

B.S. in Chemical Engineering from UND and B.S. in Chemistry from McMurry University (McM)

FIRST YEAR FALL	Credits	Taken	UND Course
CHEM 1410: General Chemistry I	4	McM	*See Comb. Below
MATH 2421 Calculus I	4	McM	MATH 165
ENGL 1310: Composition & Rhetoric	3	McM	
ACAD 1340: Freshman Seminar	3	McM	

SECOND YEAR FALL	Credits	Taken	UND Course
CHEM 3410: Organic Chemistry I	4	McM	CHEM 341/L
PHYS 2510: University Physics I	5	McM	PHYS 251
MATH 2340: Linear Algebra	3	McM	Tech. Elective (Math 207)
CHEM 2430: Quantitative Analysis	4	McM	ACS Elective

THIRD YEAR FALL	Credits	Taken	UND Course
CHEM 3431: Physical Chemistry I	4	McM	CHEM 466
MATH 3341: Ord. Differential Equations	3	McM	MATH 266
Gen. Ed. Elective	3	McM	
CHE 201: Chemical Engr. Fundamentals	3	UND	
ENGR 206: Fundamentals of Elect. Engr.	3	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
CHEM 1420: General Chemistry II	4	McM	*See Comb. Below
MATH 2322: Calculus II	3	McM	MATH 166
ENGL 1320: Composition & Literature	3	McM	
COMM 1310: Principles of Communication	3	McM	
CHE 102: Intro to Chem. Engineering	2	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
CHEM 3420: Organic Chemistry II	4	McM	ACS Elective
PHYS 2520: University Physics II	5	McM	PHYS 252
MATH 3301: Multivariable Calculus	3	McM	MATH 265
General Education Elective	3	McM	
CHE 103: Computing Tools for Chemical Engineers	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
CHEM 3432: Physical Chemistry II	4	McM	
SRLD 1310: Concepts and Tech. of Servant Leadership	3	McM	**LEAD 101 (waiver)
CHE 315: Engineering Statistics and Design of Exp.	3	UND	
CHE 206: Intro to Unit Operations	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
CHEM 3480: Found. Inorganic Chemistry	4	McM	
CHE 301: Intro to Transport Phenomena	4	UND	
Materials Science Elective	3	UND	
CHE 303: Chem. Engr. Thermodynamics	4	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
Christian Tradition Elective	3	McM	
Fine Arts Elective	3	McM	
General Education Elective	3	McM	
CHE 305: Separations	3	UND	
CHE 321: Chemical Engr. Reactor Design	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
CHEM 3441: Biochemistry I	4	McM	
CHEM 4101: Chemistry Seminar	1	McM	
Gen. Ed. Elective	3	McM	
CHE 408: Process Dyn. & Control	3	UND	
CHE 411: Plant Design I	4	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
SRLD 1300: Introduction to Ethics	3	McM	ENGR 340
General Education Elective	3	McM	
CHEM 4102: Senior Project	1	McM	
CHE 413: Plant Design II: Prelim. Proc. Proj. Engr.	3	UND	
CHE 416: Chemical Product Design	3	UND	

SUMMER LABS (ON UND CAMPUS)	Credits	When to Take
CHE 235: Chemical Engineering Summer Lab I	3	After Junior Spring
CHE 335: Chemical Engineering Summer Lab II	3	After Senior Spring
CHE 431: Chemical Engineering Lab IV	3	After Fifth Year Spring
SUMMER COURSES (Only Offered Remotely in Summer)		
CHE 414: Plant Design II: Conceptual Process Project Engr	2	After Fifth Year Spring

NOTES	
	*CHEM 1410 and 1420 must both be completed for equivalency to UND's CHEM 121/L and CHEM 122/L
	**SRLD 1310: Concepts and Techniques of Servant Leadership will be acceptable as substitute for LEAD 101, but is not considered equivalent.