

Articulation Agreement

University of North Dakota and Northwest College

Powell, WY

Degree: Bachelor of Science in Electrical Engineering

Major: ELECTRICAL 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 an electrical engineering degree from UND.

NWC		Course/Credits/Title	UND		Course/Credits/Title
<u>I. Communication - COM</u>					
ENGL 1010	3	English I: Intro to Composition	ENGL 110	3	College Composition I
ENGL 2010	3	Technical Writing	ENGL 130	3	College Comp II: Writing for Public Au
<u>II. Social Science - SS</u>					
Elective Credit	9	Credit from two depts.	Elective Credit	9	Credit from two depts.
<u>III. Arts and Humanities - FA/HUM</u>					
Elective Credit	9*	Credit from two depts.	Elective Credit	9*	Credit from two depts.
*must include 3 credits designated as Fine Arts and 3 credits designated as Humanities					
*must include 3 credits of ethics as specified					
<u>IV. Mathematics, Science & Technology - MST</u>					
	3	Modern Physics (preferred)			
CHEM 1020	5	General Chemistry I (Q)	CHEM 121/L	3/1	General Chemistry I
CHEM 1030	5	General Chemistry II(Q)	CHEM 122/L or	3/1	General Chemistry II
MATH 2200	5	Calculus I	MATH 165	4	Calculus I
MATH 2205	5	Calculus II	MATH 166	4	Calculus II
<u>Other Program Requirements</u>					
ES 2120	3	Dynamics or	Elective Credit	6	Select two courses
ES 2310	4	Thermodynamics (preferred) or			
ES 2330	3	Fluid Dynamics/Mechanics or			
ES 2410	3	Mechanics of Materials			
ENTK 1500	3	Engineering Graphics	ENGR 101	3	Graphical Communication
ES 1000	1	Orientation to Engineering	EE 101	1	Intro to Electrical Engineering
ES 2110	3	Statics	ENGR 201	3	Statics
ES 2210	4	Electrical Circuit Theory/Lab	EE 206/EE 306	3/1	Circuit Analysis/Lab
MATH 2210	5	Calculus III	MATH 265	4	Calculus III
MATH 2310	3	Applied Differential Equations I	MATH 266	3	Differential Equations
PHYS 1310	4	College Physics I	PHYS 251/L	4	University Physics I/L
PHYS 1320	4	College Physics II	PHYS 252/L	4	University Physics II/L

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.