

2026-27 Bachelor of Science Civil 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

____ 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**

- Completion of a minor
- Completion of a second major
- 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.

General Math and Science Requirements (33 hours)

____ MAT 230 Calculus I 4

____ MAT 231 Calculus II 4

____ MAT 305 Calculus III 4

____ EGR 210 Engineering Computation and Model 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

____ SCI/BIO XXX Science Elective 3

Engineering Core Requirements (18 hours)

____ EGR 101 Introduction to Engineering 3

____ EGR 151 Programming for Engineers 3

____ EGR 156 Intro Computer Aided Design 3

____ EGR 301 Global Engineering 3

____ EGR 317 Engineering Economics 3

____ EGR 491 Senior Design 3

Civil Engineering Major Requirements (48 hours)

____ EGR 221 Engineering Mechanics: Statics 3

____ EGR 222 Engineering Mechanics: Dynamics 3

____ EGR 226 Mechanics of Materials 3

____ EGR 365 Fluid Mechanics 3

____ CVE 301 Surveying with Lab 3

____ CVE 327 Civil Engineering Materials 3

____ CVE 338 Soil Mechanics 3

____ CVE 331 Structural Analysis 3

____ CVE 332 Hydraulic Engineering 3

____ CVE 430 Reinforced Concrete Design 3

____ CVE 311 Environmental Engineering 3

____ CVE 445 Foundation Engineering 3

____ CVE 492 Senior Design II 3

____ CVE/EGR 4XX Engineering Elective I 3

____ CVE/EGR 4XX Engineering Elective II 3

____ CVE/EGR 4XX Engineering Elective III 3

Total Earned Hours 129

MARIAN UNIVERSITY

Indianapolis®

2026-27 Bachelor of Science Civil Engineering Major Sample Four-Year Plan

		Year One					
Fall Semester				Spring Semester			
Requirement Category	Course	Crd Hrs	Min Gr.	Requirement Category	Course	Crd Hrs	Min Gr.
Gen Math & Sci: Calculus I	MAT 230	4	C-	Gen Math & Sci: Calculus II	MAT 231	4	C-
CORE-Intro Engineering	EGR 101	3		Gen Math & Sci: Univ Physics I	PHY 201	4	C-
CORE-Egr Programming	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: Intro Theology	THL 105	3		CORE- Comp 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	Crd Hrs	Min Gr.	Requirement Category	Course	Crd Hrs	Min Gr.
Gen Math & Sci: Calculus III	MAT 305	4	C-	Engineering Comput. and Model	EGR 210	3	C-
Gen Math & Sci: Univ Physics II	PHY 202	4		MAJ: Engr Mechanics: Dynamics	EGR 222	3	
CORE-Engr Mechanics: Statics	EGR 221	3	C-	MAJ: Mechanics of Materials	EGR 226	3	C-
MAJ: Surveying with Lab	CVE 301	3		MAJ: Science Elective (non-CHE or PHY)	SCI XXX BIO XXX	3	
TJP: Writing and Community	ENG 112	3		CORE: Engineering Economics	EGR 317	3	
				TJP: Public Speaking	COM 101	3	
Semester Hours	17			Semester Hours	18		
Cumulative Hours	51			Cumulative Hours	69		
		Year Three					
Fall Semester				Spring Semester			
Requirement Category	Course	Crd Hrs	Min Gr.	Requirement Category	Course	Crd Hrs	Min Gr.
CORE-Global Engineering	EGR 301	3		Engineering Statistics	EGR 326	3	
MAJ: Environmental Engineering	CVE 311	3		MAJ: Soil Mechanics	CVE 338	3	C-
MAJ: Fluid Mechanics	EGR 365	3	C-	MAJ: Hydraulic Engineering	CVE 332	3	
MAJ: Civil Engineering Materials	CVE 327	3		MAJ: Reinforced Concrete Design	CVE 430	3	
MAJ: Structural Analysis	CVE 331	3	C-	MAJ: Program Elective I	CVE/EGR 4XX	3	
Semester Hours	15			Semester Hours	15		
Cumulative Hours	84			Cumulative Hours	99		
		Year Four					
Fall Semester				Spring Semester			
Requirement Category	Course	Crd Hrs	Min Gr.	Requirement Category	Course	Crd Hrs	Min Gr.
TJP: Cultural/Global	HUM/GLS	3		TJP: Faith & Ethics #2	2 nd THL	3	
TJP: World Language	World Lang.	3		TJP: Health & Well-Being	PSY/SOC	3	
CORE: Senior Design	EGR 491	3	C-	TJP: Human Nature & Person	PHL 130	3	
MAJ: Foundation Engineering	CVE 445	3		MAJ: Senior Design II	CVE 492	3	
MAJ: Program Elective II	CVE/EGR 4XX	3		MAJ: Program Elective III	CVE/EGR 4XX	3	
Semester Hours	15			Semester Hours	15		
Cumulative Hours	114			Cumulative Hours	129		

*A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation. 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. Depending on your minor, some courses listed without a minimum grade requirement may still have one for the minor.