer do not count towards the 12 needed to classify a student as a transfer student. All new transfer students must complete Transfer Student Orientation. Transfer students must complete the online Transfer Student Orientation and then have the option to register for an optional Transfer Registration Day on campus. By selecting the following link, you can learn more about [Transfer Student Orientation | WTAMU](#).

### **WTAMU Admission Decision**

Applicants who hold an associate's degree from South Plains College OR have a combination of transferable hours and GPA outlined below are guaranteed admission:

Transferable Hours GPA

12 or more (post high school credit hours) 2.0 or higher cumulative GPA

Applicants that do not meet admission guarantee criteria above will be evaluated under a competitive review process. Factors considered may include but are not limited to: types of courses taken, rigor of curriculum, pattern of progress, and potential for success.

Students who are currently suspended from another college or university are not eligible for admission to West Texas A&M University.

### **Additional WTAMU Advising Notes**

- Make an appointment with an academic advisor of the major, once accepted to WTAMU, in order to clarify department, university policies and procedures, to review course sequencing, and to help with identifying resources for academic success.
- Refer to the official source of information on specific courses within the WTAMU requirements of this degree plan from the WTAMU Undergraduate Catalog or visit the web site at [www.wtamu.edu](http://www.wtamu.edu)
- Read the WTAMU Undergraduate Catalog.
- Pay close attention to course sequencing and availability at WTAMU as it will affect the time it takes to complete the degree program. It is recommended to transfer when students earn between 60-66 hours.

### **Using this Transfer Advising Guide with WTAMU**

This Transfer Advising Guide represents West Texas A&M's degree plan and is subject to change at the university's discretion. It is intended for advising purposes only so students know which courses they can take at South Plains College and have the courses count towards degree requirements when they transfer to West Texas A&M. 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 West Texas A&M University's requirements frequently.

The Transfer Advising Guide is based upon [West Texas A&M University's Catalog](#) and is subject to change.

### **Automatic Scholarships for Transfer Students**

The following scholarships are awarded once you have: 1) been accepted for admission, 2) met the necessary criteria for the scholarship with official documentation and applied for financial aid through submission of the FAFSA. You will receive the largest scholarship for which you are qualified.

***Who is a transfer student?*** *Students who enroll for the first time at WT with more than 12 post-high school credit hours will be considered transfer students for the purposes of these scholarships.*

#### **Buff Transfer Scholarship - \$1,000/yr for up to 2 years**

- 3.0 GPA
- Enrolled full-time (minimum of 12 hours per term, Fall and Spring)
- FAFSA application submitted 60 days prior to the first day of class

**\*\*A merit scholarship of \$1000 or more will enable International students to receive the competitive scholarship waiver. This waives non-resident tuition. Contact the WT Business Office for further cost information. International students do not have to complete the FAFSA to qualify for this scholarship.**

#### **Maroon Transfer Scholarship - \$2,000/yr for up to 2 years**

- 3.5 Transfer GPA
- U.S. Resident, U.S. Permanent Resident, and eligible noncitizens
- Enrolled full-time (12 or more hours per term, Fall and Spring)
- FAFSA application submitted 60 days prior to the first day of class

**President's Transfer Scholarship** - \$3,000/yr for up to 2 years

- 4.0 Transfer GPA
- U.S. Resident, U.S. Permanent Resident, and eligible noncitizens
- Enrolled full-time (12 or more hours per term, Fall and Spring)
- FAFSA application submitted 60 days prior to the first day of class

**Phi Theta Kappa Scholarship** - \$500 one-time award in addition to any other eligible scholarships

- Transcript from prior community college with PTK membership identified

Award Process:

Once required admission documentation (official transcripts, etc.) and FAFSA application (if required) are received, students must accept the award online. Then, the scholarship with the highest monetary value for which they qualify will be applied to their accounts. The Phi Theta Kappa scholarship will be applied to your account when membership has been documented and your scholarship accepted via our website. Please send verification of membership directly to the scholarship office at [scholarships@wtamu.edu](mailto:scholarships@wtamu.edu).

Additional scholarships? You are encouraged to [apply directly to the Scholarship Office](#) for additional WT Foundation scholarships. These additional awards are not automatic and require an application before the listed deadline.

You must earn 30 WT credit hours, maintain a 3.0 cumulative WT GPA the first academic year at WT, and complete the FAFSA to be eligible for renewal of this scholarship. If you maintain this standard, your scholarship will be renewed for a second year. Once awarded, you will accept it online. Scholarships are divided equally between Fall and Spring terms. For consideration of departmental and donor scholarship funds, please complete the scholarship application each year prior to Feb. 1st. It is available online at [www.wtamu.edu/scholarships](http://www.wtamu.edu/scholarships).