

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		
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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		
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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
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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