

GEOLOGY 301/695
2021 Geology of the North Shore of Lake Superior
FIELD COURSE
DEPARTMENT OF GEOSCIENCES, NORTH DAKOTA STATE UNIVERSITY
COURSE INFORMATION

Field Course Dates: Sept. 11 - 15, 2021
Location: Stevens Hall 134 and the North Shore!
Instructor: B. Saini-Eidukat, 127 Stevens Hall, ext. 1-8785
email: bernhardt.sainieiduk@ndsu.edu
Office hours: Tuesday, 2:00 - 4:00 pm or by appointment
Web Site: <http://www.ndsu.edu/pubweb/~sainieid/northshore/>
Class Meet Time: 4:00 - 4:50 pm selected Tuesdays

Course Description and Intended Student Outcomes

From this 2 credit course, students will gain an appreciation of the geology of, and geologic processes that formed, the region from Fargo to along the North Shore of Lake Superior in Minnesota ~~and northern Ontario~~. (Sadly, we won't be visiting Ontario this year due to COVID-19). Geology 301 offers opportunities for studying geologic structures and relationships in the field, mineral collecting, plus opportunities to visit mine sites, both above and below surface.

Travel will be by van. Overnight accommodation each night is by tent (student provided). Provisions for meals will be the obligation of each participant.

Course fee covers your transportation and camping costs, a detailed guidebook, and entry fees.

Projected expenses per participant (excluding tuition):

- \$100: required in advance.
 - \$80+ Food and beverages
- Also have access to about \$70 emergency money (weather related room expenses, etc.)

During the Trip:

We'll learn how to integrate the geology we see, from Precambrian time to present day processes. We'll learn how to make field observations and how to interpret them, and how to take detailed field notes. We'll carry out small field exercises. Your notebook will be submitted for evaluation.

Project Assignment:

Each participant will volunteer for (or be assigned) a topic related to a location we visit, or a general topic related to the trip. The participant will thoroughly research the topic, and prepare a 6 to 8 page report to be submitted after the trip. Research topics must be approved by the instructor. For help in selecting a topic, please visit with the instructor.

The report should include an adequate, professional, and even rigorous overview of the chosen topic. It should be supported by graphics, by citations in the text to reference

sources, and a well-presented list of reference sources. References should give author name(s), date, title, journal or book title, and volume/page numbers.

Deadline for submission of reports:

11:59 p.m. MONDAY, NOV 22, 2021 (uploaded to Blackboard).

Grading:

Grades will be based on the following considerations:

For undergraduates (Geol 301), the primary criterion will be attendance (60%) – this includes evaluation of the field notebook to be turned in after the trip. 35% of the grade will be based on the post-trip report. The final 5% of the grade will be based on the student's cooperation with the instructor and fellow course participants, and his/her willingness to learn course content.

Those students registering for graduate credit (Geol 695) will be assessed as follows: attendance (60%) including evaluation of the field notebook to be turned in after the trip, the post-trip research chapter (20%), and an oral presentation (15%). The presentation could be in the field during the trip, or after the trip at a time to be arranged. The final 5% of the grade will be based on the student's participation during the course.

Special Needs: Students who need special accommodations for learning or who have special needs are invited to share these concerns or requests with the instructor as soon as possible.

Academic Responsibility: All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct (www.ndsu.nodak.edu/policy/335.htm).

COVID-19 STATEMENT: As of August 23, 2021, NDSU requires all people to wear face masks in all classroom settings. In case of any changes, you will be notified and this syllabus will be updated.

All information subject to change

Details on the trip itself will be provided in Blackboard and on the course web site
www.ndsu.edu/pubweb/~sainieid/northshore/