

**CIVIL ENGINEERING**  
Louisiana Tech University  
Curriculum as of 2019

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

Email \_\_\_\_\_@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
CVEN 254	MATH 112 or 240	3		R
302	ENGR 122	3		R
310	MEMT 313	3	Sp	R
314	CHEM 102	3	W	R
324	MEMT 212	3		R
325	CVEN 324	3	F	R
332	ENGR 122	3	F	R
333	CVEN 332	3	W	R
340	MEMT 212	3	F	R
343	CVEN 302, 340	3	W	R
344	CVEN 340	3		R
345	CVEN 492	1		R
392	ENGR 122, MATH 245	2	W	R
460	Jr Standing	2	Sp	R
492	4 out of 5 courses: CVEN 254, 310, 324, 332, 340	1	F	R
493	CVEN 492	1	W	R
494	CVEN 493	1	Sp	R
BISC 101		3		
CHEM 101	CHEM 100	2		*
102	CHEM 101	2		*
103	CHEM 100, 101○	1		
104	CHEM 102○, CHEM 103	1		
COMM 101		3		
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
ENGR 120	MATH 240○, CHEM 100○	2		*
121	ENGR 120, MATH 241○, CHEM 101○	2		*
122	ENGR 121, MATH 242○	2		*
220	ENGR 122, MATH 242, PHYS 201	3		R*
221	ENGR 122, MATH 242, PHYS 201	3		
222	ENGR 122, MATH 242	3		
MATH 241	MATH 240	3		*
242	MATH 241	3		*
243	MATH 242	3		*
244	MATH 243	3		*
245	MATH 244	3		
MEMT 203	ENGR 220	3		R
212	ENGR 220, MATH 241-243 GPA ≥ 2.0	3	W	R*
313	ENGR 222, MEMT 203, MATH 241-244 GPA ≥ 2.0	3		R*
PHYS 201	Math 241	3		*
<b>ELECTIVES</b>				
Art (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Natural Science	BISC 201 or 211, ENSC 211, FOR 230, or PHYS 202	3		
Humanity		3		
Social Science		3		
Social Science		3		
<b>TOTAL SEMESTER HOURS</b>		<b>128</b>		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
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 _____

NOTES
* requires grade of "C" or higher
○ credit or registration in
R course in rubric
□ must be taken within first year of enrollment
1 Directed electives must be selected in consultation with advisor.
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: \_\_\_\_\_

**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		
	11		11		11

SOPHOMORE YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
ENGR 221 Electrical Engineering & Circuits I	2	CVEN 302 Engineering 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
BISC 101 Fundamentals of Biology I	3	CHEM 104 General Chemistry Laboratory	1	ENGL 303 Technical Writing	3
	11	MEMT 212 * Inter. Statics & Mechanics of Material	3		
			12		12

JUNIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	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
Natural Science	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		12		12

SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
CVEN 325 Intro to Foundation Engineering	3	CVEN 392 Numerical Methods in Civil Engr	2	CVEN 460 Principles of Infrastructure Mgt	2
CVEN 492 Civil Engineering Design I	1	CVEN 493 Civil Engineering Design II	1	CVEN 494 Civil Engineering Design III	2
Fine Arts Appreciation	3	CVEN 345 Fundamentals of Professional Eng	1	Directed Elective◇	3
Humanity+	3	Directed Elective◇	3	Social Science**	3
	10	Directed Elective◇	3		
			10		10

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

\* requires grade of "C" or higher.

□ must be taken within first year of enrollment

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

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

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

◇Directed Electives chosen by student in consultation with faculty advisor