Articulation Agreement

University of North Dakota and Normandale Community College
Bloomington, MN

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

**Major:** PETROLEUM 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. 2533 or (701) 777-2533.

NCC | Course/Credits/Title | UND | Course/Credits/Title
---|----------------------|-----|---------------------

**I. Communication - COM**
- ENGC 1101 4 Freshman Composition
- ENGC 2102 3 Business and Technical Writing

**II. Social Science - SS**
- Elective Credit 9

**III. Arts and Humanities - FA/HUM**
- Elective Credit 9

**IV. Mathematics, Science & Technology - MST**
- CHEM 1061 5 Principles of Chemistry I (Q)
- CHEM 1062 5 Principles of Chemistry 2 (Q)
- MATH 1510 5 Calculus 1
- MATH 1520 5 Calculus 2

**Other Program Requirements**
- ENGR 2231 3 Thermodynamics
- ENGR 2235 3 Statics
- ENGR 2331 3 Deformable Body Mechanics
- MATH 2510 5 Calculus 3: Multivariate Calculus
- MATH 2520 5 Calculus 4: Diff. Equations & Linear Algebra
- PHYS 1121 5 Physics with Calculus 1
- PHYS 1122 5 Physics with Calculus 2

A complete list of approved Essential Studies courses can be found online at [http://und.edu/academics/essential-studies/approved-courses.cfm](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](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](http://und.edu/academics/essential-studies) and [Four Year Plans](http://und.edu/academics/essential-studies).

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