

Civil Engineering Sample Schedule	Credit Hours	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8
Subjects Required by all Programs (55 hours)									
MATH 115, 116, 215, 216	16	4	4	4	4	-	-	-	-
ENGR 100, Intro to Engineering	4	4	-	-	-	-	-	-	-
ENGR 101, Intro to Computers	4	-	4	-	-	-	-	-	-
CHEM 130 & 125/126 or CHEM 210 and 211 ¹	5	5	-	-	-	-	-	-	-
PHYSICS 140 with Lab 141 ²	5	-	5	-	-	-	-	-	-
PHYSICS 240 with Lab 241 ²	5	-	-	5	-	-	-	-	-
Intellectual Breadth (includes ECON 101 or 102)	16	4	4	-	4	-	-	-	4
Mathematical Methods (7 hours) +									
CEE 303, Computational Methods	4	-	-	-	-	-	4	-	-
CEE 373, Statistical Methods	3	-	-	-	-	3	-	-	-
Required Program Subjects (22 hours) ³ +									
CEE 200, Intro to Civil & Environmental Engineering	1	-	-	-	1	-	-	-	-
CEE 211, Statics and Dynamics	4	-	-	4	-	-	-	-	-
CEE 212, Solid and Structural Mechanics	3	-	-	-	3	-	-	-	-
CEE 230, Thermodynamics and the Environment or CEE 375, Sensors and Circuits	3	-	-	3 or 3	-	-	-	-	-
CEE 265, Sustainable Engineering Principles	3	-	-	3 or 3	-	-	-	-	-
CEE 325, Fluid Mechanics	4	-	-	-	-	4	-	-	-
CEE 402, Professional Issues & Design ⁸	4	-	-	-	-	-	-	-	4
Science Elective (3 hours) +									
Biology 171 or 172	3	-	-	-	-	-	-	3	-
EARTH 119, 201, 222, 284, or 320									
CEE 482/582, Environmental Microbiology									
Program Electives (20 hours) ⁴ +									
CEE 312, Structural Engineering	20	-	-	-	-	8	8	4	-
CEE 331, Construction Management									
CEE 345, Geotechnical Engineering									
CEE 351, Civil Engineering Materials									
CEE 365, Environmental Engineering Principles									
CEE 421, Hydrology and Floodplain Hydraulics									
CEE 450, Transportation Engineering									
Technical Electives (9 hours) ^{5,6,7} +									
Construction: CEE 435*, CEE 531, CEE 534*, CEE 537 Environmental: CEE 465, CEE 480*, CEE 563*, CEE 567 Geotechnical: CEE 540, CEE 545*, CEE 546*, CEE 548 Hazards, Risk, & Resilience: CEE 501.076 Hydraulics/Hydrology: CEE 428*, CEE 521, CEE 526*, CEE 527* Infrastructure Systems: CEE 575* Materials: CEE 547* Structures: CEE 412, CEE 413*, CEE 415* Transportation: CEE 551*, CEE 552	9	-	-	-	-	-	-	3	6
General Electives (12 hours)	12	-	-	-	-	-	3	6	3
Total	128	17	17	16	15	15	15	16	17

Notes: Courses offered only in the Fall term are purple. Courses offered only in the Winter term are green.

(+) Civil Engineering students must earn a C- or better in all courses whose categories are marked with a plus.

¹- If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams, or transfer credit from another institution for CHEM 130/125/126, you will have met the Chemistry Core Requirement

²- If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams, or transfer credit from another institution for PHYSICS 140/141 and 240/241, you will have met the Physics Core

³- CEE may accept equivalent courses offered by other departments in the College of Engineering, with permission from the program advisor.

⁴- At least five of the seven program electives are required.

⁵- A sixth program elective may count as a technical elective.

⁶- At least one of the three technical electives must be a design course (design courses are marked with an *).

⁷- CEE may accept study abroad courses as a technical elective with prior approval of the department.

⁸- CEE 402 must be taken in the last Winter semester.

