

LCMC Plan for Combined B.S. in Civil Engineering from University of North Dakota (UND) and B.S in Applied Mathematics & Data Science from Saint Thomas University (STU)

FIRST YEAR FALL	Credits	Taken	UND Course
UNI 101: First Year Experience	1	STU	
MAC 2311: Calculus I	4	STU	See Notes ¹
CHM 1045/L: General Chemistry I/Lab	4	STU	See Notes ²
STA 2023: Applied Statistics	3	STU	
COP 2073: Intro to Data Science	3	STU	
Approved GER Course	3	STU	

FIRST YEAR SPRING	Credits	Taken	UND Course
MAC 2312: Calculus II	4	STU	See Notes ¹
CHM 1046/L: General Chemistry II/Lab	4	STU	See Notes ²
Approved GER Course	3	STU	
Approved GER Course	2	STU	
Approved GER Course	3	STU	

SECOND YEAR FALL	Credits	Taken	UND Course
MAC 2311: Calculus III	4	STU	MATH 265
PHY 2048/L: University Physics I/Lab	5	STU	PHYS 251
Approved GER Course	3	STU	
ENGR 201: Statics	3	UND	
ENGR 200: Computer Appl. in Engr	2	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
MAS 3105: Intro to Linear Algebra	3	STU	
PHYS 2049/L: University Physics II/Lab	5	STU	PHYS 252
MAP 2302: Differential Equations	3	STU	MATH 266
ENGR 202: Dynamics	3	UND	
ENGR 203: Mechanics of Materials	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
Approved GER Course	3	STU	
CE 306: Fluid Mechanics	3	UND	
CE 313: General Surveying	3	UND	
CE 351: Structural Mechanics	3	UND	
CE 412: Soil Mechanics	3	UND	
ENGR 460: Engineering Economy	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
Approved GER Course	3	STU	
CE 103: Graphical Communications	3	UND	
CE 423: Hydraulic Engineering	3	UND	
CE 431: Env. Engineering I	3	UND	
CE 451: Steel Design	3	UND	
CE 414: Foundations Engineering	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PHY 3101C: Modern Physics	3	STU	
CE 432: Env. Engineering II	3	UND	
CE 453: Reinforced Concrete	3	UND	
CE 421: Hydrology	3	UND	
CE 482: Civil Engineering Design I	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
COP 2030: Prog. For Data Analytics	3	STU	
CIS 401: Topics in Big Data Analytics	3	STU	
CE 444: Contracts and Specifications	3	UND	
CE 416: Transportation Engineering	3	UND	
CE 483: Civil Engineering Design II	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
Approved Ethics Course	3	STU	See Note ³
BSC 1010/L: Principles of Biology/Lab	4	STU	
Approved GER Course	3	STU	
GEOL 101: Introduction to Geology	3	UND	
Approved Technical Elective	3	UND	

FIFTH YEAR SPRING	Credits	Taken	UND Course
Approved Math Elective (4000 level)	3	STU	
MAT 310: Advanced Statistics	3	STU	
Approved GER Course	3	STU	
Approved GER Course	3	STU	
Approved Technical Elective	3	UND	

SUMMER COURSE REQUIREMENTS			
Course	Credits	When to Take	Taken
CE 313L: General Surveying Lab	1	After Third Year Spring	On-Campus at UND
CE 411: Civil Engr Materials Lab	1	After Third Year Spring	On-Campus at UND
CE 412: Soil Mechanics Lab	1	After Third Year Spring	On-Campus at UND
CE 423: Hydraulic Engineering Lab	1	After Third Year Spring	On-Campus at UND
CE 431: Env. Engineering Lab	1	After Third Year Spring	On-Campus at UND

NOTES	¹ MAC 2311 and MAC 2312 must both be completed at a C or higher for equivalency to UND's MATH 165 and 166.
	² CHM 1045, 1045L, 1046, and 1046 must all be completed at a C or higher for equivalency to UND's CHEM 121, 121L, 122, and 122L.
	³ Students may choose from STU's PHI 3609, PHI 3633, PHI 3640, or PHI 3641 in order to fulfill UND's ENGR 340 course requirement.
<i>Plan created October 2023 using requirements from the 2023-2024 UND catalog</i>	