

Name _____

Student ID _____

Date _____

2026-27 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 Theology

____ PHL 130 Human Nature & Person

____ Second THL*

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

Cultural and Global Awareness (6 credits)

____ World Language (determined by placement)

One of the following courses:

____ GLS 101 Global Perspectives, ARH 235 Global Art History I, GLS 220 Global Humanities, HUM 210 Search of Meaning Through Culture, MUS 140 Global Music, THE 112 Global Traditions in Theater

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**

- Completion of a minor
- Completion of a second major
- Completion of a Pathway

*Please refer to the catalog or MUHUB Progress tab for a complete list of courses that meet these requirements.

**Please refer to the catalog or MUHUB Progress tab for a description of acceptable major/minor options.

General Math and Science Requirements (30 hours)

____ MAT 230 Calculus I 4

____ MAT 231 Calculus II 4

____ MAT 305 Calculus III 4

____ EGR 210 Engineering Computation and Modeling 3

____ EGR 326 Engineering Statistics 3

____ CHE 140 General Chemistry I 3

____ CHE 141L General Chemistry I Lab 1

____ PHY 201 University Physics I 4

____ PHY 202 University Physics II 4

Engineering Core Requirements (18 hours)

____ EGR 101 Introduction to Engineering 3

____ EGR 151 Programming for Engineers 3

____ EGR 156 Intro to Computer Aided Design 3

____ EGR 301 Global Engineering 3

____ EGR 317 Engineering Economics 3

____ EGR 491 Senior Design 3

Mechanical Engineering Requirements (50 hours)

____ EGR 221 Engineering Mechanics: Statics 3

____ EGR 222 Engineering Mechanics: Dynamics 3

____ EGR 226 Mechanics of Materials 3

____ EGR 230 Engineering Materials 3

____ EGR 242 Linear Circuit Analysis 3

____ EGR 261 Engineering Thermodynamics 3

____ EGR 365 Fluid Mechanics 3

____ EGR 366 Heat Transfer 3

____ EGR 440 Thermo-Fluids Laboratory 1

____ EGR 451 Control Systems 3

____ MEN 320 Dynamic Systems 3

____ MEN 337 Design of Mechanisms 3

____ MEN 401 Machine Design and Manufacturing 3

____ MEN 441 Mechanical Engineering Lab II 1

____ MEN 492 Senior Design II 3

____ Mechanical Engineering Elective 3

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Total Earned Hours 128

A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation. A grade of "C-" or better is required on all prerequisites to engineering courses to make progress towards your degree.

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2026-27 Bachelor of Science in Mechanical Engineering Sample Four-Year Plan

This plan is only a sample and will vary by student and course availability. Depending on your minor, some courses listed without a minimum grade requirement may still have one for the minor.

Year One							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hrs	Min. Grade	Requirement Category	Course	Credit Hrs	Min. Grade
Gen Math & Sci: Calculus I	MAT 230	4		Gen Math & Sci: Calculus II	MAT 231	4	C-
CORE: Intro to Engineering	EGR 101	3		Gen Math & Sci: University Physics I	PHY 201	4	C-
CORE: Programming for Engineers	EGR 151	3		Gen Math & Sci: Gen Chem I	CHE 140	3	C-
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	Min. Grade	Requirement Category	Course	Credit Hrs	Min. Grade
Gen Math & Sci: Calculus III	MAT 305	4	C-	Gen Math & Sci: Comp & Modeling	EGR 210	3	C-
Gen Math & Sci: University Physics II	PHY 202	4	C-	MAJ: Lin Circuit Analysis	EGR 242	3	
MAJ: Engr Mechanics: Statics	EGR 221	3	C-	MAJ: Engr Mechanics: Dynamics	EGR 222	3	C-
MAJ: Thermodynamics	EGR 261	3	C-	MAJ: Mechanics of Materials	EGR 226	3	C-
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 Three							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hrs	Min. Grade	Requirement Category	Course	Credit Hrs	Min. Grade
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		3		MAJ: Dynamic Systems	MEN 320	3	C-
MAJ: Design of Mechanisms	MEN 337	3	C-	MAJ: Thermo-Fluids Laboratory	EGR 440	1	
MAJ: Fluid Mechanics	EGR 365	3	C-	MAJ: Heat Transfer	EGR 366	3	
				TJP: Health & Well-Being	PSY/SOC	3	
Semester Hours	15			Semester Hours	16		
Cumulative Hours	84			Cumulative Hours	100		
Year Four							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hrs	Min. Grade	Requirement Category	Course	Credit Hrs	Min. Grade
CORE: Senior Design	EGR 491	3	C-	MAJ: Senior Design II	MEN 492	3	C-
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 nd 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		