

**Environmental Science Program**  
**Student Checklist – Entering Fall 2012 or later**

Name \_\_\_\_\_  
Term Starting \_\_\_\_\_

**GENERAL EDUCATION REQUIREMENTS-see reverse of sheet**

Requirements differ based on when 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](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 100 \_\_\_(both terms) BIOL 101 \_\_\_ (Spring only, min. grade "C" needed in BIO 100)

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)

GEOSCI 100 or 101 \_\_\_\_\_ PHYSICS 131 \_\_\_\_\_

MATH 127 \_\_\_\_\_ 128 \_\_\_\_\_ Calculus I and II (courses offered both terms. No min. grade)

RES-ECON 211 \_\_\_\_\_ Statistics (alternate Stats courses accepted: STATISTC 240, RESECON 212)

RES-ECON 262 \_\_\_\_\_ Environmental Economics (Spring)  
or RES-ECON 263 \_\_\_\_\_ Natural Resource Economics (Fall) –no prerequisite

**REQUIRED ENVIRONMENTAL SCIENCES CORE COURSES**

ES191A \_\_\_\_\_ (Fall) ES194A \_\_\_\_\_(Spring) Seminar I & II ES294A \_\_\_\_\_ Career/Curr Seminar

ENVIRSCI 101 \_\_\_\_\_ Intro Envir. Biology (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 101 needed 1st)

ENVIRSCI 315 \_\_\_\_\_ Environmental Tox. and Chemistry (Spring only; Organic Chem needed 1st)

NATSCI 397A\_\_\_\_\_ 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. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

## **GENERAL EDUCATION REQUIREMENTS**

### **For Students Entering UMASS as Freshmen (Fall 2010 and later)**

College Writing (CW) \_\_\_\_\_ R1 (Math 127) R2 (MATH 127)  
Biological Science (BS) BIOLOGY 100 Physical Science (PS) CHEM 111  
\*Art or Literature (AL or AT, 4 cr.) \_\_\_\_\_ \*HISTORY (HS), 4 cr. \_\_\_\_\_  
Social/Behavioral Science (SB) RESECON 262 or 263  
\*Additional Social World (AL, AT, or SB) or Interdisciplinary (I or SI), 4 cr. \_\_\_\_\_  
\*United States Diversity (U) \_\_\_\_\_ \*Global Diversity (G) \_\_\_\_\_

### **For Students Entering UMASS as Transfer Students (Fall 2010 and later)**

College Writing (CW) \_\_\_\_\_ R1 (Math 127) R2 (MATH 127)  
Biological Science (BS) BIOLOGY 100 Physical Science (PS) CHEM 111  
\*Art or Literature (AL or AT, 3 or 4 cr.) \_\_\_\_\_ \*HISTORY (HS), 3 or 4 cr. \_\_\_\_\_  
Social/Behavioral Science (SB) RESECON 262 or 263  
\*Additional Social World (AL, AT, or SB) or Interdisciplinary (I or SI), 3 or 4 cr. \_\_\_\_\_  
Two add'l 3-4 credit GenEd courses (R1/R2, BS, PS, AL, AT, HS, SB, I) CHEM 112 , BIOL 101  
\*United States Diversity (U) \_\_\_\_\_ \*Global Diversity (G) \_\_\_\_\_

**\* Only requirements with asterisk (\*) remain to be filled after completing ENVIRSCI major requirements.**

## **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 (Spring offering)
- NRC 382: Human Dimensions in Natural Resource Conservation (Fall offering)
- GEO-SCI 494LI: Living on Earth: Real-world Issues in Geosciences (Fall offering)
- NAT-SCI 494I: Global Issues in Applied Biology (Spring offering)

**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.

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