



Wayne County Community College District

COURSE SYLLABUS

ED 202

Earth Science for the Elementary Teacher and Practicum

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

This is a lecture and practicum course dealing with earth science concepts and teaching methods in the teaching of grades K-8. The National Science Teachers Association (2003). Standards for Science Teachers Preparation guidelines (B3) will acquaint the student with techniques of teaching basic earth science concepts. Emphasis is on the pedagogical approaches widely used in elementary classrooms. The science specialist should have all of the competencies described for the elementary generalist, but also should be prepared in Earth and space science to lead students to understandings.

PREREQUISITES: ED 110

EXPECTED COMPETENCIES:

Upon completion of this course, the student will demonstrate:

- An awareness of the major objectives of teaching science in general and earth science in elementary grades.
- An understanding of the role of activities in the teaching and learning of science.
- Understand the structures of objects and systems in space.
- Understand earth's structure, evolution, history, and place in the solar system.
- Understand characteristics and importance of oceans, lakes, rivers, and the water cycle.
- Understand characteristics of the atmosphere including weather and climate.
- Understand changes in the earth caused by chemical, physical, and biological forces.
- Understand causes and occurrences of hazards such as tornados, hurricanes, and earthquakes.
- Understand characteristics and importance of cycles of matter such oxygen, carbon, and nitrogen.
- Understand characteristics of renewable and nonrenewable natural resources and implications for their use.
- Understand interactions among populations, resources and implications for their use.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E