DEPARTMENT OF EARTH AND PLANETARY SCIENCES

Revise description to add cross list reference:

GEOL 206 – Sustainability: Reducing our Impact on Planet Earth
3 Credit Hours
An introduction to the field of “sustainable living,” which emphasizes reducing the environmental footprint of individuals and cultures. Topics include: environmental footprints, green living, green consumerism, ethical consumption, voluntary simplicity, green technologies and other ways for people to reduce their environmental impact.

(Same as Geography 206.)

Formerly:

GEOL 206 – Sustainability: Reducing our Impact on Planet Earth
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An introduction to the field of “sustainable living,” which emphasizes reducing the environmental footprint of individuals and cultures. Topics include: environmental footprints, green living, green consumerism, ethical consumption, voluntary simplicity, green technologies and other ways for people to reduce their environmental impact.

Geology is primary.

Delete program description:

Geology and Environmental Studies Major, BS – Environmental Studies Concentration

Add program description:

Geology and Environmental Studies Major, BS – Environmental Studies Concentration
The Environmental Studies concentration provides sound scientific, socioeconomic, and philosophical background for understanding the Earth’s environment and prepares the student for careers in science, education, law, business, public policy, and many other fields.

Corequisites
Students wishing to declare their major in Geology and Environmental Studies should do so at the earliest opportunity.

A. Complete:
BIOL 260 - Ecology
BIOL 269 - Ecology Field-Based Laboratory
ECON 201 - Introductory Economics: A Survey Course*

B. Select two courses:
GEOL 101 - The Dynamic Earth*
GEOL 102 - Earth, Life, and Time*
GEOL 103 - The Earth's Environments*
GEOL 104 - Exploring the Planets*

C. Select one sequence:
BIOL 101 - Introduction to Biology: Cells, Genetics, and Physiology*
BIOL 102 - Introduction to Biology: Biodiversity and Ecology*
or
BIOL 113 - Introductory Plant Biology I*
BIOL 114 – Introductory Plant Biology II*
BIOL 115 – Introductory Plant Biology Laboratory*
or
BIOL 150 - Organismal and Ecological Biology*
BIOL 160 - Cellular and Molecular Biology*
BIOL 159 - Skills of Biological Investigation*
or
BIOL 158 - Honors: Organismal and Ecological Biology*
BIOL 168 - Honors: Cellular and Molecular Biology*
BIOL 167 - Honors: Skills of Biological Investigation*

D. Select one sequence:
CHEM 100 - Principles of Chemistry*
CHEM 110 - Introduction to Organic and Biochemistry*
or
CHEM 120 - General Chemistry I*
CHEM 130 - General Chemistry II*
or
PHYS 221 - Elements of Physics*
PHYS 222 - Elements of Physics*

E. Select one sequence:
MATH 123 - Finite Mathematics*
MATH 125 - Basic Calculus*
or
MATH 141 - Calculus I*
MATH 142 - Calculus II*
or
MATH 151 - Mathematics for the Life Sciences*
MATH 152 - Mathematics for the Life Sciences II*

Concentration Requirements

A. Complete:
ECON 362 – Environmental and Natural Resource Policy or AREC 470 – Policy for Environmental Management
JREM 451 – Environmental Writing
GEOG 436 – Water Resources

B. Complete five courses:
GEOL 301 – Introduction to scientific field methods and analysis
GEOL 320 - Paleobiology
GEOL 340 – Earth Sedimentary Processes
GEOL 455 – Advanced Environmental Geology
GEOL 456 - Global Climate Change
GEOL 466 – Water and Air Pollution
GEOL 485 – Principles of Hydrogeology

C. Complete 3 hours:
GEOL 493 - Independent Study

D. Select 9 additional hours 300-level or above in one or more of the following departments (all require approval of your major advisor):
Chemistry
Earth and Planetary Sciences
Ecology and Evolutionary Biology
Economics
Environmental and Soil Sciences
Forestry
Forestry, Wildlife, and Fisheries
Geography
Journalism and Electronic Media
Plant Sciences
Political Science
Sociology

Honors Concentration
Students who have completed five upper-division courses in either the Geology or Environmental Studies concentration and maintain a cumulative GPA of at least 3.25 are encouraged to pursue an honors concentration. In addition to fulfilling all requirements for their preferred concentration, an honors concentration requires 3 hours of GEOL 491, GEOL 492, or GEOL 493; 3 hours of GEOL 497 during which students will complete written and oral presentation of thesis results; and an additional 9 hours of honors coursework (including honors-by-contract). A GPA of at least 3.25 must be maintained throughout matriculation. Interested students should consult their academic advisor for details.