CIVIL ENGINEERING Louisiana Tech University Curriculum as of 2022

Name	 Date	
CWID	 Email	@latech.edu

COUR	SF	PREREQUISITE	SCH	QTR	GRADE
CVEN		ENGR 122 or HNRS 122	1	QIII	R
OVEIV		MATH 112 or 240	3		R
		ENGR 122 or MEMT 206	3		R
		MEMT 313	3	Sp	R
		CHEM 102	3	W	R
		MEMT 212	3	VV	R R R
		CVEN 324	3	F	D
		ENGR 122	3	F	R
		CVEN 332	3	W	R
		MEMT 212	3	F	D D
		CVEN 302, 340	3	W	D D
		CVEN 340	3	VV	R R
		CVEN 492	1		N D
		ENGR 122, MATH 245	3	W	N I
		Jr Standing	3		K I
	401	4 out of 5 courses: CVEN 254, 310, 324, 332, 340		Sp F	R
		CVEN 492	1	-	R
			1	W	
DIOO		CVEN 493	1	Sp	R
BISC	101	OUEM 400	3		*
CHEM		CHEM 100	2		*
		CHEM 101	2		
		CHEM 100, 1010	1		*
		CHEM 1020, CHEM 103	1		
COMM		FYE 100o	3		
ENGL	101		3		
		ENGL 101	3		
		ENGL 102	3		
ENGR		MATH 2400, CHEM 1000	2		*
		ENGR 120, MATH 2410, CHEM 1010	2		*
		ENGR 121, MATH 2420	2		*
		ENGR 122, MATH 242, PHYS 201	3		R*
		ENGR 122, MATH 242, PHYS 201	3		
		ENGR 122, MATH 242	3		
MATH		MATH 240	3		*
		MATH 241	3		*
		MATH 242	3		
	244	MATH 243	3		*
		MATH 244	3		
MEMT		ENGR 220	3		R
	212	ENGR 220,MATH 241-243 GPA≥ 2.0	3	W	R*
	0.40	ENGR 222, MEMT 203,			=
	313	MATH 241-244 GPA > 2.0	3		R*
PHYS	201	Math 241	3		*
ELECTIV			J		
		INE 280, MUGN 290, or THTR 290)	3		
Directed F			3		
Directed E			3		
Directed E			3		
Humanity		<u> </u>	3		
Social Sci			3		
Social Sci			3		
		TER HOURS	128		
TOTAL	LINES	I LIVII OUTO	120		

	SUBSTITUTIONS										
	COURSE	SCH	GRADE								
1											
2											
2 3											
4											
5											
6											
7											
8											
9											
10											

	ADDITIONAL COURSES									
	COURSE	SCH	GRADE							
1										
2										
3										
4	_									
5										

	GPA	
Rubric GPA		
MATH 241-244 GPA		

Rubric GPA			
MATH 241-244 GPA			
	NOTES		

- requires grade of "C" or higher Credit or registration in
- R Course in rubric
- $\hfill\Box$ Should be taken within first year of enrollment
- 1 Directed electives must be selected in consultation with advisor, approved by Program Chair.
- 2 Petitions must be filed for substitutions.
- 3 A student must have a minimum 2.0 GPA on all hours pursued in courses designated: CVEN.

ADDITIONAL COMMENTS	

Advisor:		
MUVISUI.		

CIVIL ENGINEERING Louisiana Tech University

	FRESHMAN YEAR									
	Fall Quarter	Hr	Winter Quarter		Hr	Spring Quarter		Hr		
ENGR 120 *	Engineering Problem Solving I	2	ENGR 121 *	Engineering Problem Solving II	2	ENGR 122 *	Engineering Problem Solving III	2		
MATH 240 *	Precalculus	3	MATH 241 *	Calculus I	3	MATH 242 *	Calculus II	3		
CHEM 100 *	General Chemistry	2	CHEM 101 *	General Chemistry	2	PHYS 201 *	Physics for Engr & Science I	3		
COMM 101 □	Principles of Comm Studies	3	CHEM 103 *	General Chemistry Laboratory	1	ENGL 102	Freshman Composition II	3		
FYE 100	First Year Experience	1	ENGL 101	Freshman Composition I	3					
								Ш		
		11			11			11		

SOPHOMORE YEAR									
	Fall Quarter	Hr		Winter Quarter		Spring Quarter		Hr	
ENGR 221	Electrical Engineering & Circuits I	3	CVEN 302	CVEN Construction Materials	3	CVEN 254	Plane Surveying	3	
ENGR 220 *	Statics & Mechanics of Materials	3	MATH 244 *	Calculus IV	3	ENGR 222	Thermodynamics	3	
MATH 243 *	Calculus III	3	CHEM 102 *	General Chemistry	2	MATH 245	Differential Equations	3	
CVEN 200	Introduction to Civil Engineering	1	CHEM 104	General Chemistry Laboratory	1	ENGL 303	Technical Writing	3	
			MEMT 212 *	Inter. Statics & Mechanics of Materials	3				
		10			12	1		12	

JUNIOR YEAR									
	Fall Quarter	Hr	Hr Winter Quarter		Hr	Ir Spring Quarter		Hr	
CVEN 332	Highway Engineering I	3	CVEN 314	Environmental Engineering	3	CVEN 310	Water Resources I	3	
CVEN 340	Structural Analysis and Design	3	CVEN 333	Highway Engineering II	3	CVEN 324	Intro to Soils Engineering	3	
BISC 101	Fundamentals of Biology	3	CVEN 343	Reinforced Concrete Design	3	CVEN 344	Steel Design	3	
MEMT 203	Dynamics	3	MEMT 313 *	Elementary Fluid Mechanics	3	Social Science**		3	
		12	1		12			12	

	SENIOR YEAR								
Fall Quarter		Hr		Winter Quarter		r Spring Quarter		Hr	
CVEN 325	Intro to Foundation Engineering	3	CVEN 393	Numerical Methods in CVEN	3	CVEN 461	Civil Engineering Cnst Fund.	3	
CVEN 492	Civil Engineering Design I	1	CVEN 493	Civil Engineering Design II	1	CVEN 494	Civil Engineering Design III	1	
Fine Arts Appr	eciation	3	CVEN 345	345 Fundamentals of Professional Eng 1 Directed Elective◊		ve◊	3		
Humanity†		3	Directed Elective◊		3	Social Science	**	3	
			Directed Elective◊		3				
		10			11			10	

Neither MATH 240 nor CHEM 100 count towards the civil engineering degree.

 $\hfill\square$ must be taken within first year of enrollment

Courses in **bold** are *typically* offered only once per year.

†Humanities electives can be selected from Classical Studies, Communications, Foreign Languages, History, Literature, Philosophy, Religious Studies, Interdisciplinary

♦Directed Electives are chosen by student in consultation with faculty advisor and Program Chair. Students must take at least two from CVEN 423, 427, 440, 450C, (Topics in Bridge Engineering), 450C (MEMT 577), 450C (CVEN 504), 455, 464, and 466.

Students may take one from: CVEN 355, 358, 435, 436, 437, 438, 442, 450C (Rehab and Managing Buried Structures), 456, and 480.

^{*} requires grade of "C" or higher.

^{**}Social Science electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.