

Status: PENDING

**PROGRAM REQUEST**  
Environmental Policy and Decision Making

Last Updated: Pfister, Jill Ann  
01/14/2011

**Fiscal Unit/Academic Org** Sch of Enviro&Natural Res - D1173  
**Administering College/Academic Group** Food, Agric & Environ Science  
**Co-administering College/Academic Group**  
**Semester Conversion Designation** Re-envisioned with significant changes to program goals and/or curricular requirements (e.g., degree/major name changes, changes in program goals, changes in core requirements, structural changes to tracks/options/courses)  
**Current Program/Plan Name** Environmental Policy and Management  
**Proposed Program/Plan Name** Environmental Policy and Decision Making  
**Program/Plan Code Abbreviation** ENVPLMG-BS  
**Current Degree Title** Bachelor of Science Environment&Natural Resources

**Credit Hour Explanation**

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		181	120.7	121	0.3
Required credit hours offered by the unit	Minimum	73	48.7	45	3.7
	Maximum	133	88.7	83	5.7
Required credit hours offered outside of the unit	Minimum	48	32.0	38	6.0
	Maximum	108	72.0	76	4.0
Required prerequisite credit hours not included above	Minimum				
	Maximum	0	0.0	0	0.0

**Explain any change in credit hours if the difference is more than 4 semester credit hours between the values listed in columns B and C for any row in the above table**

The maximum number of credits offered in the unit has decreased slightly (and the minimum outside the unit increased) because we have dropped a cross-list. Otherwise, the credit hour proportions are roughly the same as in quarters.

**Program Learning Goals**

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

- Program Learning Goals**
- Critical thinking/problem solving
  - Application of theoretical concepts
  - Communication (oral, written/graphic)
  - Understanding of natural systems, with breadth across biotic and abiotic component
  - Understanding of human systems, with breadth across three levels of organization: individual, community, and polity as well as depth in a topical issue area
  - Understanding of coupled systems
  - Demonstrate professional competency

**Assessment**

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? Yes

Does the degree program or major have an assessment plan on file with the university Office of Academic Affairs? No

**DIRECT MEASURES (means of assessment that measure performance directly, are authentic and minimize mitigating or intervening factors)**

**Classroom assignments**

- Other classroom assessment methods (e.g., writing assignments, oral presentations, oral exams)

**Evaluation of a body of work produced by the student**

- Capstone course reports, papers, or presentations

**INDIRECT MEASURES (means of assessment that are related to direct measures but are steps removed from those measures)**

**Surveys and Interviews**

- Student survey
- Alumni survey
- Student evaluation of instruction
- Student interviews or focus groups

**USE OF DATA (how the program uses or will use the evaluation data to make evidence-based improvements to the program periodically)**

- Meet with students directly to discuss their performance
- Analyze and discuss trends with the unit's faculty
- Analyze and report to college/school
- Make improvements in curricular requirements (e.g., add, subtract courses)
- Make improvements in course content
- Periodically confirm that current curriculum and courses are facilitating student attainment of program goals

**Program Specializations/Sub-Plans**

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

<b>Program Specialization/Sub-Plan Name</b>	Climate Change (New)
<b>Program Specialization/Sub-Plan Goals</b>	<ul style="list-style-type: none"> <li>• Students will gain natural and social scientific understanding of climate change causes, impacts, and possible solutions.</li> <li>• Students will be able to articulate links between human and natural systems.</li> </ul>
<b>Program Specialization/Sub-Plan Name</b>	Water Conservation (New)
<b>Program Specialization/Sub-Plan Goals</b>	<ul style="list-style-type: none"> <li>• Students will gain understanding of the legal, institutional, and historical foundations of water conservation issues.</li> <li>• Students will develop the ability to link human decisions and policies with water quality outcomes.</li> <li>• Students will be able to connect human and aquatic communities in watersheds and wetlands.</li> </ul>
<b>Program Specialization/Sub-Plan Name</b>	International Issues (New)
<b>Program Specialization/Sub-Plan Goals</b>	<ul style="list-style-type: none"> <li>• Students will gain awareness of environmental issues globally.</li> <li>• Students will gain understanding of the role of the U.S. in global environmental issues.</li> <li>• Students will gain understanding of the role of global environmental issues on U.S. environmental policy making and crisis management.</li> <li>• Students will understand policy and behavioral links between humans and the environment across cultural and legal contexts.</li> </ul>

