

College of Engineering & Mines Curriculum Information

LCMC Plan for Combined B.S. in Civil 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

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 FALL	Credits	Taken	UND Course
PC 325: General Physics III	4	BU	Note ²
PC 361: Thermodynamics	3	BU	
MA 372: Differential Equations	3	BU	MATH 266
PH 120: Ethics	3	BU	ENGR 340
ENGR 200: Comp. Apps. In Engr.	2	UND	
CE 101: Intro to Civil Engineering	1	UND	

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	
Core- Humanities	3	BU	
CE 103: Graphical Communication	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
PC 470: Electricity and Magnetism I	3	BU	
MA 281: Linear Algebra	4	BU	
Core- Foreign Language	3	BU	
Approved Geology Course	3	UND	
ENGR 202: Dynamics	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
Core- Social Sciences	3	BU	
Core- Fine Arts	3	BU	
BS 230: Quant. Analysis for Business...	3	BU	ECON 210
ENGR 203: Mechanics of Materials	3	UND	
ENGR 460: Engineering Economy	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PC 490: Quantum Mechanics	3	BU	
CE 313: General Surveying	3	UND	
CE 306: Fluid Mechanics	3	UND	
CE 412: Soil Mechanics	3	UND	
CE 351: Structural Mechanics	3	UND	
Approved Technical Elective	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
PC 491: Senior Projects	1-3	BU	
Core- Fine Arts	3	BU	
CE 423: Hydraulic Engineering	3	UND	
CE 431: Environmental Engineering I	3	UND	
CE 451: Steel Design	3	UND	
Approved Technical Elective	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
Core- Social Sciences	3	BU	
CE 421: Hydrology	3	UND	
CE 432: Environmental Engineering II	3	UND	
CE 453: Reinforced Concrete	3	UND	
CE 482: Civil Engineering Design I	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Core- Capstone	3	BU	
CE 414: Foundation Engineering	3	UND	
CE 416: Transportation Engineering	3	UND	
CE 444: Contracts and Specifications	3	UND	
CE 483: Civil Engineering Design II	3	UND	

SUMMER CLASSES & LABS	Credits	Taken	When to Take
CE 313L: General Surveying Lab.	1	UND (on-campus)	After Fourth Year Spring
CE 411: Civil Engineering Materials Lab.	1	UND (on-campus)	After Fourth Year Spring
CE 412L: Soil Mechanics Lab.	1	UND (on-campus)	After Fourth Year Spring
CE 423L: Hydraulic Engineering Lab.	1	UND (on-campus)	After Fourth Year Spring
CE 431L: Environmental Engineering Lab.	1	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>	