

Name _____

Student ID _____

Date _____

2022-23 Civil Engineering Checklist

GENERAL EDUCATION (30 hours)

I. Faith and Ethics (12 hours)

- ___ THL 105 Intro to Theology
- ___ PHL 130 Human Nature and the Person
- ___ FYS 110 First Year Seminar
- ___ THL 3XX Engineering Ethics

II. Health and Well-Being (6 hours)

- ___ PSY 220 Human Development or
SOC 101 Intro to Sociology
- ___ Health & Well-being in Practice I
- ___ Health & Well-being in Practice II
- ___ Health & Well-being in Practice III

III. Problem Solving

Fulfilled by major requirements

IV. Cultural and Global Awareness (6 hours)

- ___ HIS 102 History of the Modern World or
GLS 101 Global Perspectives
- ___ Language Course OR
HUM 210 Search for Meaning Through Culture

V. Communication (6 hours)

- ___ ENG 112 Writing and Community
OR ENG 1XX Transformational Texts
- ___ COM 101 Public Speaking
- **Writing Intensive Course within the major*
- *Public Speaking Intensive Course within the major*

VI. Disciplinary Knowledge and Skills

- ___ Pathway or Minor

Total Earned General Education Hours

_____ 30 without minor or pathway _____

General Math and Science Requirements (30 hours)

___ MAT 230 Calculus I	4
___ MAT 231 Calculus II	4
___ MAT 305 Calculus III	4
___ MAT 310 Linear Algebra	3
___ MAT 315 Differential Equations	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 (27 hours)

___ EGR 101 Introduction to Engineering	3
___ EGR 151 Programming for Engineers	3
___ EGR 155 Intro Computer Aided Design	3
___ EGR 221 Engineering Mechanics: Statics	3
___ EGR 241 Linear Circuit Analysis	3
___ EGR 261 Engineering Thermodynamics	3
___ *EGR 301 Global Engineering	3
___ EGR 317 Engineering Economics	3
___ EGR 490 Engineering Senior Design	3

Civil Engineering Major Requirements (45 hours)

___ SCI XXX Science Elective (Non CHE or PHY)	3
___ EGR 222 Engineering Mechanics: Dynamics	3
___ EGR 226 Mechanics of Materials	3
___ EGR 326 Engineering Statistics	3
___ EGR 365 Fluid Mechanics	3
___ CVE 3XX Surveying with Lab	3
___ CVE 330 Civil Engineering Materials	3
___ CVE 3XX Soil Mechanics	3
___ CVE 3XX Structural Design I: Steel and Concrete	3
___ CVE 3XX Civil Engineering Elective I	3
(Analysis of Structures with Lab OR Hydraulics with Lab)	
___ CVE 4XX Environmental Engineering	3
___ CVE 4XX 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

Total Earned Hours 132

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
Gen Ed: Faith & Ethics	FYS 110	3	Gen Math & Sci: Gen Chem I Lab	CHE 141L	1
Gen Ed: Faith & Ethics	THL 105	3	CORE- Comp Aided Design	EGR 155	3
			Gen Ed: Writing	ENG 112	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: Differential Eqns	MAT 315	3
Gen Math & Sci: Univ Physics II	PHY 202	4	CORE- Lin Circuit Analysis	EGR 241	3
CORE-Engr Mechanics	EGR 221	3	MAJ: Engineering Dynamics	EGR 222	3
CORE-Thermodynamics	EGR 261	3	MAJ: Mechanics of Materials	EGR 226	3
Gen Ed: Faith & Ethics	PHL 130	3	MAJ: Science Elective (non-CHE or PHY)	SCI xxx	3
			Gen Ed: Health & Well-Being	HWB XXX	1
Semester Hours		17	Semester Hours		16
Cumulative Hours		51	Cumulative Hours		67
Year Three					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs
Gen Math & Sci: Linear Algebra	MAT 310	3	Gen Ed: Health/Well Being	PSY/SOC	3
Gen Ed: Health & Well-Being	HWB XXX	1	CORE-Global Engineering	EGR 301	3
Gen Ed: Public Speaking	COM 101	3	MAJ: Soil Mechanics w/Lab	CVE 3xx	3
MAJ: Surveying w/Lab	CVE 3XX	3	MAJ: Struct Design I-Steel/Concrete	CVE 3xx	3
MAJ: Fluid Mechanics	EGR 365	3	MAJ: Engineering Statistics	EGR 326	3
MAJ: Civil Engineering Materials	CVE 330	3	MAJ: Civil Engineering Elective (Analysis Structures or Hydraulics)	CVE 3XX OR CVE 3XX	3
Semester Hours		16	Semester Hours		18
Cumulative Hours		83	Cumulative Hours		101
Year Four					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs
Gen Ed: Cult Global	HIS/HUM	3	Gen Ed: Faith & Ethics-Engr Ethics	THL 3xx	3
Gen Ed: Health & Well-Being	HWB XXX	1	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	CVE4xx	3	MAJ: CVE Program Elective III	CVE 4xx	3
MAJ: CVE Program Elective II	CVE 4xx	3	MAJ: CVE Program Elective IV	CVE 4xx	3
Gen Ed: Cult/Global	HIS/HUM	3			
Semester Hours		16	Semester Hours		15
Cumulative Hours		117	Cumulative Hours		132

*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.