

## B.S. in Mechanical Engineering from UND and B.S. in Engineering Praxis from Piedmont College (Piedmont)

FIRST YEAR FALL	Credits	Taken	UND Course
MATH 2450: Calculus I	4	Piedmont	MATH 165
PHYS 2110: General Physics I	4	Piedmont	PHYS 251
ENGL 1101: Rhetoric & Composition	3	Piedmont	
MCOM 1110: Public Speaking	3	Piedmont	
PBMT 1101: Intro to College Life	1	Piedmont	

FIRST YEAR SPRING	Credits	Taken	UND Course
Math 2460: Calculus II	4	Piedmont	MATH 166
PHYS 2120: General Physics II	4	Piedmont	PHYS 252
ENGL 1102: Literature & Composition	3	Piedmont	
BUSA 1210: Microeconomics	3	Piedmont	
Approved Fine Arts Elective	3	Piedmont	

SECOND YEAR FALL	Credits	Taken	UND Course
MATH 2470: Calculus III	4	Piedmont	MATH 265
CHEM 1101/CLAB 1101: General Chemistry I & Lab	4	Piedmont	CHEM 121/L
CSCI 1301: Programing Principles I	3	Piedmont	
Approved Modern Language I	3	Piedmont	
ME 101: Intro to Mechanical Engr.	3	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
MATH 2480: Differential Equations	3	Piedmont	MATH 266
CHEM 1102/CLAB 1102: General Chemistry II & Lab	4	Piedmont	CHEM 122/L
PENG 2000: Engineering Statics	3	Piedmont	ENGR 201
Approved Modern Language II	3	Piedmont	
ME 201C: Student Design	1	UND	
ENGR 200: Comp. Applications in Engr.	2	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
MATH 2600: Linear Algebra	3	Piedmont	
Approved Upper Level Physics Elective	3	Piedmont	
PHYS 3010: Advanced Physics Lab I	1	Piedmont	
ENGR 202: Dynamics	3	UND	
ENGR 203: Mechanics of Materials	3	UND	
ME 341: Thermodynamics	3	UND	

THIRD YEAR SPRING <sup>1</sup>	Credits	Taken	UND Course
Approved Upper Level Physics Elective <sup>2</sup>	3	Piedmont	
ME 306: Fluid Mechanics	3	UND	
ME 322: Design of Machinery	3	UND	
ME 323/L: Machine Component Design	4	UND	
ENGR 206: Fund. of Electrical Engr.	3	UND	

<b>FOURTH YEAR FALL</b>	Credits	Taken	UND Course
POSC 1101: American Government	3	Piedmont	
ME 301: Materials Science	3	UND	
Approved ME Tech Elective	3	UND	
MATH 321: Applied Statistical Methods	3	UND	
ENGR 460: Engineering Economy	3	UND	

<b>FIFTH YEAR FALL</b>	Credits	Taken	UND Course
Approved Literature Elective	3	Piedmont	
ME 487: Engineering Design I	2	UND	
ME 480: Mechanical Engineering Seminar	3	UND	
Approved ME Technical Elective	3	UND	
Approved ME Technical Elective – Mech. Design	3	UND	

<b>FOURTH YEAR SPRING</b>	Credits	Taken	UND Course
Approved Critical Thinking Elective	3	Piedmont	
PHIL/RELG 3305: Ethics	3	Piedmont	ENGR 340
ME 474: Fundamentals of Heat and Mass	3	UND	
ME 418: Manufacturing Processes	3	UND	
Approved ME Tech Elective – Thermal Sciences	3	UND	

<b>FIFTH YEAR SPRING</b>	Credits	Taken	UND Course
Approved History Elective	3	Piedmont	
ME 488: Engineering Design II	3	UND	
Approved ME Technical Elective – Manufacturing & Materials	3	UND	
Approved ME Technical Elective	3	UND	

<b>SUMMER LABS (ON UND CAMPUS)</b>	Credits	When to Take
ME 201L: 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	<sup>1</sup> Student will need to apply for provisional acceptance into Professional Degree Program at UND in order to register for courses in this semester. UND ME Department will waive ENGL 110/130 requirements for PDP Application as long as student has ENGL 1101 and ENGL 1102 successfully completed from Piedmont.
	<sup>2</sup> Three credits of a single 300+ Physics course can count towards one of the ME Technical Electives. This elective is not part of any STEM field, but is a general Tech Elective.