

BSET Civil Engineering Technology Checksheet

Revised: Mar-24
Catalog Date: 2024-2025

Last Name: _____
First Name: _____
Student ID: _____

SEM & YR	Course #	Course Name	Hr	Grade	Pre/Co-Requisites	Comments
Freshman - Fall						
_____	ETCE 1104	Civil/Construction CAD Applications (c)	3	_____		_____
_____	ETCE 1222	Construction Materials (c)	3	_____		_____
_____	ETGR 1201	Introduction to ET & CM (c)	2	_____	MATH 1100 or 1101	_____
_____	MATH 1103	Precalc Math for Sci. & Eng. (c)	3	_____		_____
_____	WRDS 1103	Writing & Inquiry in Academic Contexts I & II (c)	3	_____		_____
			Total	14		
Freshman - Spring						
_____	CMET 1680	Prof. Development I: Construction Safety (c)	1	_____	Freshman CIET/CM majors	_____
_____	ETCE 1211	Construction Surveying I (c)	3	_____	MATH 1103 or Higher, ETCE 1104, ETCE 1211L	_____
_____	ETCE 1211L	Construction Surveying I Lab (c)	1	_____	ETCE 1211, MATH 1103	_____
_____	ETCE 2105	Plan Reading and Quantity Takeoff	3	_____	ETCE 1104, MATH 1103	_____
_____	XXXX 1501	Global Social Science	3	_____		_____
_____	MATH 1121	or MATH 1241 (c)	3	_____	MATH 1103*	_____
			Total	14		
Sophomore - Fall						
_____	CMET 2135	Building Information Modeling	3	_____	ETCE 1104	_____
_____	ETGR 2101	Applied Mechanics I (c)	3	_____	MATH 1103	_____
_____	ETGR 2272	Engineering Analysis II or MATH 1242	3	_____	MATH 1121* or MATH 1241*	_____
_____	PHYS 1101	Introductory Physics I (c)	3	_____	MATH 1103	_____
_____	PHYS 1101L	Introductory Physics I Laboratory	1	_____	PHYS 1101	_____
_____	XXXX 1511	Local Social Science	3	_____		_____
			Total	16		
Sophomore - Spring						
_____	ETCE 2163L	Construction Materials and Structures Lab	1	_____	ETCE 1222, ETGR 2102	_____
_____	ETCE 2221	Construction Means and Methods	3	_____	ETCE 2105, PHYS 1101	_____
_____	ETCE 2410	Intro. to Environmental Eng. Tech.	3	_____	MATH 1103 or Higher, ETGR 2101*	_____
_____	ETGR 2102	Applied Mechanics II	3	_____	ETGR 2101*	_____
_____	PHYS 1102	Introductory Physics II	3	_____	PHYS 1101*	_____
_____	STAT 1220	Elements of Statistics I	3	_____	MATH1100	_____
			Total	16		
						Course in <i>italics</i> can be taken as a pre or co requisite
						Course in bold must be taken as a co requisite
						* = grade of C or better required in prerequisite course

Footnotes:
 (a) Science/Math elective courses are chosen jointly by student and advisor from the approved list.
 (b) Major elective courses are chosen jointly by student and advisor from the course list approved by the Department as major electives. Other courses related to the student's professional interests and career goals may be considered but all such requests to take alternative major elective courses must be approved in writing by the ETCM Department.
 (c) These courses must be completed with a grade of C or better.

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Junior - Fall						
_____	CMET 3224	Construction Project Administration	3	_____	Junior or senior standing or AAS transfer	_____
_____	ETCE 3131	Soil Mechanics and Earthwork	3	_____	ETGR 2102 or AAS transfer	_____
_____	ETCE 3131L	Soil Testing Laboratory	1	_____	ETCE 3131	_____
_____	ETCE 3264	Structural Analysis	3	_____	ETGR 2102, ETGR 2272	_____
_____	GEO 1200	Physical Geology	3	_____		_____
_____	CTCM 2530	Critical Thinking and Communication	3	_____		_____
			Total	16		
Junior - Spring						
_____	CMET 3680	Prof. Develop. III: Professional Ethics	1	_____	CIET/CM majors only. Junior standing	_____
_____	ETCE 3242	Hydraulics and Hydrology	3	_____	ETGR 2102, ETCE 2410, PHYS 1102 or AAS transfer	_____
_____	ETCE 4350	Construction Geotechnics and Foundations	3	_____	ETCE 3131	_____
_____	ETGR 3171 or				ETGR 2272* or MATH 1242*	
_____	ETGR4272	Engineering Analysis III or IV	3	_____	(and STAT 1220* for ETGR 4272)	
_____	ETGR 3295	Multidisciplinary Professional Dev.	1	_____	Junior or Senior standing	
_____	Science/Math	Science/Math Elective (a)	3	_____		
			Total	14		
Senior - Fall						
_____	ETCE 4165	Structural Steel Design	3	_____	ETCE 3163 or ETCE 3264	_____
_____	ETCE 4251	Highway Design & Construction	3	_____	ETCE 1211, ETCE 3131	_____
_____	ETGR 3222	Engineering Economics	3	_____		_____
_____	XXXX 1502	Global Arts/Humanities	3	_____		_____
_____	Major Elective (b)		3	_____		_____
			Total	15		
Senior - Spring						
_____	CMET 3123	Cost Estimating	3	_____	ETCE 2105, CMET 3224	_____
_____	ETCE 4266	Reinforced Concrete Design	3	_____	ETCE 3264 or ETCE 3163	_____
_____	ETCE 4272	Capstone Project	3	_____	Senior standing and CIET major, or permission of department	_____
_____	XXXX 1512	Local Arts/Humanities	3	_____		_____
_____	Major Elective (b)		3	_____		_____
			Total	15		
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