## Pre-Major

Does this Program have a Pre-Major? No

## Attachments

- EPDMrationale.doc: EPDM program rationale  
*(Program Rationale Statement. Owner: Hitzhusen, Gregory Ernest)*
- EPDMcmap.xls: EPDM curriculum map  
*(Curricular Map(s). Owner: Hitzhusen, Gregory Ernest)*
- EPMqtrAdvSheet.pdf: EP(D)M quarter advising sheet  
*(Quarter Advising Sheet(s). Owner: Hitzhusen, Gregory Ernest)*
- SENR\_Q2S\_Transition\_Plans.pdf: SENR Transition Plans  
*(Transition Policy. Owner: Hitzhusen, Gregory Ernest)*
- SENRcourseNumbers11-25.xls: SENR full course list  
*(List of Semester Courses. Owner: Hitzhusen, Gregory Ernest)*
- SENR\_Assessment.doc: SENR prelim. assessment plan  
*(Other Supporting Documentation. Owner: Hitzhusen, Gregory Ernest)*
- SENRcoverLetterFinal.pdf: SENR cover letter  
*(Letter from Program-offering Unit. Owner: Hitzhusen, Gregory Ernest)*
- EPDM\_Sem\_AdvFinal.pdf: EPDM semester advising sheet  
*(Semester Advising Sheet(s). Owner: Hitzhusen, Gregory Ernest)*

## Comments

- List of semester courses for the major is contained in the semester advising sheets; full list of SENR courses is attached in spreadsheet.  
Note: code for degree title should change to reflect the revision in the title of this major - the Program/Plan Code Abbreviation should now be: "ENVPDM-BS"  
Three-letter codes for specializations are:  
CCP=climate change  
IIP=international issues  
WCP=water conservation *(by Hitzhusen, Gregory Ernest on 12/12/2010 02:45 PM)*

Status: PENDING

**PROGRAM REQUEST**  
Environmental Policy and Decision Making

Last Updated: Pfister, Jill Ann  
01/14/2011

**Workflow Information**

Status	User(s)	Date/Time	Step
Submitted	Hitzhusen, Gregory Ernest	11/26/2010 11:17 PM	Submitted for Approval
Revision Requested	Hitzhusen, Gregory Ernest	12/10/2010 02:45 PM	Unit Approval
Submitted	Hitzhusen, Gregory Ernest	12/12/2010 02:45 PM	Submitted for Approval
Approved	Hitzhusen, Gregory Ernest	12/12/2010 02:46 PM	Unit Approval
Revision Requested	Pfister, Jill Ann	01/13/2011 11:57 AM	SubCollege Approval
Submitted	Hitzhusen, Gregory Ernest	01/13/2011 02:00 PM	Submitted for Approval
Approved	Hitzhusen, Gregory Ernest	01/13/2011 02:00 PM	Unit Approval
Approved	Pfister, Jill Ann	01/14/2011 05:16 PM	SubCollege Approval
Approved	Pfister, Jill Ann	01/14/2011 05:16 PM	College Approval
Pending Approval	Soave, Melissa A	01/14/2011 05:16 PM	CAA Approval



## School of Environment and Natural Resources

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Fax (614) 292-7432  
<http://senr.osu.edu>

To: The Office of Academic Affairs

From: Ron Hendrick, Professor and Director

Date: June 30, 2011

Re: School of Environment and Natural Resources Semester Program Proposals

The faculty and staff of the School of Environment and Natural Resources (SENR) have completed a thorough review and revision of our undergraduate and graduate curricula in preparation for the conversion to semesters, and the SENR faculty has voted to recommend that the Office of Academic Affairs approve the attached semester curriculum proposals. In addition to the work of several curricular sub-committees within the School, the SENR Academic Affairs Committee reviewed and approved all semester conversion plans for undergraduate programs, and the SENR Graduate Studies Committee reviewed and approved plans for the MS, PhD, and MENR graduate programs. SENR faculty approved these semester plans by unanimous vote (25 in favor, 0 opposed, 0 abstentions) on April 16, 2010; subsequent minor revisions and updates to the plans have been approved by SENR curriculum committees as appropriate.

The following outline details the SENR programs proposed for semester: A) conversion, B) new approval, C) termination, and D) conversion with minimal changes but subsequent termination.

**A. Existing SENR programs to be converted to semesters include:**

(Note: Rural Sociology programs included below became part of SENR in 2010; program degree codes are in parentheses following program titles; specialization three-letter codes are in parentheses following specializations.)

