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
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: STATISTIC 240 -or- RES-ECON 212 or NRC 290B _____________
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)
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 & Spring offering)
- GEOLOGY 494LI: Living on Earth: Real-world Issues in Geosciences (Spring offering)
- NAT-SCI 494IE: Global Issues in Applied Biology (Fall offering)
- NRC 490S: Sustainable Systems: Evaluating Local Solutions (Fall & Spring, statistics pre-req)
- NRC 494EI: Environmental Decision Making (Fall)
- NRC 382: Human Dimensions in Natural Resource Mgt (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. ____________________________________

Praxes courses can also count as upper-level electives if 300+ level and taken for a grade.

GENERAL EDUCATION REQUIREMENTS

For Students Entering UMASS as Freshmen

College Writing (CW) ____________  R1 (Math 127)  R2 (MATH 127)
Biological Science (BS) BIOLOGY 151  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

College Writing (CW) ____________  R1 (Math 127)  R2 (MATH 127)
Biological Science (BS) BIOLOGY 151  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 additional 3 or 4 credit GenEd courses (R1/R2, BS, PS, AL, AT, HS, SB, I) CHEM 112 , BIOL 152
*United States Diversity (U) ____________  *Global Diversity (G) ____________

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