



Bachelor of Science

Major: Civil Engineering

2022-2023 Sample 4-Year Plan

Total Degree Requirements: 130 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA _____ Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 106	Elementary Surveying	p. MATH 115 or MATH 120	3		
CEE 106L	Elementary Surveying Lab	CEE 106 Co-requisite	1		
CHEM 112	General Chemistry I	p. MATH 114 or higher	3		
CHEM 112L	General Chemistry I lab	CHEM 112 Co-requisite	1		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
GE 101	Introduction to Engineering and Technical Professions		1		
MATH 123	Calculus I (SGR #5)	p. MATH 115 or MATH 120 or Placement, earn C or better	4		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 101	Introduction to Civil Engineering	Majors only	1		
CHEM 114	General Chemistry II	p. CHEM 112 and MATH 114 or higher	3		
ENGL 201***	Composition II (SGR #1)	p. ENGL 101	3		
MATH 125	Calculus II	p. MATH 123, earn C or better	4		
SGR #3	Social Science/Diversity (SGR #3)		3		
CMST 101	Fundamentals of Speech (SGR #2)		3		
Total Credit Hours			17		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 282	Civil Engineering Computer Aided Design	p. CEE 101 and CEE 106L	3		
EM 214	Statics	p. MATH 123	3		
MATH 225	Calculus III	p. MATH 125	4		
PHYS 211/L	University Physics I and Lab (SGR #6)	p. MATH 123	4		
SGR #4	Arts & Humanities/Diversity (SGR #4)		3		
Total Credit Hours			17		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 216	Civil Engineering Materials	p. CHEM 112, Spring Only	2		
CEE 216L	Civil Engineering Materials Lab	CEE 216 Co-requisite	1		
CEE 225	Principles of Environmental Science and Engineering	p. CHEM 106 or 114	3		
EM 215	Dynamics	p. EM 214	3		
MATH 321	Differential Equations	p. MATH 125	3		
PHYS 213/L	University Physics II and Lab (SGR #6)	p. PHYS 211/L	4		
Total Credit Hours			16		



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 311	Structural Materials Lab	p. CEE 216 and 216L, EM 321 Co-requisite, Fall only	1		
EM 331	Fluid Mechanics	p. EM 215, Fall only	3		
CEE 331	Fluid Mechanics Lab	EM 331 Co-requisite, Fall only	1		
CEE 340/L	Engineering Geology and Lab	p. CEE 216 and 216L, Fall only	3		
EM 321	Mechanics of Materials	p. EM 214	3		
STAT 381	Intro to Probability and Statistics	p. MATH 125	3		
SGR #4	Arts & Humanities/Diversity (SGR #4)		3		
Total Credit Hours			17		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 323	Water Supply and Wastewater Engineering	p. CEE 225, Spring only	3		
CEE 346/L	Geotechnical Engineering and Lab	p. EM 321, Spring only	4		
CEE 353	Structural Theory	p. EM 321, Spring only	3		
CEE 363	Highway and Traffic Engineering	p. CEE 106, Spring only	3		
CEE 432	Hydraulic Engineering	p. EM 331, Spring only	3		
Total Credit Hours			16		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 456	Concrete Theory and Design	p. CEE 353, Fall only	3		
CEE 464	Capstone Design I	Senior Standing, Fall only	1		
CEE 482	Engineering Administration	Senior Standing, Fall only	3		
CEE 488	Professional Seminar	Senior Standing, Fall only	1		
CEE	Technical Elective	See advisor for approved list	3		
CEE	Technical Elective	See advisor for approved list	3		
CEE	Technical Elective	See advisor for approved list	3		
Total Credit Hours			17		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CEE 455	Steel Design	p. CEE 353, Spring only	3		
CEE 465	Capstone Design II	p. CEE 464, Spring only	2		
CEE	Technical Elective	See advisor for approved list	3		
CEE	Technical Elective	See advisor for approved list	3		
SGR #3	Social Science/Diversity (SGR #3)		3		
Total Credit Hours			14		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).

***ENGL 277 Technical Writing in Engineering may be taken instead.

- Students must earn a combined average “C” or better in all CEE courses
- Students must earn a combined average “C” or better in all EM courses
- Students must earn a combined average “C” or better in MATH 123, MATH 125, MATH 225, MATH 321, and STAT 381
- Students must take the Fundamentals of Engineering examination prior to graduation