## MARIAN UNIVERSITY —— Indianapolis ——— ®

Name	

Student ID\_\_\_\_\_ Date\_\_\_\_\_

2022-23 Civil Engineering Checklist

TRANSFORMATIONAL JOURNEY PROGRAM (TJP)         First Year Experience (3 credits)        FYS110 First Year Seminar         Faith and Ethics (9 credits)        THL105 Introduction to Theology        PHL130 Human Nature & Person        Second THL*         Scientific Problem Solving         Fulfilled by major requirements	General Math and Science Requirements (30 hours)MAT 230 Calculus I4MAT 231 Calculus II4MAT 305 Calculus III4MAT 310 Linear Algebra3MAT 315 Differential Equations3CHE 140 General Chemistry I3CHE 141L General Chemistry I Lab1PHY 201 University Physics I4PHY 202 University Physics II4
Quantitative Problem Solving         Fulfilled by major requirements         Civics Problem Solving         Fulfilled by major requirements (EGR 317)         Communication (6 credits)        ENG112 Writing and Community        COM101 Public Speaking	Engineering Core Requirements (27 hours)EGR 101 Introduction to Engineering3EGR 151 Programming for Engineers3EGR 155 Intro Computer Aided Design3EGR 221Engineering Mechanics: Statics3EGR 241 Linear Circuit Analysis3EGR 301 Global Engineering3EGR 317 Engineering Economics3EGR 490 Engineering Senior Design3
Cultural and Global Awareness (6 credits)World Language (determined by placement) One of the following courses:GLS101 Global PerspectivesHUM210 Meaning Through Culture Health and Well-Being (6 credits)HWB110 Holistic Health: Mind, Body, and Spirit One of the following courses:PSY101 General PsychologyPSY220 Human Growth and DevelopmentSOC101 Introduction to Sociology Broad Integrative Knowledge Outside Major**	Civil Engineering Major Requirements (45 hours)SCI XXX Science Elective (Non CHE or PHY)3EGR 222 Engineering Mechanics: Dynamics3EGR 226 Mechanics of Materials3EGR 326 Engineering Statistics3EGR 365 Fluid Mechanics3CVE 301 Surveying with Lab3CVE 327 Civil Engineering Materials3CVE 328 Structural Design I: Steel and Concrete3CVE 338 Soil Mechanics3CVE 330 Analysis of Structures with Lab OR CVE 332 Hydraulics with Lab)3CVE 411 Environmental Engineering3
<ul> <li>Broad Integrative Knowledge Outside Major** <ul> <li>a. Completion of a minor</li> <li>b. Completion of a second major</li> <li>c. Completion of a Pathway</li> </ul> </li> <li>*Please refer to catalog or MUHUB Progress tab for a complete list of courses that meet these requirements.</li> <li>**Please refer to catalog or MUHUB Progress tab for a description of acceptable major/minor options.</li> </ul>	CVE 411 Environmental Engineering       3        CVE 492 Senior Design Project II       3        CVE 4XX Civil Engineering Elective II       3        CVE 4XX Civil Engineering Elective III       3        CVE 4XX Civil Engineering Elective IV       3

## MARIAN UNIVERSITY - Indianapolis ——— ®

## 2022-23 B.S. Civil Engineering Major Sample Four-Year Plan

		Year	One			
Fall Semester			Spring Semester			
Requirement Category	Course	Crd Hrs	Requirement Category	Course	Crd 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: Univ Physics I	PHY 201	4	
CORE-Egr Programming	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: Intro Theology	THL 105	3	CORE- Comp Aided Design	EGR 155	3	
		_	TJP: Holistic Health	HWB 110	3	
Semester Hours	16		Semester Hours		18	
Cumulative Hours	16		Cumulative Hours	34		
		Year		I		
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: Differential Eqns	MAT 315	3	
Gen Math & Sci: Univ Physics II	PHY 202	4	CORE- Lin Circuit Analysis	EGR 241	3	
CORE-Engr Mechanics: Statics	EGR 221	3	MAJ: Engr Mechanics: Dynamics	EGR 222	3	
CORE-Thermodynamics	EGR 261	3	MAJ: Mechanics of Materials	EGR 226	3	
TJP: Writing and Community	ENG 112	3	MAJ: Science Elective (non-CHE or PHY)	SCI xxx	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	Requirement Category	Course	Credit Hrs	
Gen Math & Sci: Linear Algebra	MAT 310	3	TJP: Health & Well-Being	PSY/SOC	3	
TJP: Public Speaking	COM 101	3	CORE-Global Engineering	EGR 301	3	
MAJ: Surveying w/Lab	CVE 301	3	MAJ: Soil Mechanics w/Lab	CVE 338	3	
MAJ: Fluid Mechanics	EGR 365	3	MAJ: Civil Engineering Elective	CVE 330 OR CVE 332	3	
NAAL Civil Excise anise Matterials	0/5 227	2	(Analysis Structures or Hydraulics)		2	
MAJ: Civil Engineering Materials	CVE 327	3	MAJ: Engineering Statistics	EGR 326	3	
Semester Hours		15	Semester Hours Cumulative Hours	15		
Cumulative Hours		84 Voar			99	
Fall Semester			Four Spring Semester			
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs	
TJP: Cultural/Global	HUM/GLS	3	TJP: Faith & Ethics #2	2 <sup>nd</sup> THL	3	
TJP: World Language	World Lang.	3	CORE: Engineering Economics	EGR 317	3	
CORE: Senior Design I	EGR 490	3	MAJ: Senior Design II	CVE 492	3	
MAJ: Environmental EGR w/ Lab	CVE411	3	MAJ: CVE Program Elective III	CVE 452 CVE 4xx	3	
MAJ: CVE Program Elective II	CVE 4xx	3	MAJ: CVE Program Elective IV	CVE 4xx	3	
MAJ: Struct Design I-Steel/Concrete	CVE 328	3				
Semester Hours	012 020	18	Semester Hours		15	
Semester Hours			Semester Hours15Cumulative Hours132			

\*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.