

B.S. in Chemical Engineering from UND with St. Thomas University (STU)

FIRST YEAR FALL	Credits	Taken	UND Course
UNI 101: First Year Experience	1	STU	
MAC 2311: Calculus I	4	STU	See Below ²
CHM 1045/L: General Chemistry I & Lab	3	STU	See Below ¹
Approved GER Course	3	STU	
Approved GER Course	3	STU	
Approved GER Course	3	STU	

FIRST YEAR SPRING	Credits	Taken	UND Course
MAC 2312: Calculus II	4	STU	See Below ²
CHM 1046/L: General Chemistry II & Lab	4	STU	See Below ¹
Approved GER Course	3	STU	
CHE 102: Intro to Chemical Engineering	2	UND	
CHE 103: Computing Tools for Chemical Engineers	3	UND	

SECOND YEAR FALL	Credits	Taken	UND Course
MAC 2313: Calculus III	4	STU	MATH 265
PHY 2048/L: University Physics I & Lab	4	STU	PHYS 251
Approved GER Course	3	STU	
ENGR 206: Fundamentals of EE	3	UND	
CHE 201: Chemical Engr. Fundamentals	3	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
PHY 2049/L: University Physics II & Lab	4	STU	PHYS 252
MAP 2302: Differential Equations	3	STU	MATH 266
Approved GER Course	3	STU	
CHE 206: Unit Operations in Chem. Engr.	3	UND	
LEAD 101: Learning Leadership	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
Approved GER Course	3	STU	
Approved GER Course	3	STU	
CHM 2210/L: Organic Chemistry I & Lab	4	STU	CHEM 341/L
CHE 301: Intro to Transport Phenomena	4	UND	
CHE 303: Chemical Engr. Thermo.	4	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
Approved GER Course	3	STU	
Approved GER Course	3	STU	
Approved GER Course	3	STU	
CHE 305: Separations	3	UND	
CHE 321: Chemical Engr. Reactor Design	3	UND	
CHE 315: Engineering Statistics and Design Experiments	3	UND	

College of Engineering & Mines Curriculum Information

FOURTH YEAR FALL	Credits	Taken	UND Course
PHY 303: Physics of Materials	3	STU	Material Science (waiver)
Approved Ethics Course ³	3	STU	ENGR 340
CHE 411: Plant Design I: Process Design and Economics	3	UND	
CHE 408: Process Dynamics and Control	3	UND	
CHEM 466: Fundamentals of Physical and Biophysical Chemistry	3	UND	
Approved Advanced Chemical Science Elective	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
Approved GER Course	3	STU	
CHE 413: Plant Design II: Preliminary Process Project Engr.	5	UND	
CHE 416: Chemical Product Design	3	UND	
Approved Advanced Chemical Science Elective	3	UND	
Approved Technical Elective	3	UND	

SUMMER LABS (ON UND CAMPUS)	Credits	When to Take
CHE 235: Chemical Summer Engineering Lab I	3	After Third Year Spring
CHE 335: Chemical Engineering Summer Lab II	3	After Fourth Year Spring
CHE 431: Chemical Engineering Lab IV	3	After Fourth Year Spring
CHE 414: Plant Design II: Conceptual Process Project Engineering ⁴	2	After Fourth Year Spring

NOTES	¹ CHM 1045 and CHM 1046 combine for equivalency to CHEM 121 and CHEM 122 from UND, and CHM 1045L and CHM 1046L combine for equivalency to CHEM 121L and CHEM 122L from UND.
	² MAC 2311 and MAC 2312 must both be completed for equivalency to UND's MATH 165 and 166
	³ Students may choose from STU's PHI 3609, PHI 3633, PHI 3640, or PHI 3641 in order to fulfill ENGR 340: Professional Integrity in Engineering requirement at UND.
	⁴ Course must be taken online/remotely from UND during Summer semester.