

## LCMC Plan for Combined B.S. in Mechanical Engineering from University of North Dakota (UND) and B.S in Applied Mathematics & Data Science from Saint Thomas University (STU)

FIRST YEAR FALL	Credits	Taken	UND Course
UNI 101: First Year Experience	1	STU	
MAC 2311: Calculus I	4	STU	See Notes <sup>1</sup>
CHM 1045/L: General Chemistry I/Lab	4	STU	See Notes <sup>2</sup>
STA 2023: Applied Statistics	3	STU	
COP 2073: Intro to Data Science	3	STU	
Approved GER Course	3	STU	

FIRST YEAR SPRING	Credits	Taken	UND Course
MAC 2312: Calculus II	4	STU	See Notes <sup>1</sup>
CHM 1046/L: General Chemistry II/Lab	4	STU	See Notes <sup>2</sup>
Approved GER Course	3	STU	
Approved GER Course	2	STU	
Approved GER Course	3	STU	

SECOND YEAR FALL	Credits	Taken	UND Course
MAC 2311: Calculus III	4	STU	MATH 265
PHY 2048/L: University Physics I/Lab	5	STU	PHYS 251
ME 101: Intro to Mechanical Engineering	3	UND	
ENGR 201: Statics	3	UND	
ENGR 200: Computer Appl. in Engr	2	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
MAS 3105: Intro to Linear Algebra	3	STU	
PHYS 2049/L: University Physics II/Lab	5	STU	PHYS 252
MAP 2302: Differential Equations	3	STU	MATH 266
Approved GER Course	3	STU	
ME 201C: Student Design Lecture	1	UND	
ENGR 202: Dynamics	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
Approved GER Course	3	STU	
ENGR 203: Mechanics of Materials	3	UND	
ME 341: Thermodynamics	3	UND	
ME 301: Material Science	3	UND	
ME 306: Fluid Mechanics	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
Approved GER Course	3	STU	
ME 322: Design of Machinery	3	UND	
ME 323/L: Machine Comp. Design/Lab	4	UND	
ME 474: Fund. Of Heat and Mass	3	UND	
ENGR 206: Fund. Of Electrical Engr	3	UND	
Approved Technical Elective	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PHY 3101C: Modern Physics	3	STU	Appr. TE <sup>3</sup>
Approved GER Course	3	STU	
MATH 321: Applied Statistical Methods	3	UND	
ENGR 460: Engineering Economy	3	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective- Design	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
Approved GRE Course	3	STU	
Approved GRE Course	3	STU	
Approved Math Elective (4000 level)	3	STU	
Approved Technical Elective- Thermal	3	UND	
Approved Technical Elective- Manufact.	3	UND	
ME 418: Manufacturing Processes	3	UND	

<b>FIFTH YEAR FALL</b>	Credits	Taken	UND Course
Approved Ethics Course	3	STU	See Note <sup>3</sup>
BSC 1010/L: Principles of Biology/Lab	4	STU	
ME 480: Mechanical Engr Seminar	3	UND	
ME 487: Engineering Design	2	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	

<b>FIFTH YEAR SPRING</b>	Credits	Taken	UND Course
MAT 310: Advanced Statistics	3	STU	
COP 2030: Prog. For Data Analytics	3	STU	
CIS 401: Topics in Big Data Analytics	3	STU	
Approved GER Course	3	STU	
Approved GER Course	3	STU	
Approved Technical Elective	3	UND	

<b>SUMMER COURSE REQUIREMENTS</b>			
<b>Course</b>	<b>Credits</b>	<b>When to Take</b>	<b>Taken</b>
ME 201L: Student Design Lab	1	After Second 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> MAC 2311 and MAC 2312 must both be completed at a C or higher for equivalency to UND's MATH 165 and 166.
	<sup>2</sup> CHM 1045, 1045L, 1046, and 1046 must all be completed at a C or higher for equivalency to UND's CHEM 121, 121L, 122, and 122L.
	<sup>3</sup> Course will count as the one allowed non-ME course in the technical elective requirements of the major.
	<sup>4</sup> Students may choose from STU's PHI 3609, PHI 3633, PHI 3640, or PHI 3641 in order to fulfill UND's ENGR 340 course requirement.
<b><i>Plan created October 2023 using requirements from the 2023-2024 UND catalog</i></b>	