

College of Engineering & Mines Curriculum Information

LCMC Plan for Combined B.S. in Mechanical Engineering from University of North Dakota (UND) and B.S. in Physics from Baker University (BU)

FIRST YEAR FALL	Credits	Taken	UND Course
CH 137/L: General Chemistry I/Lab	4	BU	CHEM 121/L
BK 101: Baker Experience	1	BU	
BC 110: Freshman Seminar I	3	BU	
MA 171: Calculus I	4	BU	MATH 165
PC 225: General Physics I	4	BU	PHYS 251

SECOND YEAR FALL	Credits	Taken	UND Course
PC 325: General Physics III	4	BU	Note ²
PC 361: Thermodynamics	3	BU	ME 341
MA 372: Differential Equations	3	BU	MATH 266
PH 120: Ethics	3	BU	ENGR 340
ME 101: Intro. To Mech. Engineering	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
PC 470: Electricity and Magnetism I	3	BU	Tech Elec.
MA 281: Linear Algebra	4	BU	
ENGR 202: Dynamics	3	UND	
MATH 321: Applied Statistical Methods	3	UND	
ME 301: Material Science	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PC 490: Quantum Mechanics	3	BU	
Core- Foreign Language	3	BU	
ME 306: Fluid Mechanics	3	UND	
ENGR 460: Engineering Economy	3	UND	
ME 322: Design of Machinery	3	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
CH 138/L: General Chemistry II	4	BU	CHEM 122/L ¹
BC 120: Freshman Seminar II	3	BU	
MA 172: Calculus II	4	BU	MATH 166
PC 226: General Physics II	4	BU	Note ²

SECOND YEAR SPRING	Credits	Taken	UND Course
MA 271: Calculus III	4	BU	MATH 265
PC 381: Statics	3	BU	ENGR 201
PC 332: Electronics	3	BU	
ENGR 200: Comp. Apps. In Engineering	2	UND	
ME 201C: Student Design Lecture	1	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
Core- Social Sciences	3	BU	
Core- Fine Arts	3	BU	
Core- Humanities	3	BU	
ENGR 203: Mechanics of Materials	3	UND	
ENGR 206: Fund. Of Electrical Engr.	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
PC 491: Senior Projects	1-3	BU	
ME 323/L: Machine Comp. Design/Lab	4	UND	
ME 418: Manufacturing Processes	3	UND	
ME 474: Fund. Of Heat and Mass Trans.	3	UND	
Approved Technical Elective- Design	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
Core- Social Sciences	3	BU	
Core- Fine Arts	3	BU	
ME 480: Mechanical Engr. Seminar	3	UND	
ME 487: Engineering Design	2	UND	
Approved Technical Elective- M&M	3	UND	
Approved Technical Elective	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Core- Capstone	3	BU	
ME 488: Engineering Design	3	UND	
Approved Technical Elective- Thermal	3	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	

SUMMER CLASSES & LABS	Credits	Taken	When to Take
ME 201L: Student Design Lab	1	UND (on-campus)	After Second Year Spring
ME 418L: Manufacturing Processes Lab	1	UND (on-campus)	After Fourth Year Spring
ME 483: Mechanical Measurements Lab	3	UND (on-campus)	After Fourth Year Spring

NOTES	¹ CH 138L is a new course to be offered from Baker; existing CH 141 course will not have equivalency to any UND course
	² Both PC 226 and PC 325 must be completed successfully for equivalency to PHYS 252 at UND
<i>Plan created February 2023 using requirements from the 2023-2024 UND catalog</i>	