

# North Central Michigan College

NCMC MASTER COURSE SYLLABUS

Last Date Revised \_\_12/05/09\_\_\_\_\_

**DIVISION/AREA:** Liberal Arts                      **DEPARTMENT:** Earth Sciences (ESC)  
**ASSOCIATE DEAN:** Sam McLin                      **ORIGINATOR:** Kurt Yuengling  
**DEAN OF INSTRUCTION:** Dr. Timothy Dykstra

**HOURS OF INSTRUCTION:**

Credit hours: variable (1-5)  
Lecture: variable  
Lab: variable  
Contact hours: 17.6 to 88.0

**COURSE TITLE:** Field Investigations In Geology

**COURSE ALPHA:** ESC                      **COURSE NUMBER:** 295

**CATALOG DESCRIPTION:**

Exploration of the geologic setting of an area of Michigan and/or elsewhere in North America. Students will learn basic field techniques including: navigation, sampling, data cataloging, and field safety. Students will be expected to complete a final presentation of their observations, research techniques, and conclusions. Coursework will include classroom work as well as weekend field trips during the semester or weeklong trips outside of the fall/winter semesters. Students may have the opportunities to participate in a multi-year, regional research project and to present their results at a regional conference. Completion of ESC 230 is recommended, but not required.

**PREREQUISITE(S):** ESC 101, or ESC 110, or ESC 121, or ESC 122

**COREQUISITE(S):** None

**GENERAL EDUCATION DISTRIBUTION AREA:** None  
(example: Social Science Group B)

**GENERAL EDUCATION/PROGRAM OUTCOMES:** None

**COURSE OBJECTIVES AND OUTCOMES:**

1. Identify and interpret minerals, rocks, and landforms observed or collected in the field.
2. Participate in the planning and execution of a research project.
3. Demonstrate ability to navigate and safely travel in a field setting.
4. Correctly collect and catalog samples relevant to the outlined study.
5. Present results, including: a summary of techniques used, an evaluation of the accuracy/precision of data,

and a discussion of results including suggestions for future work.

6. Be a productive member of the team in classroom, field, and camp settings.

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*COURSE TITLE AND NUMBER:* ESC 295 Field Investigations in Geology

**METHODS OF INSTRUCTION:** Lectures, discussions, field trips, lab exercises.

**METHODS OF EVALUATION:** Class Participation, Exams/Quizzes, Project(s)

**REQUIRED TEXT AT TIME OF COURSE ADOPTION/REVISION:**

TEXTS:

OPTIONAL SUPPLEMENTARY MATERIALS:

**Reasonable accommodations can be provided for students with documented disabilities. Please contact Learning Support Services for assistance: 231/348-6817.**

**SUGGESTED TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:**

*(List general content description of what is being covered each week)*

The topics covered or stressed in the course will vary depending on the location of the course, the instructor, and the season / environmental conditions.

APPROVED FOR ADOPTION/REVISION BY THE CRD/AP COMMITTEE ON \_\_1/29/10\_\_