

## BS in Mechanical Engineering - 2024-2025

Student Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

Engineering Core	uirements	Mechanical Engineering Requirements			
COS 130	3	Computational Problem Solving for Engineers	ENP 252	4	Engineering Systems
ENP 104	3	Introduction to Engineering and Software Tools	ENP 302	3	Mechanics of Materials
ENP 231	4	Introduction to Electric Circuits	ENP 303	3	Dynamics
ENP 301	3	Statics	ENP 355	3	Fluid Mechanics and Water Flow
ENP 332	4	Control Systems	ENP 357	3	Heat Transfer
ENP 351	3	Engineering Thermodynamics	ENP 359	2	Mechanical Engineering Laboratory
ENP 352	3	Materials Science			
ENP 392	3	Junior Engineering Project	Select <u>6</u> additional	l hours	s from the following:
ENP 393	2	Practicum	BIO 201	4	Biology I: Foundations of Cell Biology and Genetics
ENP 405	1	Engineering Ethics	BIO 203	4	Principles of Genetics
ENP 491	1	Review of the Fundamentals of Engineering	CHE 212	4	College Chemistry II
ENP 493	2	Engineering Senior Capstone I	COS 121	4	Foundations of Computer Science
ENP 494	3	Engineering Senior Capstone II	COS 230	3	Missions Technology
ENP 495	1	Engineering Senior Capstone III	ENP 261	3	Digital Systems Design
			ENP 360	1-4	Independent Study
			ENP 370	1-4	Selected Topics
Science and Matl	re Requirements	ENP 386	3	Shop Machining and Fabrication	
CHE 211	4	College Chemistry I	ENP 450	1-4	Directed Research
MAT 151	4	Calculus I	ENS 241	4	Physical Geology
MAT 230	4	Calculus II	MAT 345	4	Linear Algebra
MAT 240	4	Calculus III	BIO	1-10	Any 300/400 electives not used in major
MAT 251	4	Differential Equations	CHE	_ 1-10	Any 300/400 electives not used in major
PHY 211	5	University Physics I	COS	_ 1-10	Any 300/400 electives not used in major
PHY 212	5	University Physics II	ENP	1-10	Any 300/400 electives not used in major
PHY 341	3	Math Methods in Physics and Engineering	ENS	1-10	Any 300/400 electives not used in major
Salaat ana aguraa	the following:	MAT	_ 1-10	Any <sup><math>t</math></sup> 300/400 electives not used in major	
Select <u>one</u> course	110111	Interioritowing.	PHY	1-10	Any 300/400 electives not used in major
MAT 252	4	Mathematical Statistics	SYS	1-10	Any 300/400 electives not used in major
WAT 552	4	Mathematical Statistics	4		
			'Excluding MAT 301,	302, 3	809
Additional Core	2001	irements			
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## ECO 201 3 Principles of Microeconomics

SYS 330	3	Human Relations in Organizations
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## **Total Major Hours Required: 103**

\_\_\_\_\_ Participation in a weekend retreat for all students in the department.

## Degree Requirements

- 128 minimum hours and 42 minimum upper-division hours (3XX/4XX course numbers).
- Fifty percent of the minimum hours must be completed at Taylor-64 hours.
- Fifty percent of the major/minor hours must be completed at Taylor.
- 22 of the last 30 hours earned must be completed at Taylor.
- Cumulative GPA of 2.0; major GPA of 2.3 (higher GPA may be required in certain curricula). (See current catalog for policy).
- All general education, major, minor, and proficiency requirements must be completed (including Senior Comprehensive Exam/Paper/Project).
- Two years of one foreign language is required for the BA degree.
- Candidates for 2 degrees must complete a minimum of 158 semester hours and meet all requirements for 2 different majors.