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 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: STATISTIC 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)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Writing (CW)</td>
<td>R1 (Math 127) R2 (MATH 127)</td>
</tr>
<tr>
<td>Biological Science (BS)</td>
<td>RESECON 262 or 263</td>
</tr>
<tr>
<td>Physical Science (PS)</td>
<td></td>
</tr>
<tr>
<td>*Art or Literature (AL or AT, 4 cr.)</td>
<td>*HISTORY (HS), 4 cr.</td>
</tr>
<tr>
<td>Social/Behavioral Science (SB)</td>
<td></td>
</tr>
<tr>
<td>*Additional Social World (AL, AT, or SB) or Interdisciplinary (I or SI), 4 cr.</td>
<td></td>
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<tr>
<td>*United States Diversity (U)</td>
<td>*Global Diversity (G)</td>
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</table>

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

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</thead>
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<td>R1 (Math 127) R2 (MATH 127)</td>
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</tr>
<tr>
<td>Physical Science (PS)</td>
<td></td>
</tr>
<tr>
<td>*Art or Literature (AL or AT, 3 or 4 cr.)</td>
<td>*HISTORY (HS), 3 or 4 cr.</td>
</tr>
<tr>
<td>Social/Behavioral Science (SB)</td>
<td></td>
</tr>
<tr>
<td>*Additional Social World (AL, AT, or SB) or Interdisciplinary (I or SI), 3 or 4 cr.</td>
<td></td>
</tr>
<tr>
<td>Two add’l 3-4 credit GenEd courses (R1/R2, BS, PS, AL, AT, HS, SB, I)</td>
<td>CHEM 112 , BIOL 101</td>
</tr>
<tr>
<td>*United States Diversity (U)</td>
<td>*Global Diversity (G)</td>
</tr>
</tbody>
</table>

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

## INTEGRATIVELY 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.