I.  Course Number and Title:

ESC 124 – Environmental Geology

II.  Catalog Description:

Topics include current environmental issues relating to the geologic environment. Teaches geologic hazards, land use planning and development, surface and subsurface water systems, solid waste disposal and management, energy sources and consumption, and air quality. Requires attendance on field trip(s) and at town planning board meetings. (3 hrs. lecture, 2 hrs. laboratory.) Offered on: A/ 4 cr. hrs.

4.000 Credit Hours
3.000 Lecture hours
2.000 Lab hours

III. *Learning Outcomes: (Main concepts, principles, and skills you want students to learn from this course) The Learning Outcomes listed here should be considered the minimum core outcomes for the course. Many other learning outcomes may also be a part of the learning experience within the course.

Upon completion of this course, students will be able to:

- Understand the origin and composition of the earth
- Identify common minerals and rocks
- Distinguish between igneous, metamorphic and sedimentary rocks
- Interpret the rock cycle
- Understand common sources of energy resources
- Interpret topographic, groundwater contour, land use and zoning maps
- Understand volcanic and seismic hazards
- Understand plate tectonics and its relationship to natural hazards
- Understand basic hydrogeologic principles and be able to perform and interpret basic groundwater contamination studies

*These statements must appear verbatim in course outlines. However, additional outcomes may be added to individual course outlines at the instructor’s discretion.

Revised 1/10
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