

**Environmental Science Program
Student Checklist –**

Name _____
Term Starting _____

GENERAL EDUCATION REQUIREMENTS-see reverse of sheet

Requirements differ based on when a student entered UMass. Students should refer to the Registrar's Office Web Site for information on General Education Requirements: http://www.umass.edu/registrar/registration/gened_requirements.htm
General Ed. requirements are listed categorically for each student on the SPIRE Academic Requirement Report (ARR).
See reverse side of sheet for summary checklist.

REQUIRED MATH/SCIENCE FOUNDATION COURSES

BIOLOGY 151 ___ BIOL 152 ___ (min. grade "C" needed in BIO 151) BIO 153 (lab course) _____

CHEM 111 ___ CHEM 112 ___ (min. grade "C-" needed in CHEM 111) (courses offered both terms)

One term Organic Chemistry: CHEM 261 _____ (offered both terms, min. grade "C-" needed in CHEM 112) -or- CHEM 250 _____ (offered spring only; min. grade C- in CHEM 111)

GEOLOGY 101 -or- GEOG 110 _____ PHYSICS 131 _____

MATH 127 or 131 _____ 128 or 132 _____ Calculus I & II (available both terms. No min. grade)

Statistics: STATISTC 240 -or- RES-ECON 212 or NRC 240 _____

RES-ECON 262 _____ Environmental Economics (Spring)

OR - RES-ECON 263 _____ Natural Resource Economics (Fall) –no prerequisite

REQUIRED ENVIRONMENTAL SCIENCES CORE COURSES

ES191A ___ (F); ES194A ___ (Sp), Seminar I & II. ES294A ___ Career/Curr Plan Sem. (Spring)

ENVIRSCI 101 ___ Intro Envir. Science (Fall) –OR- NRC 100 ___ Environment & Society (Fall)

ENVIRSCI 213 ___ Environmental Policy (Fall only; no prereq.)

ENVIRSCI 214 ___ Ecosystems, Biodiversity and Global Change (Spring only; BIOL 151 prereq)

ENVIRSCI 315* ___ Environmental Tox. and Chemistry (Spring only; Organic Chem needed 1st)
**may also be met with a different Env.Quality course, e.g., ENVIRSCI 319, 333, 575, 585, 587*

NATSCI 387 ___ Junior Year Writing (both terms) _____ Integrated Experience (IE) *

**see reverse of sheet*

UPPER-LEVEL COURSES

Four upper-level courses (300-level or above) from Approved List or as approved by Faculty Advisor.

1. I.E. class counts for one _____ 2. _____

3. _____ 4. _____

INTEGRATIVE EXPERIENCE (IE) REQUIREMENT

This is a major-specific General Education requirement typically completed in a student's Junior or Senior Year. Environmental Science majors can choose from among the following courses:

- ENVIRSCI 445: Problem Solving in the Community (Fall)
- GEOLOGY 394LI: Earth History: Life, Climate & Environment (Spring)
- GEOLOGY 494LI: Living on Earth: Real-world Issues in Geosciences (Spring)
- NRC 382: Human Dimensions in Natural Resource Mgt (Spring)
- NRC 394EI: Evaluating Sustainable Systems (Spring, economics pre-req)
- NRC 494EI: Environmental Decision Making (Spring)
- NRC 494GI: Global Change Ecology (Fall, odd years)
- NRC 494JI: Social Movements & Environmental Justice (Fall)
- STOCKSCH 494IE: Global Issues in Applied Biology (Spring)

PRAXES REQUIREMENT: ENVIRSCI majors must complete TWO hands-on courses. Choose from approved list (found on program website), or select another course within the Five-College system with your faculty advisor's approval. Independent Study (ENVIRSCI 396 or 496) or Internships (ENVIRSCI 398 or 498) may also satisfy this requirement.

1. _____ 2. _____

Specific Praxes courses can also count as upper-level electives if 300+level and taken for a grade
(this excludes 396 and 496 and 499 courses)