



# CIVIL ENGINEERING, BSCE

## FALL

## SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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### FRESHMAN YEAR

CE 1000	Exploring CAECM		1	C		CE 1010	Civil Engineering Tools <i>Prerequisite:</i> Concurrent in MATH 2200		3	C	
MATH 2200	Calculus I <i>Prerequisite:</i> C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640	Q	4	C		MATH 2205	Calculus II <i>Prerequisite:</i> C in Math 2200		4	C	
CHEM 1020	General Chemistry I <i>Prerequisite:</i> ACT Math 23 or concurrent MATH 1400, 1405 or 1450	PN	4	C		ES 2110	Statics <i>Prerequisite:</i> Concurrent in MATH 2205		3	C	
	USP: Communications I	CI	3	C		PHYS 1210	Engineering Physics I or PHYS 1220		4	D	
	USP: Human Culture or First Year Seminar	H	3	D			USP: Communications II <i>Prerequisite:</i> C in CI	C2	3	C	
<b>Total</b>						<b>Total</b>					
15						17					

### SOPHOMORE YEAR

MATH 2210	Calculus III <i>Prerequisite:</i> C in MATH 2205		4	C		MATH 2310	Applied Differential Eqns I <i>Prerequisite:</i> C in MATH 2205		3	D	
ES 2120	Dynamics <i>Prerequisite:</i> C in MATH 2205 and ES 2110		3	C		ES 2310	Thermodynamics <i>Prerequisite:</i> C in MATH 2210 and ES 2120		3	C	
ES 2410	Mechanics of Materials <i>Prerequisite:</i> C in MATH 2205 and ES 2110		3	C		ES 2330	Fluid Dynamics <i>Prerequisite:</i> C in MATH 2210 and ES 2120		3	C	
CE 2070	Engineering Surveying <i>Prerequisite:</i> Concurrent in MATH 1450 or MATH 1405		4	D		CE 3200	Structural Analysis I <i>Prerequisite:</i> Gateway, C in ES 2410		3	C	
	USP: US & Wyo Const.	V	3	D			USP: Human Culture	H	3	D	
<b>Total</b>						<b>Total</b>					
17						15					

### JUNIOR YEAR

CE 3400	Intro to Environmental Eng <i>Prerequisite:</i> Gateway, C in MATH 2205 and CHEM 1020		3	C		CE 3110	Professional Practice <i>Prerequisite:</i> Gateway		3	C	
CE 3210	CE Materials <i>Prerequisite:</i> Gateway, C in USP C2 and ES 2410	C3	4	C		CE 3300	Hydraulic Engineering <i>Prerequisite:</i> Gateway, C in ES 2330		3	C	
STAT 2050	Fundamentals in Statistics <i>Prerequisite:</i> C in MATH 1400		4	C		CE 3500	Transportation Engineering <i>Prerequisite:</i> Gateway, C in CE 1010		4	C	
	Science Elective (3rd area) typ. GEOL 1100, LIFE 1010, ATSC 2100, ENR 1200, SOIL 2010		4	D		CE 3600	Soil Mechanics I <i>Prerequisite:</i> Gateway, C in ES 2410		4	C	
<b>Total</b>						<b>Total</b>					
15						14					

### SENIOR YEAR

<i>Prerequisite:</i>	CE PDE - Structural Gateway		3	C		CE 4010	Civil Engineering Design <i>Prerequisite:</i> Gateway, C STAT 2050		3	D	
<i>Prerequisite:</i>	CE PDE Gateway		3	C		CE 4900	Comprehensive Design Exper. <i>Prerequisite:</i> C in CE 3110 AND three of CE 3200, 3300, 3400, 3500, 3600 AND two of CE 4250, 4260, 4610, 4555, 4510, 4400, 4410, or 4800		3	D	
<i>Prerequisite:</i>	CE PDE Gateway		3	D			CE PDE Gateway		3	D	
	CE MSTP Elective		3	D			CE PDE Gateway		3	D	
	USP: Human Culture	H	3	D		<b>Total</b>					
15						12					

#### Fall only or spring only course

Total Program Credits: 120

- A minimum of 120 hours is required. • A minimum of 42 hours must be upper division.
- Math, Science, Technical, and Professional Development Electives must be selected with advisor's approval from Department list.
- Advanced Standing/Gateway: Prior to enrolling in upper division CE/ARE courses, students must earn 57 quality points in the following courses: CHEM 1020, PHYS 1210 or 1220, MATH 2200, MATH 2205, ES 2110, ES 2120, and ES 2410.
- Degree candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all engineering courses, and all courses required for the major.
- Grades of C or better are required for all prerequisite courses.
- Students must take either CE 4250 or CE 4260 for the Structural Design PDE requirement. The remaining four PDEs (Professional Development Electives) must cover at least two of the following areas: Environmental, Geotechnical, Transportation, Water Resources.
- Students may have a maximum of 6 credits in courses with a grade of D in upper division ARE/CE courses that apply towards their degree.
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.
- No more than two upper division courses may be transferred and applied to the CE degree. CE 4010 and CE 4900 cannot be transferred to UW.