

Articulation Agreement

University of North Dakota and Inver Hills Community College

Inver Grove Heights, M

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.

*Other IHCC credits may satisfy these requirements. Contact the department for details.

IHCC	Course/Credits/Title	UND	Course/Credits/Title
<u>I. Communication - COM</u>			
ENG 1108	4 Writing and Research Skills	ENGL 110	3 College Composition I
ENG 1111	2 Research Writing in the Disciplines	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 1112	3 Ethics	PHIL 250	3 Ethics in Engr. & Science
*must include 3 credits designated as Fine Arts and 3 credits designated as Humanities			
<u>IV. Mathematics, Science & Technology - MST</u>			
CHEM 1061	5 Principles of Chemistry I (Q)	CHEM 121/L	3/1 General Chemistry I/Lab
CHEM 1062	5 Principles of Chemistry II (Q)	CHEM 122/L	3/1 General Chemistry II/Lab
MATH 1133	5 Calculus I	MATH 165	4 Calculus I
MATH 1134	5 Calculus II	MATH 166	4 Calculus II
<u>Other Program Requirements</u>			
ENGR 1000 or	2 Orientation to Engineering or	EE 101	1 Intro to Electrical Engineering
ENGR 1100 or	2 Intro to Engineering I or		
ENGR 1101	2 Intro to Engineering II		
ENGR 1060	3 Intro to Dig Circuits & Logic Design/Lab	EE 201/202	2/1 Intro to Digital Electronics/Lab
ENGR 2020	3 Statics	Elective Credit	3 Non-EE Elective
ENGR 2025	3 Dynamics	Elective Credit	3 Non-EE Elective

ENGR 2041	4	Linear Circuits I/Lab	EE 206/306	3/1	Circuit Analysis/Lab
ENGR 2042	4	Linear Circuits II/Lab	EE 313/307	3/1	Linear Electric Circuits/Lab
MATH 2219	5	Multivariable Calculus	MATH 265	4	Calculus III
MATH 2221	3	Intro to Linear Algebra	MATH 207	2	Intro to Linear Algebra
MATH 2222	3	Introduction to Differential Equations	MATH 266	3	Elementary Differential Equations
PHYS 1081	5	Calculus Based Physics I/Lab	PHYS 251/L	4	University Physics I/Lab
PHYS 1082	5	Calculus Based 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.