

Civil Engineering Flowchart

Colorado State University

Effective Fall 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.

7/11/2022

Freshman	Fall	CIVE 102 - 3 F Intro CE/Env Eng		MATH 160 - 4 Calculus I	PH 141 - 5 Physics I		CO 150 - 3 College Comp	15
	Spring	CIVE 103 - 3 S Eng Graphics & Comp	MATH 124 & MATH 160 MATH 161 - 4 Calculus II		MATH 118 CHEM 105 CHEM 111 - 4 Gen Chem I	(CHEM 111) CHEM 112 - 1 Gen Chem Lab	Soc/Behavioral Science - 3	15
Sophomore	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		Arts & Humanities - 3	16
	Spring	CIVE 202 CIVE 203 - 3 S Eng Sys & Decision	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	Science Tech Elec - 3	Advanced Writing - 3	18
Junior	Fall	CIVE 360 CHEM 111 CIVE 302 - 3 F Eval CE Materials	CIVE 261 (MECH 237) (MATH 340) CIVE 300 - 3 F,S,SM Fluid Mech	(CIVE 300) CIVE 301 - 1 F,S Fluid Mech Lab	MATH 261 MATH 340 - 4 Diff Equations	CIVE 360 CIVE 367 - 3 F,S Structural Anal	Diversity, Equity & Inclusion - 3	17
	Spring	CIVE 260 CIVE 303 - 3 S Infastr & Trans	CIVE300 or CBE331 or WR 416 and CIVE 203 or STAT 301 or STAT 315 CIVE 322 - 3 F,S Basic Hydrology	CIVE 360 CIVE 355 - 3 F,S Geotech Engr	(CIVE 355) CIVE 356 - 1 F,S Geotech Engr Lab	CIVE 367 CIVE 467 - 3 F,S Concrete Design	Arts & Humanities - 3	16
Senior	Fall	CIVE 300; CIVE 303 or CHEM 245 CIVE 402 - 3 F Sen Design Prin	CIVE 300 CIVE 401 - 3 F,S Hydraulic Engr	Tech Elective - 3	Engineer Tech Elective - 3	CIVE 367 CIVE 466 - 3 F,S Steel Design	Historical Perspectives - 3	18
	Spring	CIVE 402 CIVE 403 - 3 S Sen Proj Design	CBE 331 or CIVE 300 or MECH 342; CHEM 113 CIVE 438 - 3 F,S Env Engr Concepts	Engineer Tech Elective - 3	Engineer Tech Elective - 3	Tech Elective - 3		15
		Overall GPA	0.000				TOTAL	130

Civil Engineering Checksheet

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

130 credits are required for the BS CIVE degree

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

Date Entered: 7/11/22 9:27 AM
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Course	Course Name	Credits	Sem.	Grade	Predict	
ALL UNIVERSITY CORE		21 required credits			Grade	
College Comp (1A)	CO 150	3				
Div/Equy&Incl(1C)		3				
Adv Writing (2)		3				
Arts/Hum (3B)		3				
Arts/Hum (3B)		3				
Soc/Behv Sci (3C)		3				
Hist Persp (3D)		3				

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		13 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				

ADDITIONAL/REPEATED COURSES					

Course	Course Name	Credits	Sem.	Grade	Predict	R/D
DESIGNATED ENGINEERING		62 required credits			Grade	
CIVE 102	Intro to Civil/Env Engr	3				
CIVE 103	Engr. Graphics & Computing	3				
CIVE 202	Num Model & Risk	3				
CIVE 203	Eng Systems & 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 302	Eval CE Materials	3				
CIVE 303	Infras & Transpo Syst	3				
CIVE 322	Basic Hydrology	3				
CIVE 355	Intro to Geotech Engr	3				
CIVE 356	Intro to Geotech Lab	1				
CIVE 360	Mechanics of Solids	3				
CIVE 367	Structural Analysis	3				
CIVE 401	Hydraulic Engineering	3				
CIVE 402	Senior Design Principles	3				
CIVE 403	Senior Project Design	3				
CIVE 438	Envir Engr Concepts	3				
CIVE 466	Design/Behav Steel Struct	3				
CIVE 467	Design Reinf Conc Struct	3				

TECHNICAL ELECTIVES						18 credits	
Engineering TE		3					
Engineering TE		3					
Engineering TE		3					
Science TE		3					
TE		3					
TE		3					