**Four Undergraduate Majors:**

- 1) Environmental Science (ENVSCI-BS): *modified from four to five specializations representing existing focal areas in the major, including Ecosystem Restoration (ECR), Water Science (WTR), Environmental Molecular Science (EMS), Soil Resources and Environmental Sustainability (SOI), and Environmental Science Education (ESE).*
- 2) Forestry, Fisheries, and Wildlife (FFW-BS): *converted as semester equivalent, with appropriate revisions to maintain certification and double-certification options uniquely available (compared with other programs nationally) to students in this major, including Society of American Foresters (SAF) accreditation and The Wildlife Society (TWS) and American Fisheries Society (AFS) certifications. Three-letter specialization codes for FFW specializations (FAS, FOR, FWM, UFW, WFS, WPV, WLS) are detailed in the comment field of the FFW-BS program request.*
- 3) Environmental Policy and Decision Making (ENVPDM-BS): *modified in title (previously Environmental Policy and Management (EPM)) and designating three specializations based on existing focal areas in the major: Climate Change (CCP), International Issues (IIP), and Water Conservation (WCP).*
- 4) Natural Resource Management (NATRESM-BS): *modified in title (previously Parks, Recreation & Tourism (PRT)) and designating three specializations based on existing and emerging focal areas (made possible by the addition of Rural Sociology faculty to SENR in 2010) in the major: Parks and Recreation Management (PRM), Natural Resource Administration and Management (NRA), and Sustainable Agriculture (SAG), with additional focus-area options (non-transcript) aligned with employment opportunities and existing programs in the School: Forestry, Fisheries, Wildlife, Soil and Water, Visitor Services, and Zoo Science and Management.*

**Two Undergraduate Minors:**

- 1) Soil Resources (SOILSCI-MN): *converted as semester equivalent.*
- 2) Rural Sociology (RURLSOC-MN): *converted as semester equivalent.*

**Two Graduate Degree Programs:**

- 1) Master of Science (ENVNATR-MS): converted as **semester equivalent**
- 2) Doctor of Philosophy (ENVNATR-PH): converted as **semester equivalent**

The Environment and Natural Resources Graduate Program awards both MS and PhD degrees in seven areas of specialty (all converted as **semester equivalents**):

- Ecological Restoration (ERS)
- Ecosystem Science (ECS)
- Environmental Social Sciences (ESS)
- Rural Sociology (RS)
- Fisheries and Wildlife Science (FWS)
- Forest Science (FS)
- Soil Science (SSC)

**Three Graduate Minors** (all converted as **semester equivalents**):

- 1) Environment and Natural Resources (ENVNATR-GM)
- 2) Soil Science (SOILSCI-GM)
- 3) Rural Sociology (RURLSOC-GM)

**One Professional Degree Program** (converted as **semester equivalent**):

- 1) Master of Environment and Natural Resources (ENVNAT-MEN)

**Three Combined Programs** (all combined programs will be converted as **semester equivalents**, and impose no additional requirements or provisions beyond the requirements of the combined degrees. As such, and abiding all college and university rules of the degree-granting partners, forms for **these combined degrees are not included in these SENR semester electronic program proposals**):

- 1) Combined BS/MS
- 2) Combined BS/MENR
- 3) Dual Degree Program with the John Glenn School of Public Affairs: MS/ or MENR/MAPPM (Master of Arts in Public Policy and Management) or MS/ or MENR/MPA (Master of Public Administration)

**B. New SENR semester programs proposed for approval by OAA:**

Four undergraduate minors have been developed for semesters. Three minors correspond with existing majors in the School; three of these minors collectively replace the Natural Resources Management minor (listed as terminated, below). The fourth minor, Sustainable Agriculture, has been developed through the collaboration of Rural Sociology and Soils faculty, together with colleagues from across the College of Food, Agricultural and Environmental Sciences.

**Undergraduate Minors:**

- 1) Environmental Science (ENVSCI-MN)
- 2) Forestry, Fisheries & Wildlife (FFW-MN)
- 3) Society and Environmental Issues (SOCENV-MN)
- 4) Sustainable Agriculture (SUSTAGR-MN)

**C. SENR programs to be terminated:**

Each listed below is an old program name that has been replaced by current programs listed above, either through revised titles (1-3), being subsumed as a specialization into the ENR MS and PhD (4-7), or being replaced by more targeted options (8).

- 1) Fisheries and Wildlife Management (FWMGT-BS): no students remain under this old title
- 2) Forestry and Urban Forestry (FORUF-BS): no students remain under this old title
- 3) Human Dimensions in Natural Resources (HDNR-BS): no students remain under this old title
- 4) Natural Resources (NATRES-PH): no students remain under this old title
- 5) Natural Resources (NATRES-MS): no students remain under this old title
- 6) Soil Science (SOILSCI-PH): all students remaining under this old title will graduate by 2012
- 7) Soil Science (SOILSCI-MS): all students remaining under this old title will graduate by 2012

8) Natural Resources Management Minor (NATRESM-MN): this minor is being terminated because of its broad scope and is being replaced by the more specific new minors listed above that correspond to existing majors; no new students will be admitted after Spring 2012, and this minor should be terminated upon moving current students to appropriate (more targeted) new minors, which should be completed by Summer 2012.

