

AS-T in MET/MRP

# Mechanical Engineering Technology

Complete basic background studies for transfer to a bachelor's degree program in engineering technology disciplines. Careers may be found in research, development, design, operations management, teaching, sales and consulting.

## Degree Requirements

- **Communications:**  
5 credits - ENGL& 101 English Composition I.
- **Quantitative/Symbolic Reasoning Skills:**  
15 credits – MATH& 151\* Calculus I, MATH& 152\* Calculus II, AND MATH& 153\* Calculus III OR MATH 210 Elements of Statistics.
- **Humanities/ Social Sciences:**  
15 credits – minimum 5 credits in Humanities AND minimum 5 credits in Social Science AND 5 additional credits in either Humanities or Social Science from the Distribution List.
- **Diversity:**  
5 credits – from the Diversity Course List. Courses that meet this requirement may also be used toward other graduation requirements. Diversity courses are listed in the quarterly schedule and identified by 'DIV' attached to the course title. Example: SOC& 101 – Introduction to Sociology:DIV.
- **Pre-Major Requirements:**  
36 credits
- **Electives:**  
20 credits minimum. Choose as appropriate for intended major and intended baccalaureate institution.

## Pre-Major Requirements (36 credits)

CHEM& 161*	General Chemistry w/Lab I	5
CS 170	Fundamentals of Computer Program	5
ENGL& 235	Technical Writing	5
ENGR& 121*	Engineering Graphics I	3
ENGR& 122*	Engineering Graphics II	3
<i>AND</i>		
PHYS& 114*	• General Physics I w/Lab	5
PHYS& 115*	• General Physics II w/Lab	5
PHYS& 116*	• General Physics III w/Lab	5
<i>OR</i>		
PHYS& 221*	• Engr Physics I w/Lab	5
PHYS& 222*	• Engr Physics II w/Lab	5
PHYS& 223*	• Engr Physics III w/Lab	5

## Electives

ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5
ENGR& 123*	Engineering Graphics III	5
ENGR& 214	Statics	5
ENGR& 215	Dynamics	5
ENGR& 225	Mechanics of Materials	5

MATH& 153*	Calculus III OR	5
MATH 210	Elements of Statistics	
CMST& 220 (was SPCH 110)	Public Speaking	5

\*It is recommended that sequence courses be completed at one institution.

(Physics 221, 222, 223 preferred)

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

*Total transferable credits required to earn this degree: 91 with a cumulative grade point average (GPA) of at least 2.0. A course cannot be credited toward more than one distribution or skill area.*

### **Students completing this program should acquire the following skills and abilities:**

- Apply knowledge of informatics, mathematics, science, and engineering.
- Design and conduct experiments and numerical simulations, analyze, and interpret general scientific and engineering information.
- Design a system, component, or process to meet desired needs.
- Communicate effectively.
- Understand the impact of engineering solutions in a social context.

***Revised April 2017 (Effective Fall 2017)***

# Planner

The distribution lists are in the LCC Catalog. If you are online, click on the links below:

**Diversity Course List**

**Distribution List**

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
<b>Total:</b>			<b>Total:</b>			<b>Total:</b>			<b>Total:</b>		

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
<b>Total:</b>			<b>Total:</b>			<b>Total:</b>			<b>Total:</b>		

**Notes:**

This degree is only applicable for students planning to attend Central Washington University, Eastern Washington University, or Western Washington University.

For this degree, specific grade requirements vary from course to course and among transfer institutions. The student will need to check with transfer advisors. It is your responsibility to check your baccalaureate institution's specific major requirements the year prior to transferring.

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor *and* with the college to which they plan to transfer for specific requirements. Consult the LCC catalog for LCC graduation requirements.