

# Articulation Agreement

## University of North Dakota and Itasca Community College

Grand Rapids, MN

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

**Major: CHEMICAL ENGINEERING**

The following information was updated according to the 2017-2019 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 (701) 777-3411.

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133 credits are required to graduate with a chemical engineering degree from UND.

\*Other ICC courses may satisfy these requirements, contact the department for details.

\*Meets elective requirements

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ICC	Course/Credits/Title	UND	Course/Credits/Title
<b><u>I. Communication - COM</u></b>			
ENGL 1101	4 Composition I	ENGL 110	3 College Composition I
ENGL 1105	3 Technical Writing	ENGL 130	3 Comp II: Writing for Public Audiences
ENGL 1113 or	3 Composition II	ENGL 130 or	3 Comp II: Writing for Public Audiences
<b><u>II. Social Science - SS</u></b>			
Elective Credit	9 Credit from at least two depts.	Elective Credit	9 Credit from at least two depts.
<b><u>III. Arts and Humanities - FA/HUM</u></b>			
PHIL 1111	3 Ethics	ChE 340	3 Professional Integrity in Engineering
Elective Credit	6* Credit from at least two depts.	Elective Credit	6* Credit from at least two depts.
*must include 3 credits designated as Fine Arts			
<b><u>IV. Mathematics, Science &amp; Technology - MST</u></b>			
CHEM 1201	4 General Chemistry I (Q)	CHEM 121/L	3/1 General Chemistry I/Lab
CHEM 1202	4 General Chemistry II (Q)	CHEM 122/L	3/1 General Chemistry II/Lab
MATH 1122	4 Calculus I	MATH 165	4 Calculus I
MATH 1123	4 Calculus II	MATH 166	4 Calculus II
<b><u>Other Program Requirements</u></b>			
CHEM 2201	5 Organic Chemistry I	CHEM 341/L	4/1 Organic Chemistry I/Lab
CSCI 1205	3 C++ Programming	*Elective Credit	3 Technical Elective II
ENGR 1101	4 Intro to Engineering	ChE 102	2 Intro to Chemical Engineering
ENGR 2103	3 Mechanics of Materials	*ENGR 203	3 Material Science Elective

ENGR 2106	4	Circuits I	ENGR 206	3	Fund of Electrical Engineering
MATH 2102	4	Multivariable Calculus	MATH 265	4	Calculus III
MATH 2104	4	Differential Equations and Linear Algebra	MATH 266	3	Elementary Differential Equations
MATH 2106	3	Probability and Statistics	*Elective Credit	3	Technical Elective I
PHYS 1201	4	General Physics I/Lab	PHYS 251/L	4	University Physics I/Lab
PHYS 1202	4	General Physics II/Lab	PHYS 252/L	4	University Physics II/Lab

A complete list of approved Essential Studies courses can be found online at <http://und.edu/academics/essential-studies/approved-courses.cfm>

When choosing your Essential Studies (General Education) Courses in Communication, Fine Arts and Humanities, Social Science, 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 120 credits is required to graduate from UND. A complete listing of program requirements can be found in the [Academic Catalog](#) and [Four Year Plans](#).

Transfer credit for courses other than those listed above will be evaluated on a course-by-course basis.