CHEMICAL ENGINEERING

Louisiana Tech University Curriculum as of 2019 to Curernt

Name	Cumculant do of 2010 to Curcini	Date	_
CWID		Fmail	@latech.edu

COLLE	200	I DDEDFOLUEITE	0011	OTD	CDADE
COUR		PREREQUISITE	SCH	QTR	GRADE
CMEN	202	ENGR 1220, MATH 241	3		R*
	213	CMEN 2020, MATH 243	3		R*
	301	Sophomore Standing	1		R*
		CMEN 202, 213	3		R*
		CMEN 313, MATH 245, MATH GPA>2.0	3		R*
	313	CMEN 202, 213, ENGR 222, MATH 245	3		R*
	332	CMEN 202, ENGR 222	3		R*
	354	CMEN 3130	2		R*
		CMEN 202, Senior Standing	3		R*
		CMEN 202, Senior Standing	3		R*
		CMEN 202, 2130, ENGR 222	3		R*
	425	CMEN 202, MATH 245○	3		R*
	431	ENGR 220, 221, CMEN 213, 313, 332, 413	3		R*
	432	CMEN 431	2		R*
	434	CMEN 432	2		R*
	453	CMEN 313, 354, 413	2		R*
BISC	130		3		
CHEM	101	CHEM 100	2		*
	102	CHEM 101	2		*
		CHEM 100, 101o	1		*
		CHEM 103	1		*
		CHEM 102	2		*
		CHEM 250, CHEM 2530	2		*
		CHEM 251	2		*
	253	CHEM 102, 2510	1		*
COMM	101	0112M 102, 2010	3		
ENGL	101		3		
LINOL		ENGL 101	3		
		ENGL 102	3		
ENGR		MATH 240o, CHEM 100o	2		*
LINGIN		ENGR 120, MATH 2410, CHEM 1010	2		*
		ENGR 121, MATH 2420	2		*
		ENGR 121, MATH 2420 ENGR 122, MATH 242, PHYS 201	3		
		ENGR 122, MATH 242, PHYS 201			
		, ,	3		D+
		ENGR 122, MATH 242	3		R*
LUCT	425		1		
HIST	044	IMATIL 040	3		*
MATH		MATH 240	3		
		MATH 241	3		*
		MATH 242	3		*
		MATH 243	3		*
		MATH 244	3		*
PHYS		MATH 241	3		*
ELECTIV					
		INE 280, MUGN 290, or THTR 290)	3		
ENGL 36	3(or C	OMM 378)Prerequisite for ENGL 363: ENGL 303	3		
Directed I	Elective	e	3		R*
Directed I	Elective	e	3		R*
Directed	Electiv	8	3		R*
Social Sc	ience		3		
Social Sc	ience		3		
		TER HOURS	128		
				l	

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

	ADDITIONA	L COURSE	S
	COURSE	SCH	GRADE
1			
2			
3			
4			
5			

	GPA	
Rubric GPA		
MATH GPA (241-245)		

NOTES

- requires grade of "C" or higher credit or registration in
- course in rubric
- must be completed within first year of enrollment
- 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: CMEN, ENGR 222, and Directed Electives.

ADDITIONAL COMMENTS

CHEMICAL 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	CHEM 102	* General Chemistry	2			
COMM 101 □ Principles of Comm Studies	3	CHEM 103 *	General Chemistry Lab	1	CHEM 104	* General Chemistry Lab	1			
FYE 100 First Year Experience	1	ENGL 101	Freshman Composition I	3	ENGL 102	Freshman Composition II	3			
	11			11			11			
		1			1					

SOPHOMORE YEAR									
Fall Quarter	Hr		Winter Quarter	Hr	Hr Spring Quarter				
CMEN 202 * Chemical Engr Calculations	3	CHEM 251 *	Organic Chemistry	2	CMEN 213 * Unit Ops - Design I- Fluids	3			
CMEN 301 * CMEN Seminar	1	CHEM 253 *	Organic Chemistry Lab	1	CHEM 252 * Organic Chemistry	2			
CHEM 250 * Organic Chemistry	2	ENGR 222 *	Thermodynamics	3	ENGR 221 Electrical Engineering & Circuits I	3			
MATH 243 * Calculus III	3	ENGL 303	Technical Writing	3	MATH 245 * Differential Equations	3			
PHYS 201 * Physics for Engr & Sci I	3	MATH 244 *	Calculus IV	3					
	12			12		11			
		1							

JUNIOR YEAR									
Fall Quarter	Hr			Winter Quarter	Hr			Spring Quarter	Hr
CMEN 413 * Unit OpsDesign III -Separations	3	CMEN	313 *	Unit Ops-Design II-Heat Transfer	3	CMEN	302 *	Process Safety in Chemical Ind.	3
BISC 130 Biological Principles	3	CMEN	332 *	CMEN Thermodynamics II	3	CMEN	304 *	Transport Phenomena	3
Directed Elective◊	3	CMEN	354 *	Junior Lab	2	CMEN	425 *	Numerical Methods for CMEN	3
Social Science**	3	ENGR	220	Statics & Mechanics of Materials	3	ENGL	363	Science & Technical Presentations	3
	12				11			(May take Comm 378 instead)	12
		1							

SENIOR YEAR										
Fall Quarter			Hr		Winter Quarter	Hr	Spring Quarter	Hr		
CMEN	402 *	Chemical Reaction Engineering	3	CMEN 407 *	Instrum & Auto Process Control	3	CMEN 434 * Chemical Plant Design III	2		
CMEN	431 *	Chemical Plant Design I	3	CMEN 432 *	Chemical Plant Design II	2	Directed Elective ◊	3		
CMEN	453 *	Senior Chemical Engineering Lab	2	Directed Electi	ive ◊	3	Fine Arts Appreciation	3		
ENGR	425 *	Engr Ethics and Professionalism	1	History Elective	e	3	Social Science**	3		
			9			11	-	11		

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

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

Political Science, Psychology, and Sociology.

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

 $\ensuremath{\diamond}\xspace \ensuremath{\mathsf{Directed}}\xspace$ Electives are selected by student in consultation with academic advisor.

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

 $[\]hfill\square$ Must be completed within first year of enrollment.

^{**}Social Science electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies,