

LCMC Plan for Combined B.S. in Biomedical Engineering from University of North Dakota (UND) and B.S. in Chemistry from Concordia University Texas (CTX)

FIRST YEAR FALL	Credits	Taken	UND Course
CHE 1341: General Chem. I	3	CTX	CHEM 121
CHE 1141: General Chem. I Lab	1	CTX	CHEM 121L
ENG 1316: Written Comm.	3	CTX	
PSY 1311: Intro. To Psychology	3	CTX	PSYC 111
LDR 1100: Life & Leadership	1	CTX	
Approved History Course	3	CTX	

FIRST YEAR SPRING	Credits	Taken	UND Course
CHE 1342: Chemistry II	3	CTX	
CHE 1142: Chemistry II Lab	1	CTX	
REL 1301: New Testament History...	3	CTX	
ENG 1317: Intro. To Literature	3	CTX	
COM 1300: Intro. To Communication	3	CTX	
Approved Leadership Course	2	CTX	

SECOND YEAR FALL	Credits	Taken	UND Course
CHE 2401: Organic Chem. I	4	CTX	Tech Elec.
CHE 3301: Inorganic Chem.	3	CTX	
MATH 2401: Calculus I	4	CTX	Note ¹
REL 1311: History and Literature...	3	CTX	
BME 180: BME IBL I	2	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
CHE 2403: Organic Chem. II	4	CTX	Tech Elec.
MTH 2402: Calculus II	4	CTX	Note ¹
BME 181: BME IBL II	2	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
CHE 3401: Quantitative Analysis	4	CTX	Tech Elec.
MTH 3410: Calculus III	4	CTX	MATH 265
MTH 3317: Differential Equations	3	CTX	MATH 266
BME 280: BME IBL III	2	UND	Back Transfer ²
PHYS 251C: University Physics I	3	UND	Back Transfer ²
Approved Programming Course	2-4	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
CHE 3404: Instrumental Analysis	4	CTX	
REL 3333: Christian Ethics	3	CTX	
BME 181: BME IBL IV	2	UND	Back Transfer ²
PHYS 252C: University Physics II	3	UND	Back Transfer ²
Approved Electrical Engr. Course	3	UND	
Approved Technical Elective	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
CHE 4301: Physical Chemistry I	3	CTX	
CHE 4201: Physical Chemistry Lab	2	CTX	
BME 380: Junior IBL I	2	UND	Back Transfer ²
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	
Approved Technical Elective	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
CHE 4302: Physical Chemistry II	3	CTX	
CHE 4401: Chemistry Capstone	4	CTX	
BME 381: Junior IBL II	2	UND	Back Transfer ²
Biomedical Engineering Elective	3	UND	
Approved Statistics Course	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
Approved Technology Course	3	CTX	
BME 480: Senior IBL I	3	UND	
ENGR 340: Professional Integrity...	3	UND	
ENGR 460: Engineering Economy	3	UND	
Biomedical Engineering Elective	3	UND	
Approved Technical Elective	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Approved Fine Arts Course	3	CTX	
BME 481: Senior IBL II	3	UND	
BME 450: Biomed. Instrumentation	3	UND	
Biomedical Engineering Elective	3	UND	
Approved Technical Elective	3	UND	

SUMMER COURSE REQUIREMENTS			
Course	Credits	When to Take	Taken
PHYS 251CL: University Physics I Lab	1	After Junior Spring	Remotely from UND
PHYS 252CL: University Physics II Lab	1	After Junior Spring	Remotely from UND

NOTES	¹ CTX's MTH 240 and 2402 combined is equivalent to UND's MATH 165 and MATH 166. Both must be completed at a "C" or higher for transfer.
	² Course has been approved to transfer back to CTX in order to fulfill degree requirements there. Students should connect with CTX advisor to confirm steps to have it apply.
List does not include requirements for UND's Essential Studies University requirements; students who have completed a 4-year regionally accredited baccalaureate degree will have all Essential Studies requirements waived per UND policy.	
<i>The above plan may not reflect the only path to graduation, nor should it be used as the sole advising document. Students are required to complete all requirements as listed in the UND Academic Catalog for graduation purposes and should work with their UND advisor to confirm progress towards completion. Plans reviewed/revised October 2024 for UND's 2024-2025 Academic Catalog requirements' listings.</i>	