

BSET CIVIL ENGINEERING TECHNOLOGY (CET)

Concentrations: Structural Design, Construction Management and Site Development

Name:

UIN#

Catalog Year : 2021-2022

Foreign Language:

Legend

x completed
IP in-progress
TP transferred

Freshman Year

CET 120 Civil 2D CAD	3	_____	ENGT 111 Engineering & Tech. II (fresh)	2	_____
ENGN 110 Engineering & Tech. I (fresh)	2	_____	MATH 163 Pre-calculus II (MATH 162M) Crule	3	_____
MATH 162M Pre-calculus (placement) Crule	3	_____	PHYS 111N General Physics I (MATH 102 or 162M)	4	_____
CHEM 121N/122N Found. of Chem. (MATH 102M)	4	_____	ENGL 110C English Comp (placement) Crule	3	_____
_____ S Human Behavior	<u>3</u>	_____	_____ A Human Creativity	<u>3</u>	_____
	15			15	

Sophomore Year

CET 200 Statics (Pre or co-MATH 211) Crule	3	_____	CET 205 Principles of Surveying (MATH 163, CET 120)	3	_____
CET 210 Fund. of Buld. Construction (sophomore)	3	_____	CET 220 Strength of Materials (CET 200) Crule	3	_____
MATH 211 Calculus I (MATH 163) Crule	4	_____	CET 345W Materials Lab (pre or co-CET 220) Crule	2	_____
PHYS 112N General Physics II (PHYS111N)	4	_____	ENGT 305 Advanced Technical Analysis (Math 211)	3	_____
ENGL 211C Tech Writing (ENGL 110C) Crule	<u>3</u>	_____	COMM 101R Public Speaking	3	_____
	17		ENMA 480 Philosophy & Ethics	<u>3</u>	_____
				17	

Junior Year

CET 301 Structural Analysis (CET 220)	3	_____	CET 340 Soils & Foundations (CET 220)	3	_____
CET _____ Approved Elective (by adv.)	3	_____	CET 341W Soils Testing Lab (pre or co-CET 340) Crule	2	_____
CET 330 Fluid Mechanics (CET 220)	4	_____	CET 260 Plans & Specifications (CET 210 & CET 120)	3	_____
_____ L Literature	3	_____	CET _____ Approved Elective (by adv.)	3	_____
_____ Upper Division General Education	<u>3</u>	_____	ENMA 302 Engineering Economics (junior)	<u>3</u>	_____
	16			14	

Senior Year

CET 355 Sustainable Building Design (junior)	3	_____	CET 410 Concrete ¹ or CET 450 Steel ¹ (pre or co-CET 301)	3	_____
ENGT 434 Intro to Senior Project (senior)	1	_____	ENGT 435W Senior Design Project (ENGT 434) Crule	3	_____
CET 440 Contract Documents (CET 210)	3	_____	CET _____ Approved Elective (by adv.)	3	_____
CET _____ Approved Elective (by adv.)	3	_____	CET _____ Approved Elective (by adv.)	3	_____
_____ Upper Division General Education	3	_____	EET 370T Energy and the Environment	3	_____
_____ H Interpreting the Past	<u>3</u>	_____	ENGN 401 FE Review	<u>1</u>	_____
	16			16	

Total Amount of Credits to Complete BSET: 126 credits

Approved CET Electives:

CET 325 Introduction to Land Development (CET 210)	CET 428 Buried Infrastructure
CET 332 Water Resources Engineering (CET 330)	CET 435 Design of Reinf. Conc. Foundations (CET 340, 410)
CET 334 Computer Applications in Hydraulic Eng. (CET 330)	CET 445 Construction Planning and Scheduling (CET 210)
CET 365 Build. Information Modeling (CET 360)	CET 450 Structural Steel Design ¹ (Pre or co-CET 301)
CET 400 Comp. Appl. in Struct. Design (Pre or co-CET 301)	CET 452 Wood Design (Pre or co-req CET 301)
CET 405 Environmental Loads (CET 220)	CET 460 Construction Cost Estimating (CET 210)
CET 408 Hydrology Engineering (CET 330)	CET 465 Construction Project Management (CET 210)
CET 410 Reinforced Concrete Design ¹ (Pre or co-CET 301)	CET 468 Construction Finance (CET 210)
CET 420 Hydrology and Drainage (CET 330 or senior)	CET 470 Infrastructure, Heavy Hwy and Equip. (CET 210)
	CET 485 Bridge Design (CET 410 or 450)

Program Options or Concentrations:

Structural Design Electives:	Core Electives	Electives
Construction Management Electives:	CET 400, CET 410/450, CET 405	CET 435, CET 452, CET 485
Site Development:	CET 445, CET 460, CET 465	CET 365, CET 468, CET 470
	CET 325, CET 332, CET 420	CET 334, CET 408, CET 428

Important Notes:

- Effective fall 2013, students may choose between CET 410 or 450. However, structural students are required to take both.
- Declaring a concentration is not mandatory. However, if you do then you must take the 3 core elective courses from that area.
The remaining two courses can be taken from the other available concentrations. Alternatively, all courses maybe from the same area.
If a concentration is not declared, 3 core electives may be taken from any of the areas, the remaining 2 electives can be any CET elective
- Students interested in NCEES Fundamentals of Engineering (FE) examination are strongly encouraged to take:
 - MET 300 Thermodynamics
 - EET 350 Fundamentals of Electrical Technology
 - MET 310 Dynamics
- If English is your 2nd language then contact the CET Program Director.