

# College of Engineering & Mines Curriculum Information

## LCCM Plan for Combined B.S. in Aerospace 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 <sup>2</sup>
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	
MA 281: Linear Algebra	4	BU	
ENGR 202: Dynamics	3	UND	
ME 306: Fluid Mechanics	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	
AE 490: Mechanics of Flight*	3	UND	
AE 491: Aerospace Structures*	3	UND	
AE 493: Aerospace Propulsion*	3	UND	

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

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	4	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 466: Aerodynamics	3	UND	
ENGR 460: Engineering Economy	3	UND	
Approved Technical Elective- Simulation	3	UND	
MATH 321: Applied Statistical Methods	3	UND	

<b>FIFTH YEAR FALL</b>	Credits	Taken	UND Course
Core- Social Sciences	3	BU	
AE 494: Flight Dynamics and Control*	3	UND	
ME 480: Mechanical Engr. Seminar	3	UND	
ME 487: Engineering Design	2	UND	
SPST 490: Orbital Mechanics*	3	UND	

<b>FIFTH YEAR SPRING</b>	Credits	Taken	UND Course
Core- Capstone	3	BU	
Core- Fine Arts	3	BU	
ME 488: Engineering Design	3	UND	
Appr. Technical Elective- Astronautics	3	UND	
Appr. Technical Elective- Thermal	3	UND	

<b>SUMMER CLASSES &amp; LABS</b>	Credits	Taken	When to Take
ME 201L: Student Design Lab	1	UND (on-campus)	After Second Year Spring
AE 492: Aeromechanics Lab	3	UND (on-campus)	After Fourth Year Spring
ME 483: Mechanical Measurements Lab	3	UND (on-campus)	After Fourth Year Spring

NOTES	<sup>1</sup> CH 138L is a new course to be offered from Baker; existing CH 141 course will not have equivalency to any UND course
	<sup>2</sup> Both PC 226 and PC 325 must be completed successfully for equivalency to PHYS 252 at UND
	*It is of utmost importance that students work with their UND advisor, as courses prefixes/number/name may change from year to year to new offerings.
<b><i>Plan created September 2024 using requirements from the 2024-2025 catalog.</i></b>	