

B.S. in Chemical Engineering from UND and B.S. in Chemistry from Siena Heights University (SHU)

FIRST YEAR FALL	Credits	Taken	UND Course
GE SS Social Science	3	SHU	
CHE 141: General Chemistry	4	SHU	CHEM 121/L
MAT181: Calculus I	4	SHU	MATH 165
ENG 101: Reading & Writing I	3	SHU	
LAS 130: First Year Experience	3	SHU	

SECOND YEAR FALL	Credits	Taken	UND Course
PHY 161: Physics I	4	SHU	PHYS 251
CHE 241: Organic Chemistry I	4	SHU	CHEM 341/L
MAT 292: Multivariable Calculus	4	SHU	MATH 265
CHE 201: Chemical Engineering Fundamentals	3	UND	
CHE 102: Intro to Chemical Engineering	2	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
LAS 241: Inquiry & Truth	3	SHU	
CHE 341: Physical Chemistry I	3	SHU	CHEM 466
CHE 395: Junior Seminar I	1	SHU	
CHE 301: Intro to Trans. Phenomena	4	UND	
CHE 303: Chemical Engineering Thermodynamics	4	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
CHE 142: General Chemistry II	4	SHU	CHEM122/L
MAT 182: Calculus II	4	SHU	MATH 166
ENG 102: Reading & Writing II	3	SHU	
LAS 141: Diversity in Community	3	SHU	
ENR 150: Statics	3	SHU	Technical Elective

SECOND YEAR SPRING	Credits	Taken	UND Course
CHE 242 Organic Chemistry II	4	SHU	Advanced Chemical Science Elective
MAT 282 Differential Equations	4	SHU	MATH 266
PHY 162 Physics II	4	SHU	PHYS 252
CHE 206 Unit Oper. in Chemical Eng.	3	UND	
CHE 103 Comp Skills for Chem. Eng.	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
ENR 348: Data Analysis and Statistics	3	SHU	CHE 315
CHE 396: Junior Seminar II	1	SHU	
CHE 342: Physical Chemistry II	3	SHU	Advanced Chemical Science Elective
CHE 351: Intro to Computational Chemistry	1	SHU	
CHE 305: Separations	3	UND	
CHE 321: Chemical Engr. Reactor Design	3	UND	
LEAD 101: Learning Leadership	3	UND	

College of Engineering & Mines Curriculum Information

FOURTH YEAR FALL	Credits	Taken	UND Course
LAS 341: Contemplation & Action	3	SHU	
CHE 350: Analytical Chemistry	4	SHU	
CHE 495: Senior Seminar I	1	SHU	
CHE 408: Process Dyn. & Control	3	UND	
CHE 411: Plant Design I	4	UND	
ME 301: Materials Science	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
ENR 270: Circuit Analysis	4	SHU	EE 206/L
RST 314: World Religions	3	SHU	
CHE 496: Senior Seminar II	1	SHU	
ENGR 340: Prof Integrity in Engineering	3	UND	
CHE 413: Plant Design II: Preliminary Process Project Engineering	5	UND	
CHE 416: Chemical Product Design	3	UND	

SUMMER CLASSES & LABS	Credits	Taken	When to Take
GE FP Fine/Performing Art	3	SHU	After Third Year Spring
CHE 235: CHE Summer Lab I	3	UND	After Third Year Spring
LAS 441: Justice & Peace	3	SHU	After Fourth Year Spring
CHE 431: Chemical Eng Lab IV	3	UND	After Fourth Year Spring
CHE 335: Summer Lab II	3	UND	After Fourth Year Spring
CHE 414: Plant Design II- Conceptual Process Project Engineering	2	UND	After Fourth Year Spring

NOTES	UND's summer labs require traveling to UND's campus.
	ENR 348 will replace MAT 174. CHE 232, 331, and 332 replace CHE 441 requirement.

Plans have been updated as of 6/30/2023