

Semester	Mathematics	Science	History	Language Arts	Physical Education	Art	Music	Health	Electives
1st Semester	Algebra I	Biology	World History	English I	Physical Education	Art	Music	Health	Electives
2nd Semester	Geometry	Chemistry	U.S. History	English II	Physical Education	Art	Music	Health	Electives
3rd Semester	Algebra II	Physics	European History	English III	Physical Education	Art	Music	Health	Electives
4th Semester	Calculus	Environmental Science	World History	English IV	Physical Education	Art	Music	Health	Electives

A/A	Course Type	Course Title	Course Code	Periods per Week	Period Duration	Weeks per Semester	Periods per Semester	Number of ECTS
Term I (Fall)								
1.	Compulsory	Introduction to Civil Engineering Design	CESD 100	2	90 min	13	26	6
2.	Compulsory	Engineering Drawings and 3D BIM	CESD 101	2	90 min	13	26	6
3.	General Education Compulsory	Introduction to Programming	CSEN 101	2	90 min	13	26	6
4.	General Education Compulsory	Calculus and Analytic Geometry III	MATH 100	2	90 min	13	26	6
5.	General Education Compulsory	Academic English	ENGL 100	2	90 min	13	26	6
Term II (Spring)								
6.	Compulsory	Introduction to Solid Mechanics	CESD 110	3	80 min	13	39	8
7.	Compulsory	Engineered Systems and Sustainability	CESD 180	2	90 min	13	26	6
8.	Compulsory (Basic Math/Science)	Differential Equations	MATH 101	2	90 min	13	26	6
9.	Compulsory (Basic Math/Science)	Introductory Physics II	PHYS 100	2	90 min	13	26	6
10	Compulsory (Basic Math/Science)	Introductory Physics II Lab	PHYS 100L	1	60 min	13	13	2
11.	General Education Compulsory	Technical English	ENGL 102	2	90 min	13	26	6
Term III (Fall)								
12.	Compulsory	Remote Sensing and Digital Mapping	CESD 270	2	90 min	13	26	6
13.	Compulsory	Sustainable Construction Materials and Technology	CESD 281	3	60 min	13	39	6
14.	Compulsory (Basic Math/Science)	Introduction to Environmental Chemistry	CHEM 101	2	90 min	13	26	6
15.	Compulsory (Basic Math/Science)	Introduction to Environmental Chemistry Lab	CHEM 101L	2	60 min	13	26	4
16.	Compulsory (Basic Math/Science)	Introduction to Probability and Random Variables	STAT 101	2	90 min	13	26	6
17.	Elective	General Education Elective		2	90 min	13	26	6
Term IV (Spring)								

18.	Compulsory	Fluid Mechanics and Hydraulics	CESD 240	3	60 min	13	39	6
19.	Compulsory	Cornerstone Structural Analysis and Design	CESD 211	3	80 min	13	39	8
20.	Compulsory	Data Science for Engineers	CESD 271	2	90 min	13	26	6
21.	Compulsory (Basic Math/Science)	Numerical Computing	MATH 203	2	90 min	13	26	6
22.	General Education Compulsory	Climate and Earth Sciences for Engineers	GEOL 227	2	90 min	13	26	6
Term V (Fall)								
23.	Compulsory	Transportation Engineering and Design	CESD 360	3	60 min	13	39	6
24.	Compulsory	Reinforced Concrete Design	CESD 312	3	60 min	13	39	6
25.	Compulsory	Geotechnical Engineering and Design	CESD 330	3	60 min	13	39	6
26.	General Education Compulsory	Human Biology	BIOL 101	2	90 min	13	26	6
27.	Elective	General Education Elective		2	90 min	13	26	6
Term VI (Spring)								
28.	Compulsory	Steel Design	CESD 313	2	90 min	13	26	6
29.	Compulsory	Engineering Project Management and Economics	CESD 320	2	90 min	13	26	6
30.	Compulsory	Engineering Hydrology	CESD 341	2	90 min	13	26	6
31.	General Education Compulsory	Engineering Ethics	INDE 330	2	90 min	13	26	6
32.	Elective	General Education Elective		2	90 min	13	26	6
Term VII (Summer)								
33.	Compulsory	Approved Experience	CESD 400			8		0
Term VIII (Fall)								
34.	Compulsory	Environmental Engineering and Design	CESD 450	2	90 min	13	26	6
35.	Compulsory	Earthquake Engineering	CESD 417	2	90 min	13	26	6
36.	CESD Elective	Engineering Elective		2	90 min	13	26	6
37.	Elective	General Education Elective		2	90 min	13	26	6
38.	Elective	General Education Elective		2	90 min	13	26	6
Term IX (Spring)								
39.	Civil Engineering Core	Capstone Sustainability Project	CESD 482	2	90 min	13	26	6

40.	CESD Elective	Engineering Elective		2	90 min	13	26	6
41.	CESD Elective	Engineering Elective		2	90 min	13	26	6
42.	Elective	General Education Elective		2	90 min	13	26	6