

B.S. in Mechanical Engineering from UND and B.S. in Mathematics from Marymount University (MU)

FIRST YEAR FALL	Credits	Taken	UND Course
DSC 201: New Student Seminar	1	MU	
CHM 151: Principles of Chemistry I	3	MU	CHEM 121
CHM 151L :Principles of Chemistry I Lab	1	MU	CHEM 121L
EN 101: Composition I	3	MU	
MA 181: Calculus I ¹	4	MU	MATH 165
TRS 100: Theological Inquiry	3	MU	

SECOND YEAR FALL	Credits	Taken	UND Course
MA 210: Seminar w/ Intro to Proofs	3	MU	
PHYS 271: General Physics I	3	MU	PHYS 251
PHYS 271L: General Physics I Lab	1	MU	
SOC 131: Principles of Sociology	3	MU	
Approved HI-1 Introductory History Course	3	MU	
Approved TRS-2 Adv. Theology/Rel. Stud. Course	2	MU	
ENGR 200: Computer Applications in Engineering	2	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
MA 309: Mathematics Seminar	1	MU	
MA 230: Scientific Computing	3	MU	
MA 425: Introduction to Real Analysis	3	MU	
Approved SS-1 Intro. Social Science Course	3	MU	
ENGR 202: Dynamics	3	UND	
ME 341: Thermodynamics	3	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
MA 200: Calculus II	3	MU	MATH 166
MA 218: Probability and Statistics	3	MU	MATH 321
EN 102: Composition II	3	MU	
PH 100: Introduction to Philosophy	3	MU	
IT 130: Java Programming	3	MU	
ME 101: Introduction to Mech. Eng.	3	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
MA 221: Multivariable Calculus ²	4	MU	MATH 265
PHYS 272: General Physics II	3	MU	PHYS 252
PHYS 272L: General Physics II Lab	1	MU	
Approved LT-1 Introductory Literature Course	3	MU	
MA 215: Linear Algebra ²	3	MU	
ENGR 201: Statics	2	UND	
ME 201C: Student Design Lecture	1	UND	

THIRD YEAR SPRING ³	Credits	Taken	UND Course
MA 257: Intro to Number Theory ²	3	MU	
MA 418: Stochastic Modeling ^{2,4}	3	MU	
ENGR 203: Mechanics of Materials	3	UND	
ENGR 206: Fund. of Electrical Eng.	3	UND	
ENGR 460: Engineering Economy	3	UND	
ME 322: Design of Machinery	3	UND	

College of Engineering & Mines Curriculum Information

FOURTH YEAR FALL	Credits	Taken	UND Course
MA 420: Abstract Algebra ⁵	3	MU	
MA 409: Mathematics Seminar	1	MU	
MATH 266: Elementary Differential Equations ⁶	3	UND	
ME 301: Materials Science	3	UND	
ME 306: Fluid Mechanics	3	UND	
Approved ME Technical Elective ⁷	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
LS 400: Internship	3	MU	
Advanced Humanities Course	3	MU	
ME 480: Mechanical Eng. Seminar	3	UND	
ME 487: Engineering Design	2	UND	
Approved ME Technical Elective ⁷	3	UND	
Approved ME Technical Elective ⁷	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
Approved SS-2 Adv. Social Science Course	3	MU	
Approved Advanced Humanities Course	3	MU	
ME 418: Manufacturing Processes	3	UND	
ME 323: Machine Component Design	3	UND	
ME 323L: Machine Comp. Design Lab	1	UND	
ME 474: Fun. of Heat and Mass Transfer	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Approved PH-E Philosophy Ethics Course ⁸	3	MU	ENGR 340
Me 488: Engineering Design	3	UND	
Approved ME Technical Elective ⁷	3	UND	
Approved ME Technical Elective ⁷	3	UND	
Approved ME Technical Elective ⁷	3	UND	

SUMMER LABS (ON UND CAMPUS)	Credits	When to Take
ME 201CL: Student Design Lab	1	After Second Year Spring
ME 418L: Manufacturing Processes Lab	1	After Fourth Year Spring
ME 483: Mechanical Measurements Lab	3	After Fourth Year Spring

NOTES	
	¹ Marymount's MA 171 and MA 172 will combine to be equivalent to UND's MATH 165 if students pursue that route.
	² Course taken will depend to when student begins degree. MA 221 and MA 215 are only offered in spring of odd years; MA 257 and MA 418 only offered spring of even years.
	³ Students will need to have submitted Professional Degree Plan form for Provisional Acceptance prior to registering for Third Year Spring; per the department, ENGL 110 and 130 requirements are waived
	⁴ One upper level Math course will fulfill one of the seven required Technical Electives in UND's Mechanical Engineering major; course is considered at-large, and does not fulfill any of the stem requirements.
	⁵ MA 420 only offered in fall of even years
	⁶ Students will take MATH 266 at UND, and will transfer back to MU to fulfill MA 325 requirement
	⁷ A total of seven technical electives are required, equaling 21 credits. One course may be transferred in (see note 4). A minimum of one course in each stem (Mechanical Design, Manufacturing & Materials, and Thermal Sciences) is required.
	⁸ Applicable equivalencies include PH 305-B, PH 303-A, PH 313-A, PH 307-A, PH 309-A, PH 311-OL3. Other courses will not be accepted for equivalency.
	Note: Marymount's MA 171 and MA 172 will combine to be equivalent to UND's MATH 165 if students pursue that route.