

Name_	
Student ID	
Date	

## 2025-26 Bachelor of Science in Mechanical Engineering Checklist

TRANSFORMATIONAL JOURNEY PROGRAM (TJP) First Year Experience (3 credits)FYS 110 First Year Seminar  Faith and Ethics (9 credits)THL 105 Introduction to TheologyPHL 130 Human Nature & PersonSecond THL*	MAT 231 Calculus II MAT 305 Calculus III EGR 210 Engineering Computation and Modeling CHE 140 General Chemistry I CHE 141L General Chemistry I Lab	4 4 4 3 3 1 4
Scientific Problem Solving Fulfilled by major requirements  Quantitative Problem Solving Fulfilled by major requirements  Civics Problem Solving Fulfilled by major requirements (EGR 317)  Communication (6 credits) ENG 112 Writing and Community  COM 101 Public Speaking	Engineering Core Requirements (24 hours)  EGR 101 Introduction to Engineering  EGR 151 Programming for Engineers  EGR 156 Intro Computer Aided Design  EGR 221 Engineering Mechanics: Statics  EGR 242 Linear Circuit Analysis  EGR 301 Global Engineering  EGR 317 Engineering Economics  EGR 491 Engineering Senior Design	3 3 3 3 3 3 3 3 3
Cultural and Global Awareness (6 credits)  World Language (determined by placement) One of the following courses: GLS 101 Global Perspectives HUM 210 Meaning Through Culture  Health and Well-Being (6 credits) HWB 110 Holistic Health: Mind, Body, and Spirit One of the following courses: PSY 101 General Psychology PSY 220 Human Growth and Development SOC 101 Introduction to Sociology  Broad Integrative Knowledge Outside Major** a. Completion of a minor b. Completion of a second major c. Completion of a Pathway  *Please refer to catalog or MUHUB Progress tab for a complete list of courses that meet these requirements.  **Please refer to catalog or MUHUB Progress tab for a description of acceptable major/minor options.	EGR 226 Mechanics of Materials EGR 230 Engineering Materials EGR 261 Engineering Thermodynamics EGR 326 Engineering Statistics EGR 365 Fluid Mechanics EGR 451 Control Systems MEN 320 Dynamic Systems MEN 337 Design of Mechanisms MEN 362 Heat Transfer MEN 401 Machine Design and Manufacturing MEN 440 Mechanical Engineering Lab I MEN 441 Mechanical Engineering Lab II MEN 492 Senior Design II Mechanical Engineering Elective Mechanical Engineering Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3



## 2025-26 Bachelor of Science in Mechanical Engineering Sample Four-Year Plan

Year One									
Fall Semester			Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Gen Math & Sci: Calculus I	MAT 230	4	Gen Math & Sci: Calculus II	MAT 231	4				
CORE: Intro Engineering	EGR 101	3	Gen Math & Sci: University Physics I	PHY 201	4				
CORE: Programming for Engineers	EGR 151	3	Gen Math & Sci: Gen Chem I	CHE 140	3				
TJP: First Year Seminar	FYS 110	3	Gen Math & Sci: Gen Chem I Lab	CHE 141L	1				
TJP: Public Speaking	COM 101	3	CORE: Intro Computer Aided Design	EGR 156	3				
			TJP: Holistic Health	HWB 110	3				
Semester Hours	16		Semester Hours		18				
Cumulative Hours	16		Cumulative Hours	34					
Year Two									
Fall Semester			Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Gen Math & Sci: Calculus III	MAT 305	4	Gen Math & Sci: Comp & Modeling	EGR 210	3				
Gen Math & Sci: University Physics II	PHY 202	4	CORE: Lin Circuit Analysis	EGR 242	3				
CORE: Engr Mechanics: Statics	EGR 221	3	MAJ: Engr Mechanics: Dynamics	EGR 222	3				
MAJ: Thermodynamics	EGR 261	3	MAJ: Mechanics of Materials	EGR 226	3				
TJP: Writing and Community	ENG 112	3	MAJ: Engineering Materials	EGR 230	3				
			TJP: Human Nature & Person	PHL 130	3				
Semester Hours		17	Semester Hours	18					
Cumulative Hours		51	Cumulative Hours		69				
		Year 7	Three						
Fall Semes	ter		Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
CORE: Global Engineering	EGR 301	3	CORE: Engineering Economics	EGR 317	3				
TJP: Intro Theology	THL 105	3	MAJ: Engr Statistics	EGR 326	3				
TJP: World Language	World Lang.	3	MAJ: Dynamic Systems	MEN 320	3				
MAJ: Design of Mechanisms	MEN 337	3	MAJ: Mechanical Engineering Lab I	MEN 440	1				
MAJ: Fluid Mechanics	EGR 365	3	MAJ: Heat Transfer	MEN 362	3				
			TJP: Health & Well-Being	PSY/SOC	3				
Semester Hours		15	Semester Hours	16					
<b>Cumulative Hours</b>		84	Cumulative Hours		100				
		Year	Four						
Fall Semes	Fall Semester		Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
CORE: Senior Design I	EGR 491	3	MAJ: Senior Design II	MEN 492	3				
MAJ: Machine Des & Manuf.	MEN 401	3	MAJ: MEN Program Elective	MEN XXX	3				
MAJ: Mechanical Engineering Lab II	MEN 441	1	MAJ: MEN Program Elective	MEN XXX	3				
MAJ: Control Systems	EGR 451	3	TJP: Faith & Ethics #2	2 <sup>nd</sup> THL	3				
MAJ: MEN Program Elective	MEN XXX	3							
TJP: Cultural/Global	HUM/GLS	3							
Semester Hours		16	Semester Hours		12				
Cumulative Hours		116	Cumulative Hours		128				

<sup>\*</sup>A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA.

This plan is only a sample and will vary by student and course availability.

WSOE-MEN (JDC) Date: 5/8/25