

# RECOMMENDED ACADEMIC PLAN – MECHANICAL ENGINEERING TECHNOLOGY

Semester I		Semester II	
ENGL 015 Rhetoric and Composition or 030 Honors Freshman Composition GWS	3	Humanities GH	3
<i>MATH 140 Calculus With Analytic Geometry I GQ</i>	4	Social and Behavioral Science GS	3
<i>CHEM 110 Chemical Principles and 111 Experimental Chemistry GN</i>	4	<i>PHYS 150 Technical Physics I GN or 211 General Physics: Mechanics GN</i>	3 - 4
EDSGN 100 Introduction to Engineering Design	3	CAS 100 Effective Speech GWS	3
First-Year Seminar	1	<i>STAT 200 Elementary Statistics GQ or MATH 141 Calculus with Analytic Geometry II GQ</i>	4
Health and Physical Activity	1.5		16 - 17
	16.5		
Semester III		Semester IV	
Social and Behavioral Science GS	3	<b>E MCH 212 Dynamics or MET 206 Dynamics and Machine Elements or ET 321 Dynamics</b>	3
<i>PHYS 151 Technical Physics II GN or 212 General Physics: Electricity and Magnetism GN</i>	3 - 4	<b>E MCH 213 Strength of Materials or MCH T 213 Strength and Properties of Materials or ET 322 Strength of Materials</b>	3
Arts GA	3	<i>ENGL 202C Effective Writing: Technical Writing GWS</i>	3
<b>E MCH 211 Statics or MCHT 111 Mechanics for Technology: Statics or ET 300 Mechanics I: Statics</b>	3	EET 101(3) Electrical Circuits I and 109(1) Electrical Circuits Laboratory I or	3-4
Humanities GH	3	EET 320(3) Industrial Electricity and Electronics	
	15- 16	**Elective	3
			15-16
Semester V		Semester VI	
IET 308 Statistical Quality Control	3	MET 321 Analytical Techniques	2
IET 311 Elements of Metallurgy or IET 101 Manufacturing Materials, Processes, and Laboratory	3	MET 358 Process Design Engineering	3
IET 321 Manufacturing Processes or IET 215 Production Design and 216 Production Design Laboratory	3-4	MET 365 Design of Machine Elements	3
<b>MET 332 Thermal Engineering A</b>	3	MET 438 Thermal Engineering B	3
<b>MET 336 Engineering Fluid Mechanics</b>	3	ET 323 Strength of Materials Laboratory or MCH T 214 Strength and Properties of Materials Laboratory	1
Health and Physical Education	1.5	Arts GA	3
	16.5- 17.5	**Elective	3
			18
Semester VII		Semester VIII	
I E 303 Engineering Economic Analysis	2	<b>ENGR 420Y Design for Global Society</b>	3
<b>MET 341 Mechanical Measurements and Instrumentation</b>	3	<b>MET 431 Heat Transfer</b>	3
MET 448 Mechanical Engineering Technology Laboratory B	2	MET 486 Project Design	3
MET 454 Automatic Controls	3	*300-400 level Technology or Engineering Elective	6
MET 481 Project Design	1		
*300-400 level Technology or Engineering Elective	3		
**Elective	3		
	17		15

## Advising Notes

- **Bold type** require a grade of C or better.
- *Italics* indicates courses that satisfy both major and General Education requirements.
- **Bold Italics** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- US, IL, and US;IL are codes used to designate courses that satisfy University United States/International Cultures requirements.
- Y, IL, and US is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.

**Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."**

\*Technology or Engineering electives including MET 308, MET 417, MET 432, MET 435, MET 462, ENVE430, or others offered by the program.

\*\*Electives as approved by the academic adviser.

This publication is not the official Bulletin of the University. The most up-to-date information can be found at [www.psu.edu/bulletins/bluebook](http://www.psu.edu/bulletins/bluebook).