

## 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 100: First Year Experience	1	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 249: Engineering Mech 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 I	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

<b>FOURTH YEAR FALL</b>	Credits	Taken	UND Course
LAS 341: Contemplation & Action	3	SHU	
CHE 350: Analytical Chemistry I	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	

<b>FOURTH YEAR SPRING</b>	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	

<b>SUMMER CLASSES &amp; LABS</b>	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.