## **CHEMICAL ENGINEERING**

Louisiana Tech University

Name	Curriculum 2023 to present	Date	
CWID		Email	@latech.edu

COURSE		PREREQUISITE	SCH	QTR	GRADE			
CMEN		ENGR 122, MATH 242	3	WIIV	R*			
CIVILIN		CMEN 2020, MATH 243	3		R*	+		
		Sophomore Standing	1		R*	+		
		CMEN 202, 213	3		R*	+		
		CMEN 313, MATH 245, MATH GPA>2.0	3		R*	+		
		CMEN 202, 213, ENGR 222, MATH 245	3		R*	+		
		CMEN 202, 213, ENGR 222, WATTT 243	3		R*	+		
		CMEN 3130	2		R*	+		
		CMEN 202, Senior Standing	3		R*	+		
		CMEN 202, Senior Standing CMEN 202, Senior Standing				+		
			3		R*	+		
		CMEN 202, 213°, ENGR 222	3		R*	+		
		CMEN 202, MATH 2450	3		R*	-		
		ENGR 221, CMEN 213, 313, 332, 413	3		R*	-		
		CMEN 431	2		R*	-		
		CMEN 432	2		R*	+		
		CMEN 313, 354, 413	2		R*			
BISC	130		3					
CHEM		CHEM 100	2		*			
		CHEM 101	2		*			
		CHEM 100, 1010	1		*			
		CHEM 103	1		*			
	250	CHEM 102	2		*			
	251	CHEM 250, CHEM 2530	2		*			
	252	CHEM 251	2		*			
	253	CHEM 102, 2510	1		*			
COMM	101		3					
ENGL	101		3					
	102	ENGL 101	3					
	303	ENGL 102	3					
ENGR	120	MATH 2400, CHEM 1000	2		*			
		ENGR 120, MATH 2410, CHEM 1010	2		*			
		ENGR 121, MATH 2420	2		*			
		ENGR 122, MATH 242, PHYS 201	3					
		ENGR 122, MATH 242, PHYS 201	3					
		ENGR 122, MATH 242	3		R*			
	425		1		*			
HIST	720		3			+		
MATH	241	MATH 240	3		*			
IVI/ATTI		MATH 240	3		*	+		
		MATH 241	3		*	+		
		MATH 243	3		*	+		
		MATH 244	3		*	+		
PHYS		MATH 241	3		*	+		
		INVITE Z41	3					
ELECTIV		INIT 200 MILON 200 TUTD 200	2					
		INE 280, MUGN 290, or THTR 290)	3			+		
		OMM 378)Prerequisite for ENGL 363: ENGL 303	3		D.	+		
Directed I	=lective	9	3		R*	+		
Directed B	Elective	9	3		R*	+		
Directed I	=lective	9	3		R*	-		
Social Sc	ience		3					
Social Sc	ience		3					
TOTAL S	<b>EMES</b>	TER HOURS	128					

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

	ADDITIONAL COURSES									
	COURSE	SCH	GRADE							
1										
2										
3										
4										
5										

GP	'A
Rubric GPA	#DIV/0!
MATH GPA (241-245)	#DIV/0!

## NOTES

- \* requires grade of "C" or higher
- o credit or registration in
- R course in rubric
- $\hfill \square$  must be completed 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: CMEN, ENGR 222, and Directed Electives.

ADDITIONAL COMMENTS							

Advisor:		
AUVISUI.		

## **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 12	2 *	Engineering Problem Solving III	2			
MATH 240 * Precalculus	3	MATH 241 *	Calculus I	3	MATH 24	2 *	Calculus II	3			
CHEM 100 * General Chemistry	2	CHEM 101 *	General Chemistry	2	CHEM 10	2 *	General Chemistry	2			
COMM 101   Principles of Comm Studies	3	CHEM 103 *	General Chemistry Lab	1	CHEM 10	4 *	General Chemistry Lab	1			
FYE 100 First Year Experience	1	ENGL 101	Freshman Composition I	3	ENGL 10	2	Freshman Composition II	3			
	11			11				11			
		1			1			Г			

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

JUNIOR YEAR										
Fall Quarter	Hr	Hr Winter Quarter			Hr			Spring Quarter	Hr	
CMEN 413 * Unit OpsDesign III -Separations	3	CMEN	313 *	Unit Ops-Design II-Heat Transfer	3	CMEN 3	802 *	Process Safety in Chemical Ind.	3	
BISC 130 Biological Principles	3	CMEN	332 *	CMEN Thermodynamics II	3	CMEN 3	804 *	Transport Phenomena	3	
Directed Elective◊	3	CMEN	354 *	Junior Lab	2	CMEN 4	125 *	Numerical Methods for CMEN	3	
Social Science**	3	ENGR	220	Statics & Mechanics of Materials	3	ENGL 3	863	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 Elective ◊	3	Fine Arts Appreciation	3				
ENGR	425	* Engr Ethics and Professionalism	1	History Elective	3	Social Science**	3				
			9		11		11				

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

☐ Must be completed 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,

Political Science, Psychology, and Sociology.

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

Religious Studies, Interdisciplinary.

♦Directed Electives are selected by student in consultation with academic advisor.

<sup>\*</sup> Requires grade of "C" or higher.