

**Metropolitan State University of Denver**  
**Civil Engineering Technology Major, B.S.: Structures Concentration**  
**Minor (not required):**  
**Fall 2013 Catalog**

<b>First Year</b>	<b>Suggested Course plan</b>	<b>Prerequisites</b>	<b>Alternative Course Plan</b>
<b>Fall: 16 credit hours</b>	CET 1100 (3) Introduction to Civil Engineering Technology <b>(F,S, Su)</b>		
	MTH 1410 (4) Calculus I <b>(F,S, Su)</b>	Appropriate placement test scores or prerequisite courses	
	ENG 1010 (3) Freshman Composition: The Essay <b>(F,S, Su)</b>	Appropriate placement test score	
	SPE 1010 (3) Public Speaking <b>(F,S, Su)</b>		
	Arts and Humanities (3) ARTH 1600 is recommended (global diversity) <b>(F,S, Su)</b>		
<b>Spring: 15 credit hours</b>	CET 1215 (3) Engineering Graphics <b>(F, S, Su)</b>		
	MTH 2410 (4) Calculus II <b>(F,S, Su)</b>	MTH 1410 or permission of instructor	
	ENG 1020 (3) Freshman Composition: Analysis, Research, & Documentation <b>(F,S, Su)</b>	ENG 1010	
	CHE 1100 (4) Principles of Chemistry AND CHE 1150 (1) Principles of Chemistry Laboratory <b>(F,S, Su)</b>	Minimum performance standard scores on placement tests	

<b>Second Year</b>	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Fall: 18 credit hours</b>	CET 2100 (3) Structural Drawing (F)	CET 1215 with a grade C or better or permission of instructor	
	CET 2150 (3) Mechanics I-Statics (F, S)	MTH 1410 with a grade C or better or permission of instructor	
	COM 2610 (3) Introduction to Technical Writing (F,S, Su)	ENG 1010	
	MTH 2420 (4) Calculus III (F,S, Su)	MTH 2410 with a grade of C or better or permission of instructor	
	PHY 2311 (4) General Physics I AND PHY 2321 (1) General Physics I Laboratory (F,S, Su)	MTH 1410, ENG 1010, Oral Communication	
			<b>TOTAL SEMESTER CREDIT HOURS:</b>
<b>Spring: 15 credit hours</b>	CET 3135 (4) Mechanics of Materials with Laboratory (F, S)	CET 2150 and COM 2610 with grades C or better or permission of instructor; MTH 2410 is a pre/co-requisite	
	MET 3160 (3) Mechanics II-Dynamics (F, S)	CET 2150 and MTH 2410 with grades C or better	
	PHY 2331 (4) General Physics II AND PHY 2341 (1) General Physics II Laboratory (F,S, Su)	MTH 2410, PHY 2311 or equivalent and completion of either ENG 1010 or oral communication	
	ECO 2020 (3) Principles of Microeconomics (F,S, Su)	ENG 1010 or ENG 1020 and any 1000-level MTH course	
			<b>TOTAL SEMESTER CREDIT HOURS:</b>

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<b>Third Year</b>	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Fall: 18 credit hours</b>	CET 3185 (3) Fluid Mechanics I for Civil Engineering Technology	MET 3160 with a grade C or better or permission of instructor	
	CET 3120 (3) Engineering Economy	At least Junior standing or permission of instructor	
	CET 3330 (3) Environmental Technology Processes <b>(F)</b>	CHE 1100 or CHE 1800 with a grade of "C" or better, at least junior standing; or permission of instructor.	
	MET 3110 (3) Thermodynamics <b>(F)</b>	MTH 1410 and PHY 2311 with grades C or better, or permission of instructor	
	CET 4150 (3) Highway Engineering and Surveying <b>(F)</b>	At least Junior standing	
	Approved (by CET advisor) Technical Elective (3)		
<b>Spring: 15 credit hours</b>	CET 3190 (3) Fluid Mechanics II for Civil Engineering <b>(S)</b>	CET 3185 with grade C or better	
	CET 3170 (3) Introduction to Structural Analysis <b>(S)</b>	CET 3135 with grade C or better or permission of instructor	
	EET 2350 (3) Advanced Technical Programming <b>(F, S)</b>	MTH 1400 (or MTH 1110 and MTH 1120) (or a higher level math course) with a grade of "C" or better.	
	PHI 3360 (3) Business Ethics	At least Junior standing	
	Historical (3) HIS 1920, 3090, or 3590 recommended (multicultural) <b>(F,S, Su)</b>		

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<b>Fourth Year</b>	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Fall: 17 credit hours</b>	CET 4130 (4) Soil Mechanics (F)	CET 3130 and 3185 with grades C or better and Junior standing	
	CET 4100 (1) Senior Project I (F)	COM 2610, CET 3120, MTH 2420, and SPE 1010 with grades C or better; Completion of general studies with a cumulative GPA of 2.0; Senior Standing. Pre/Corequisites: CET 4120 & 4400	
	CET 4400 (3) Steel Design I (F)	CET 3170 with grade C or better or permission of instructor	
	CET 4120 (3) Concrete Design I (F)	CET 3170 with grade of C or better or permission of instructor	
	CET 4450 (3) Timber Design	CET 3170 with a grade C or better or permission of instructor	
	CET 4570 (3) Engineering Law (F)	CET 3120 or permission of instructor	
			<b>TOTAL SEMESTER CREDIT HOURS:</b>
<b>Spring: 14 credit hours</b>	CET 4135 (3) Foundation and Geotechnical Engineering	CET 4130 with grade C or better	
	CET 4110 (2) Senior Project II	CET 4100 with grade C or better	
	CET 4410 (3) Steel Design II	CET 4400 with a grade C or better or permission of instructor	
	CET 4140 (3) Concrete Design II	CET 4120 with a grade C or better or permission of instructor	
	Social & Behavioral Science I (3) IND 2810 recommended (global diversity) or Social and Behavioral Science II		
			<b>TOTAL SEMESTER CREDIT HOURS:</b>

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	Suggested Course plan	Prerequisite	Alternative Course Plan
<b>Semester:</b>			

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