Civil Engineering BSE			
Subject	Prerequisite(s)	Must Be Taken Before	Term(s) Offered
College Requirements			
MATH 115		MATH 116, PHYSICS 140	Fall, Winter, Spring, Summer
MATH 116	MATH 115	MATH 215, 216; PHYSICS 240; CEE 230, CEE 265	Fall, Winter, Spring, Summer
MATH 215	MATH 116	CEE 373, CEE 450	Fall, Winter, Spring, Summer
MATH 216	MATH 116	CEE 303, CEE 373, CEE 412	Fall, Winter, Spring, Summer
ENGR 100			Fall, Winter
ENGR 101	Prior or concurrent enrollment in MATH 115	CEE 303	Fall, Winter
CHEM 130		CEE 230, CEE 265	Fall, Winter, Spring
CHEM 125/126		CEE 230	Fall, Winter, Spring
PHYSICS 140/141	MATH 115	CEE 211, PHYSICS 240	Fall, Winter, Spring
PHYSICS 240/241	PHYSICS 140, MATH 116	CEE 375, CEE 575	Fall, Winter, Spring
Mathematical Methods			
CEE 303	MATH 215, 216; ENGR 101	CEE 421	Winter
CEE 373	MATH 215, MATH 216 (C or better)	CEE 450, CEE 501.076, CEE 552	Fall
Required Program Subjects			
CEE 200			Fall, Winter
CEE 211	PHYSICS 140	CEE 212, CEE 325	Fall, Winter
CEE 212	CEE 211	CEE 312, CEE 345, CEE 351, CEE 574	Fall, Winter
CEE 230	MATH 116, CHEM 130 & 125/126 or CHEM 210 & 211	CEE 563, CEE 567	Fall
CEE 265	MATH 116, CHEM 130	CEE 365	Fall, Winter
CEE 325	CEE 211	CEE 421, CEE 428, CEE 465, CEE 521, CEE 526, CEE 527, CEE 563	Fall, Winter
CEE 375	PHYSICS 240		Winter
CEE 402	Senior Standing		Winter
Program Electives			
CEE 312	CEE 212	CEE 412, CEE 413, CEE 415	Fall
CEE 331	Junior Standing	CEE 435, CEE 531, CEE 534, CEE 537	Winter
CEE 345	PHYSICS 140	CEE 428, CEE 540, CEE 545, CEE 546, CEE 547, CEE 548	Fall, Winter
CEE 351	CEE 212	CEE 537	Fall, Winter
CEE 365	CEE 265	CEE 465	Fall
CEE 421	CEE 303, CEE 325	CEE 521	Fall
CEE 450	MATH 215 (C or better), CEE 373	CEE 551, CEE 552	Winter
Technical Electives			
CEE 412	MATH 216, CEE 312		Fall
CEE 413*	CEE 312		Fall
CEE 415*	CEE 312		Winter
CEE 428*	CEE 325, (CEE 345 or CEE 366)		Fall
CEE 435*	CEE 331 (C or better)		Fall
CEE 465	CEE 325, CEE 365	CEE 480	Fall
CEE 480*	CEE 465		Fall
CEE 501.076	CEE 373		Winter
CEE 521	CEE 325 and CEE 421		Fall
CEE 526*	CEE 325		Winter
CEE 527*	CEE 325		Fall
CEE 531	CEE 331		Fall
CEE 534	CEE 331, Junior Standing		Winter
CEE 537	CEE 331 and CEE 351		Winter
CEE 540	CEE 345		Fall
CEE 545*	CEE 345		Fall
CEE 546*	CEE 345		Winter
CEE 547*	CEE 345		Fall
CEE 548	CEE 345		Winter
CEE 551*	CEE 450 (C or better)		Fall
CEE 552	CEE 373, CEE 450 (C or better)		Fall
CEE 563*	CEE 230 and CEE 325		Winter
CEE 567	CEE 230 or MECHENG 336 or CHE 330 or Equivalent		Fall
CEE 575*	PHYSICS 240		Winter

Unless otherwise noted, a grade of C- is required for prerequisites.