

## B.S. in Mechanical Engineering from UND and B.S. in Physics from McMurry University (McM) – Odd Year Start

FIRST YEAR FALL	Credits	Taken	UND Course
PHYS 2510: University Physics I	5	McM	PHYS 251
MATH 2421: Calculus I	4	McM	MATH 165
ACAD 1340: Freshman Seminar	3	McM	
ENG 1310: Composition and Rhetoric	3	McM	ENGL 110
PHYS 1200: Introduction to Engineering	2	McM	ME 201

SECOND YEAR FALL	Credits	Taken	UND Course
PHYS 3300: Modern Physics	3	McM	
MATH 2340: Linear Algebra	3	McM	
PHYS 2310: Automated Experiments	3	McM	
MATH 3341: ODE	3	McM	MATH 266
PHYS 3315: Engineering Statics	3	McM	ENGR 201
Gen. Ed. Course	3	McM	

THIRD YEAR FALL	Credits	Taken	UND Course
PHYS 4300: Classical Mechanics	3	McM	
CHEM 1410: General Chemistry I	4	McM	See Comb. Below
PHYS 4362: Thermodynamics II	3	McM	See Comb. Below
PHYS 3335: Mechanics of Materials	3	McM	ENGR 203
ENGR 206: Fundamentals of Electrical Engineering	3	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
PHYS 2520: University Physics II	5	McM	PHYS 252
MATH 2322: Calculus II	3	McM	MATH 166
ENG 1320: Composition and Literature	3	McM	
Approved Comm. Course	3	McM	
PHYS 2315: Computer Aided Design	3	McM	

SECOND YEAR SPRING	Credits	Taken	UND Course
MATH 3301: Multivariate Calculus	3	McM	MATH 265
PHYS 4360: Thermodynamics	3	McM	See Comb. Below
CSC 1306: Programming for Non-Majors	3	McM	
PHYS 3325: Engineering Dynamics	3	McM	ENGR 202
MATH 4351: Calculus-Based Probability and Statistics	3	McM	MATH 321
ME 101: Introduction to Mechanical Engineering	3	UND	See Note*

THIRD YEAR SPRING	Credits	Taken	UND Course
CHEM 1420: General Chemistry II	4	McM	See Comb. Below
SRLD 1300: Introduction to Ethics	3	McM	ENGR 340
PHYS 3270: Adv. Lab	2	McM	
PHYS 4175: Research Proposal	1	McM	See Comb. Below
PHYS 4344: Heat Transfer	3	McM	ME 474
ENGR 200: Computer Applications in Engineering	2	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PHYS 4310: Electricity and Magnetism	3	McM	ME Tech Elective
PHYS 4275: Research Project	2	McM	See Comb. Below
PHYS 4325: Fluid Mechanics	3	McM	ME 306
ME 301: Materials Science	3	UND	
ME 322: Design of Machinery	3	UND	See Note**
ME Technical Elective	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
Gen. Ed. Course	3	McM	
Gen. Ed. Course	3	McM	
ME 487: Engineering Design	2	UND	
ME 480: Mechanical Engineering Seminar	3	UND	
ME Technical Elective – M&M	3	UND	
ME Technical Elective – Thermal	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
Gen. Ed. Course	3	McM	
Gen. Ed. Course	3	McM	
ME 418: Manufacturing Processes	3	UND	
ENGR 460: Engineering Economy	3	UND	
ME 323/L: Manufacturing Processes and Lab	4	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Gen. Ed. Course	3	McM	
ME 488: Engineering Design	3	UND	
ME Technical Elective- Mech. Design	3	UND	
ME Technical Elective	3	UND	
ME Technical Elective	3	UND	

SUMMER LABS (ON UND CAMPUS)	Credits	When to Take
ME 418L: Manufacturing Processes Lab	1	After Senior Spring
ME 483: Mechanical Measurements Lab	3	After Senior Spring

NOTES	CHEM 1410 and CHEM 1420 combined are equivalent to CHEM 121/L and CHEM 122/L at UND
	PHYS 4360 and PHYS 4362 combined are equivalent to ME 341 at UND
	*Course transfers to McMurry to fulfill Engineering Ethics/PHYS 2105
	**Course transfers to McMurry to fulfill Engineering Elective Requirement
	It is imperative that students work with UND advisor to make sure Professional Degree Program requirements are met prior to Senior Fall semester. If they are not, students will be delayed.