Environmental Engineering Flowchart

Colorado State University

7/11/2022

Effective Spring 2022

Prerequisites and (co-requisites) are shown above the class. Some technical electives may require department approval.

This flowchart is provided as a guide only. Programs of study, course offerings and prerequisites can change during the year and the CSU catalog is the source of official information. Along with your personal Degree Audit.

	Fall	CIVE 102 - 3 F Intro CE/Env Engr			MATH124 (B or higher) MATH126 (B or higher) MATH 160 - 4 Calculus I	(MATH 160) or (MATH 159 PH 141 - 5 Physics I)	CO 150 - 3 College Comp	15
Freshman	Spring	CIVE 102 CIVE 103 - 3 S Eng Graphics & Comp			MATH 124 MATH160 MATH 161 - 4 Calculus II	MATH 118 CHEM 105 CHEM 111 - 4 Gen Chem I	(CHEM 111) CHEM 112 - 1 Gen Chem Lab	LIFE 102 - 4 Living Systems	16
	Fall	CIVE 103 (MATH 160) CIVE 202 - 3 F Num Mod & Risk Anal	MATH 160 PH 141 CIVE 260 - 3 F,S,SM Engr Statics		MATH 161 MATH 261 - 4 Calculus III	CHEM 111 CHEM 113 - 3 Gen Chem II	CHEM 112 (CHEM 113) CHEM 114 -1 Gen Chem Lab II	Arts & Humanities -	17
Sophmore	Spring	CIVE 202 CIVE 203 - 3 S Engr Sys & Dec Anal.	CIVE 260 CIVE 261 - 3 F,S,SM Engr Dynamics	CIVE 260 CIVE 360 - 3 F,S,SM Mech/Solids	MATH 160 PH 141 MECH 237 - 3 S Intro Thermal Sci	CHEM 113 CHEM 245 - 4 Organic Chem			16
	Fall	CIVE 261 (MECH 237) (MATH 340) CIVE 300 - 3 F,S,SM Fluid Mech	(CIVE 300) CIVE 301- 1 F, S Fluid Mech Lab		MATH261 MATH 340 - 4 Diff Equations	CIVE 360 CIVE 355 - 3 F,S Geotech Engr	(CIVE 355) CIVE 356 - 1 F,S Geotech Engr Lab	MATH 117, MATH 118 or MATH 160 ECON 202 - 3 Prin of Micro	15
Junior		Curious about gradaute sci CIVE300 or CBE331 or WR416; CIVE 203 or STAT 301 or STAT 315		ngineering. Chat with the Departuble count up to 9 credits of CIV				MP), which allows you to	
Junior	Spring	CIVE 322 - 3 F,S Basic Hydrology	CIVE 339 - 3 S Env Engr Concepts	CIVE 300 CIVE 442 - 3 S Air Quality Engr		MIP 300 - 3 Gen Microbiology	Diversity, Equity & Inclusion - 3	Advanced Writing - 3	18
	Fall	CIVE 300; CIVE 303 or CHEM 245 CIVE 402 - 3 F Senior Design Prin	CIVE 339 CIVE 439 - 3 F Env Engr Chem Con	CHEM 245 ERHS 446 - 3 F Env Toxicology	CIVE 300 CIVE 401 - 3 F,S Hydraulic Engr	Engr Technical Elective -3		Arts & Humanities -	18
Senior	Spring	CIVE 402 CIVE 403 - 3 S Senior Proj Design	(CIVE 339) CIVE 441 - 3 S Water Quality Anal & Trtmt	Engr Technical Elective	Tech Elective - 3			Historical Perspectives - 3	15
		Overall gpa M/S/E gpa	0.000 0.000					TOTAL	130

Environmental Engineering Checksheet

Name: Cumulative GPA: 0.000
Student eid: Math/Sci/EngGPA: 0.000
First Semester
Enrolled in CSU: Credits Completed: 0
First Semester
Enrolled in Dept: CSU M/S/E Credits: 0

Note** To delete a grade, click on the cell and then press the Delete Key

Date Entered:

Updated: 7/11/22 9:27 AM

130 credits are required for the BS ENVE degree

Course	Course Name	Credits	Sem.	Grade	Predict	R/D
ALL UNIVERSITY CORE		21 required	credits		Grade	
College Comp (1A)	CO 150	3				
Div/Eqty&Incl(1C)		3				
Adv Writing (2)		3				
Arts/Hum (3B)		3				
Arts/Hum (3B)		3				
Soc/Behv Sci (3C)	ECON 202	3				
Hist Persp (3D)		3				

 $\label{lem:check the University All university Core Curriculum (AUCC) requirements} \\ (1C, 2 \ and \ 3B \ through \ 3E) \ for \ a \ list of acceptable courses.$

MATHEMATICS

16 required credits

MATH 160	Calc for Phy Sci I	4		
MATH 161	Calc for Phy Sci II	4		
MATH 261	Calc for Phy Sci III	4		
MATH 340	Intro to Ord Diff Eq	4		

BASIC SCIENCES

28 required credits

PH 141	Phys for Sci/Eng I	5		
CHEM 111	Gen. Chem. I	4		
CHEM 112	Gen. Chem Lab I	1		
CHEM 113	Gen. Chem II	3		
CHEM 114	Gen. Chem II Lab	1		
CHEM 245	Fund. Organic Chem	4		
MIP 300	Gen Microbiology	3		
LIFE 102	Att. of Living Sys	4		
ERHS 446	Environ. Toxicology	3		

ADDITIONAL/REPEATED COURSES

Course	Course Name	Credits	Sem.	Grade	Predict	R/D
DESIGNATED ENG	DESIGNATED ENGINEERING		red credi	ts	Grade	
CIVE 102	Intro: CE/EV Engineering	3				
CIVE 103	Engr. Graphics & Computing	3				
CIVE 202	Num Model & Risk	3				
CIVE 203	Eng Systms & Dec Anl	3				
MECH 237	Intro to Thermal Sci	3				
CIVE 260	Engr Mech: Statics	3				
CIVE 261	Engr Mech: Dynamics	3				
CIVE 300	Fluid Mechanics	3				
CIVE 301	Fluid Mechanics Lab	1				
CIVE 322	Basic Hydrology	3				
CIVE 360	Mechanics of Solids	3				
CIVE 401	Hydraulic Engr	3				
CIVE 402	Senior Design Principles	3				
CIVE 403	Senior Project Design	3				
CIVE 355	Intro to Geotech Engr	3				
CIVE 356	Intro to Geotech Engr lab	1				
CIVE 339	Envir Engr Concepts	3				
CIVE/CBE 439	Env Engr Chem Con	3				
CIVE 441	Water Quality Analy & Trmt	3				
CIVE 442	Air Quality Engr	3				

TECHNICAL ELECTIVES (see approved list) 9 credits

Engineering TE 1	3		
Engineering TE 2	3		
TE	3		