

# Articulation Agreement

## University of North Dakota and Benedictine College

Atchison, KS

**Degree: Bachelor of Science in Civil Engineering**

**Major: CIVIL ENGINEERING**

The following information was updated according to the 2013-2015 UND CATALOG - Students satisfactorily completing the courses below may transfer them to UND in fulfillment of the corresponding course requirements for this degree. Essential Studies equivalencies, courses, and major requirements may change. An official evaluation of transfer credit will be done upon admission to the university. Transfer credits will be evaluated and applied according to the current catalog and the approved Essential Studies list at the first semester of enrollment at UND.

Students planning to transfer to UND are encouraged to have phone or email contact with a UND adviser. Students may call the Advising Office at 1-800-CALL-UND ext. 3411 or 777-3411.

135 credits are required to graduate with a civil engineering degree from UND.

BC	Course/Credits/Title	UND	Course/Credits/Title
<b><u>I. Communication - COM</u></b>			
On 101	3 English Composition	ENGL 110	3 College Composition I
En 326 or	3 Advanced Composition or	ENGL 130	3 College Comp II: Writing for Public Au
Eg 217	3 Technical Communications	ENGL 130	3 College Comp II: Writing for Public Au
SE 222 or	3 Speech Communication or	COMM 110 or	3 Fundamentals of Public Speaking or
SE 371	3 Public Speaking	COMM 110	3 Fundamentals of Public Speaking
<b><u>II. Social Science - SS</u></b>			
Eg 317	3 Engineering Economics	ENGR 460	3 Engineering Economics
Ph 325	3 Ethics	ChE 340	3 Professional Integrity in Engineering
Elective Credit	3 Elective Credit	Elective Credit	3 Elective Credit
<b><u>III. Arts and Humanities - FA/HUM</u></b>			
Elective Credit	9* Credit from at least two depts.	Elective Credit	9* Credit from at least two depts.
*must include 3 credits designated as Fine Arts and 3 credits designated as Humanities			
<b><u>IV. Mathematics, Science &amp; Technology - MST</u></b>			
Ch 103/105	3/1 General Chemistry I/Lab	CHEM 121/L	3/1 General Chemistry I
Ch 104/106	3/1 General Chemistry II/Lab	CHEM 122/L	3/1 General Chemistry II
Ma 131	4 Calculus I	MATH 165	4 Calculus I
Ma 132	4 Calculus II	MATH 166	4 Calculus II
<b><u>Other Program Requirements</u></b>			
Eg 315	3 Statistical Data Analysis	MATH 321	3 App. Stat. Methods
Eg 415	3 Design of Engineering Experiments	MATH 321	3 App. Stat. Methods
Ma 315	3 Probability and Statistics	MATH 321	3 App. Stat. Methods
Ma 233	4 Calculus III	MATH 265	4 Calculus III
Ma 310	3 Differential Equations	MATH 266	3 Intro to Differential Equations
Pc 210	4 Classical Physics I	PHYS 251/L	3/1 University Physics I
Pc 211	4 Classical Physics II	PHYS 252/L	3/1 University Physics II

## Engineering Science

Cs 230	2	Computer Programming for Engrs & Scientists	ENGR 200	3	Comp. Apps. In Engineering
Eg 200	2	Comp. Apps. In Engineering	ENGR 200	2	Comp. Apps. In Engineering
Eg 110	2	Technical Drawing	ENGR 101	3	Graphical Communications
Eg 230	3	Statics	ENGR 201	3	Statics
Eg 231	3	Dynamics	ENGR 202	3	Dynamics
Eg 320	3	Mechanics of Materials	ENGR 203	3	Mechanics of Materials

## Other

Ec 210	3	Microeconomics	ECON 201	3	Microeconomics
Eg 300+	3	All EG courses 300 level or above	Elective Credit	3	Technical Elective
Pc 300+	3	All PC courses 300 level or above	Elective Credit	3	Technical Elective
Pc 350	3	Electronics	EE 206	3	Circuit Analysis

## Civil Engineering

Cv 204	1	Intro to Dig. Terrain Mod.	CE 202	1	Intro to Dig. Terrain. Mod
Cv 213	2	General Surveying	CE 313	2	General Surveying
Cv 214	1	General Surveying Lab	CE 313L	1	General Surveying Lab
Cv 301	2	Soil Mechanics & Civil Engr Materials Lab	CE 301	2	Civil Engineering Lab I
Cv 302	2	Environmental and Hydraulic Engr Lab	CE 302	2	Civil Engineering Lab II
Cv 351	4	Structural Mechanics	CE 351	4	Structural Mechanics
Cv 412	3	Soil Mechanics	CE 412	3	Soil Mechanics
Cv 414	3	Foundations Engineering	CE 414	3	Foundations Engineering
Cv 431	3	Environmental Engineering I	CE 431	3	Environmental Engineering I
Cv 451	3	Steel Design	CE 451	3	Steel Design
Cv 453	3	Reinforced Concrete	CE 453	3	Reinforced Concrete
Eg 120	2	Intro to Engineering	CE 101	1	Intro to Civil Engineering
Eg 330	3	Fluid Mechanics	CE 306	3	Fluid Mechanics
Eg 460/480	3/3	Engineering Design I/II	ChE 412	5	Plant Design II: Process Project Engi
Ph 325	3	Ethics	ChE 340	3	Professional Integrity in Engineering

When choosing your Essential Studies (General Education) Courses in Communication, Social Science, Arts and Humanities, and Math, Science and Technology, you will need to consider how you will meet the special emphasis requirements. Courses listed above that meet a special emphasis requirement are marked as follows: Oral Communication requirement (O), Social-Cultural Diversity requirement: United States (U), Social-Cultural Diversity requirement: Global (G), Quantitative Reasoning requirement (Q), and Advanced Communication requirement (A). To learn more please go to <http://und.edu/academics/essential-studies> or check with your adviser.

All students-including transfers-are required to take an Essential Studies upper division Capstone (C) course at UND. Approved Capstone courses are taken in the senior year of a student's undergraduate program.

Additional classes will be required to earn the above degree; a minimum of 125 credits is required to graduate from UND. Transfer credit for courses other than those listed above will be evaluated on a course-by-course basis.