

College of Engineering & Mines Curriculum Information

LCMC Plan for Combined B.S. in Biomedical Engineering from University of North Dakota (UND) and B.S. in Chemistry 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
Core- Language	4	BU	

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
Core-Social Sciences	3	BU	
Core- Fine Arts	3	BU	

SECOND YEAR FALL	Credits	Taken	UND Course
CH 251/L: Organic Chemistry I/Lab	4	BU	Tech Elective
PC 225: General Physics I	4	BU	PHYS 251
MA 372: Differential Equations	3	BU	MATH 266
BME 180: BME IBL I	2	UND	
Approved Programming Course	3	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
CH 252/L: Organic Chemistry II/Lab	4	BU	Tech Elective
PC 226: General Physics II	4	BU	Note ²
MA 271: Calculus III	4	BU	MATH 265
BME 181: BME IBL II	2	UND	
Approved Electrical Engr. Course	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
CH 361/L: Physical Chemistry I/Lab	4	BU	Tech Elective
CH 370: Biochemistry	3	BU	
PC 325: General Physics III	4	BU	Note ²
BME 280: BME IBL III	2	UND	
Approved Technical Elective	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
CH 340: Analytical Chem. Methods	3	BU	Note ³
CH 362/L: Physical Chemistry II/Lab	4	BU	Tech Elective
BME 281: BME IBL IV	2	UND	
Approved Statistics Course	3	UND	
Approved Technical Elective	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
Core- Humanities	3	BU	
Core- Fine Arts	3	BU	
BME 380: Junior IBL I	2	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
CH 491: Senior Seminar	2	BU	
CH 341: Instrumental Analysis	4	BU	
BME 381: Junior IBL II	2	UND	
BME 450: Biomedical Instrument.	3	UND	
Approved Biomedical Elective	3	UND	
Approved Technical Elective	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
PH 120: Ethics	3	BU	ENGR 340
BME 480: Senior IBL I	3	UND	
ENGR 460: Engineering Economy	3	UND	
Approved Biomedical Elective	3	UND	
Approved Technical Elective	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Core- Capstone	3	BU	
PY 111: General Psychology	3	BU	PSYC 111
BME 481: Senior IBL II	3	UND	
Approved Biomedical Elective	3	UND	
Approved Technical Elective	3	UND	

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
	³ CH 340 is a new course to be offered from Baker, and will be equivalent to CHEM 333/L
<i>Plan created February 2023 using requirements from the 2023-2024 UND catalog</i>	