

Articulation Agreement

University of North Dakota and Hibbing Community College

Hibbing, MN

Degree: Bachelor of Science in Electrical Engineering

Major: ELECTRICAL 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.

135 credits are required to graduate with an electrical engineering degree from UND.

HCC		Course/Credits/Title	UND		Course/Credits/Title
<u>I. Communication - COM</u>					
ENGL 1060	3	Freshman Composition	ENGL 110	3	College Composition I
ENGL 1070 or	3	Technical Report Writing or	ENGL 130 or	3	Comp II: Writing for Public Audiences or
ENGL 1090	3	Advanced Composition	ENGL 130	3	Comp II: Writing for Public Audiences
<u>II. Social Science - SS</u>					
Elective Credit	9	Credit from at least two depts.	Elective Credit	9	Credit from at least two depts.
<u>III. Arts and Humanities - FA/HUM</u>					
Elective Credit	6*	Credit from at least two depts.	Elective Credit	6*	Credit from at least two depts.
PHIL 1300	3	Ethics	PHIL 250	3	Ethics in Engineering & Science
*must include 3 credits designated as Fine Arts and 3 credits designated as Humanities					
<u>IV. Mathematics, Science & Technology - MST</u>					
CHEM 1610	5	General Chemistry 1/Lab (Q)	CHEM 121/L	3/1	General Chemistry I/Lab
MATH 2101	5	Calculus 1	MATH 165	4	Calculus I
MATH 2111	5	Calculus 2	MATH 166	4	Calculus II
PHYS 2030 or	3	Modern Physics or	Elective Credit	3	Basic/App. Science Elec
CHEM 1611	5	General Chemistry 2 (Q)	CHEM 121/L	3/1	General Chemistry /Lab
<u>Other Program Requirements</u>					
MATH 2121	5	Calculus 3	MATH 265	4	Calculus III
MATH 2211	5	Diff Equations w Intro Linear Algebra	MATH 266/207	3/2	Elem Diff Equations/Intro to Linear Alg
PHYS 2010	5	General Physics 1/Lab	PHYS 251/L	4	University Physics I/Lab
PHYS 2021	5	General Physics 2/Lab	PHYS 252/L	4	University Physics II/Lab

ENGR 1010 or	2	Intro to Engineering or	EE 101	1	Intro to Electrical Engineering
ENGR 1030	2	Intro to Engineering Applications			
CSCI 1250	3	C++ Programming	EE 304	3	Computer Aided Meas & Controls
ENGR 1510	3	Digital Logic/Lab	EE 201/202	2/1	Intro to Digital Electronics/Lab
ENGR 2010	3	Statics	Elective Credit	3	Non-EE Elective
ENGR 2020 or	3	Dynamics or	Elective Creit	6	Non-EE Elective
ENGR 2030 or	3	Mechanics of Materials or			
ENGR 2040 or	3	Fluid Mechanics or			
ENGR 2050	3	Thermodynamics (preferred)			
ENGR 2061	4	Elec Engr Fund/Lab	EE 206/306	3/1	Circuit Analysis/Lab
ENGR 2071	4	Linear Electric Circuits/Lab	EE 313/307	3/1	Linear Electric Circuits/Lab
MATH 2010	4	Statistics	EE 318	3	Engineering Data Analysis

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.