

# College of Engineering & Mines Curriculum Information

## LCMC Plan for Combined B.S. in Mechanical Engineering from University of North Dakota (UND) and B.A. in Physics from Adrian College (AC)

FIRST YEAR FALL	Credits	Taken	UND Course
MATH 135: Calc. and Analytic Geom. I	4	AC	See Below <sup>1</sup>
CCC 101: College Writing and Inquiry	3	AC	
ESAT 100: Principles of Fitness	2	AC	
Distribution/Skills/Writing	3	AC	
CHM 105/117: Gen. Chemistry I & Lab	4	AC	CHEM 121/L

SECOND YEAR FALL	Credits	Taken	UND Course
MATH 215: Calculus III	4	AC	MATH 265
MLC XXX: Approved Language Skills I	4	AC	
PHYS 205/209: General Physics I & Lab	4	AC	See Below <sup>2</sup>
ME 101: Intro to Mechanical Engineering	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
PHYS 401: Classical Mechanics	3	AC	
ENGR 201: Statics	3	UND	
ENGR 206: Fund. of Elec. Engineering	3	UND	
ME 341: Thermodynamics	3	UND	
MATH 321: Applied Statistical Methods	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PHYS 370: Modern Physics	3	AC	
PHYS 390: Astrophysics	3	AC	
PHIL 304: Ethics	3	AC	ENGR 340
ME 301: Materials Science	3	UND	
ME 306: Fluid Mechanics	3	UND	
ME 322: Design of Machinery	3	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
Distribution/Skills/Writing	3	AC	
Distribution/Skills/Writing	3	AC	
CCC 102: Public Speaking	3	AC	
MATH 205: Calculus II	4	AC	See Below <sup>1</sup>

SECOND YEAR SPRING	Credits	Taken	UND Course
MATH 305: Differential Equations	3	AC	MATH 266
PHYS 206/210: General Physics II & Lab	4	AC	See Below <sup>2</sup>
Distribution/Skills/Writing	3	AC	
MLC XXX: Approved Language Skills II	4	AC	
ENGR 200: Comp. App. in Engineering	2	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
PHYS 420: Experimental Physics I	2	AC	
PHYS 403: Electromagnetic Theory I	3	AC	
ENGR 202: Dynamics	3	UND	
ME 201C: Student Design	2	UND	
ENGR 203: Mechanics of Materials	3	UND	
ENGR 460: Engineering Economy	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
PHYS 410: Quantum Mechanics	3	AC	
ME 323/L: Machine Comp. Design/Lab	4	UND	
ME 418: Manufacturing Processes	3	UND	
ME 474: Fund. of Heat and Mass Tran.	3	UND	
Technical Elective <sup>4</sup>	3	UND	See below <sup>4</sup>

FIFTH YEAR FALL	Credits	Taken	UND Course
PHYS 320: Electronics	3	AC	
Distribution/Skills/Writing	3	AC	
ME 480: Mechanical Engr. Seminar	3	UND	
ME 487: Engineering Design	2	UND	
Technical Elective	3	UND	
Technical Elective	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Remaining Distribution or 300/400 Elec.	3	AC	
ME 488: Engineering Design	3	UND	
Technical Elective	3	UND	
Technical Elective	3	UND	
Technical Elective	3	UND	
Technical Elective	3	UND	

SUMMER COURSE REQUIREMENTS			
Course	Credits	When to Take	Taken
ME 201L: Student Design Lab	1	After Third Year Spring	On-Campus at UND
ME 418L: Manufacturing Processes Lab	1	After Fourth Year Spring	On-Campus at UND
ME 483: Mechanical Measurements Lab	3	After Fourth Year Spring	On-Campus at UND

NOTES	<sup>1</sup> Math 135 and MATH 205 combine for equivalency to MATH 165 and 166 at UND. <b>Both</b> courses must be taken for equivalency.
	<sup>2</sup> PHYS 205, 206, 209, & 210 combine for equivalency to UND's PHYS 251; waiver for PHYS 252 will be applied once student has completed degree in Physics from Adrian College.
	<sup>3</sup> ME 418 lecture is taken during a spring term, with the accompanying 1 credit lab taken directly the following summer.
	<sup>4</sup> Sub for Adrian PHYS3XX or greater
<b>List does not include requirements for UND's Essential Studies University requirements; students who have completed a 4-year regionally accredited baccalaureate degree will have all Essential Studies requirements waived per <a href="#">UND policy</a>.</b>	
<i>The above plan may not reflect the only path to graduation, nor should it be used as the sole advising document. Students are required to complete all requirements as listed in the UND Academic Catalog for graduation purposes and should work with their UND advisor to confirm progress towards completion. Plans reviewed/revised November 2023 for UND's 2023-2024 Academic Catalog requirements' listings.</i>	