

CIVIL ENGINEERING
Louisiana Tech University
Curriculum as of 2016

Name _____

Date _____

CWID _____

Email _____@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
CVEN 202	MEMT 201	1		R
254	MATH 112 or 240	3		R
310	MEMT 313	3	Sp	R
314	CHEM 102, ENGL 303	3	W	R
324	ENGL 303, MEMT 211	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 202, 340	3	W	R
344	CVEN 340	3		R
345	Senior Standing	1		R
392	ENGR 122, MATH 245	2	W	R
460	Junior Standing	2	Sp	R
492	4 out of 5 courses: CVEN 254, 310, 324, 332,	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○	2		*
121	ENGR 120, MATH 241○	2		*
122	ENGR 121, MATH 242○	2		*
220	ENGR 122, MATH 242, PHYS 201	3		*
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 201	ENGR 122	2		
203	ENGR 220	3		
212	ENGR 220, MATH 241-243 GPA ≥ 2.0	3	W	*
313	ENGR 222, MEMT 203, MATH 241-244 GPA ≥ 2.0	3		*
PHYS 201	MATH 241	3		*
ELECTIVES				
Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Natural Scienc (BISC 211, ENSC 211, FOR 230, PHYS 202 or BISC 201)		3		
Humanity		3		
Social Science		3		
Social Science		3		
TOTAL SEMESTER HOURS		128		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

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	<input type="checkbox"/> Principlless of Communication	3	CHEM 103	* General Chemistry Laboratory	1	ENGL 102	Freshman Composition II	3
FYE 100	Freshman Year Experience	1	ENGL 101	Freshman Composition I	3			
		11			11			11

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CVEN 202	Civil Engineering Materials Lab	1	ENGR 221	Electrical Engineering & Circuits I	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
MEMT 201	Engineering Materials	2	CHEM 104	General Chemistry Laboratory	1	ENGL 303	Technical Writing	3
BISC 101	Fundamentals of Biology I	3	MEMT 212	* Inter. Statics & Mech. of Materials	3			
		12			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 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	CVEN 345	Fundamentals of Prof. Engineering	1
		12			12			10

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 Mgmt.	1
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	Directed Elective \diamond		3	Directed Elective \diamond		3
Humanities Elective***		3	Directed Elective \diamond		3	Social Science Elective**		3
		10	Social Science Elective**		3			9
		10			12			9

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.

\diamond Directed Electives chosen by the student in consultation with faculty advisor and approved by the Civil Engineer Program Chair.

**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 Language, History, Literature, Philosophy, Religious Studies.