**D. SENR programs to be converted with minimal changes, but to be terminated thereafter:**

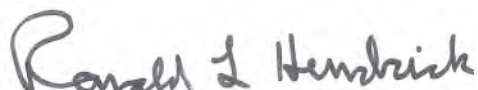
No new students will be admitted to these programs effective immediately; the programs should be terminated upon the completion of the last student in the program, which should be no later than Spring 2015.

- 1) Rural Sociology (RURLSOC-MS)
- 2) Rural Sociology (RURLSOC-PH)

SENR faculty and staff have worked tirelessly to develop these plans, engaging in a thorough and collegial process. Two faculty retreats devoted significant time to semester conversion plans, and all faculty meetings beginning in the fall of 2009 included updates and discussion about semester conversion planning. Dr. Greg Hitzhusen was appointed by the School as a point person to facilitate Q2S planning, participated in regular UCAT Q2S workshops with colleagues from across the university, and established a Carmen site to share and organize Q2S working documents and resources. In addition to the committees mentioned above, several new committees led the curriculum development process, including four faculty working groups formed within each of the majors, and a core curriculum committee of a dozen faculty representing all of the specializations across the four undergraduate majors and including myself and the chairs of the Grad Studies Committee and Academic Affairs Committee. These groups reviewed all recent SENR curriculum revisions, researched semester programs of peer institutions, and generated creative proposals of how to improve and better integrate our multi-disciplinary curriculum. Curriculum mapping revealed gaps and overlap in our curriculum; to match our semester courses to our learning goals, at least nine new courses have been proposed, several others have been merged, and at least 75 courses will be discontinued. As a previous director of a Natural Resources program that underwent semester conversion at the University of Georgia, I provided guidance to revise SENR's curricular offerings around our core strengths, guided by learning outcome goals and encouraging options beyond existing structures and traditions. Several SENR faculty and staff participated in the College of Food, Agricultural, and Environmental Sciences bi-weekly Q2S Implementation Committee meetings starting in November 2009, sharing planning ideas with Q2S point people from across the College.

We also based our semester curriculum development on several faculty-led research efforts. Our social science faculty created a survey of environmental curriculum interests and career goals for CFAES, SENR and OSU undergraduate student samples, and results from over 1300 respondents (published results now *in press*) informed our vision of student interests, needs, and knowledge about the environmental topics addressed in SENR programs. We also completed phone interviews with SENR alumni and stakeholders to examine curricular elements most valuable to graduates and employers. And I conducted exit interviews of SENR students to better understand their experience in SENR programs. These measures and the efforts mentioned above collectively led the faculty to propose an expanded core of courses to help SENR students better integrate natural and social science elements of the curriculum, and to modify the majors as described above. The core curriculum committee will remain intact to monitor the quality and success of the semester curriculum, and make revisions as appropriate into the future.

This proposed curriculum represents welcome changes that increase the efficiency and complementarity of SENR programs, maximizing the expertise of our faculty and improving opportunities for SENR students to prepare for graduate education and succeed in their professional careers. I have also attached a commentary detailing SENR's preliminary assessment plans for semester programs. These program proposals reflect the outstanding collaborative efforts of SENR faculty to prepare for the semester transition. I heartily recommend approval of these plans, and appreciate OAA's ongoing efforts to strengthen our curriculum in OSU's transition to semesters.



Ronald L. Hendrick, Ph.D.  
Director, SENR

<b>Fiscal Unit/Academic Org</b>	Sch of Enviro&Natural Res - D1173
<b>Administering College/Academic Group</b>	Food, Agric & Environ Science
<b>Co-administering College/Academic Group</b>	
<b>Semester Conversion Designation</b>	Re-envisioned with significant changes to program goals and/or curricular requirements (e.g., degree/major name changes, changes in program goals, changes in core requirements, structural changes to tracks/options/courses)
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<b>Proposed Program/Plan Name</b>	Environmental Policy and Decision Making
<b>Program/Plan Code Abbreviation</b>	ENVPLMG-BS
<b>Current Degree Title</b>	Bachelor of Science Environment&Natural Resources

### Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
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## Pre-Major

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### Rationale for EPDM program and changes:

The proposed changes are designed to update the current major to address current needs in environmental policy and decision making (last significant program revision was 2006). The current major includes some required courses that are more germane to students interested in resource management than to those interested in environmental policy and decision making. It does not fully integrate knowledge across the social sciences; nor does it always ensure that students gain depth of knowledge within a particular issue area. The new proposed structure creates a more formal set of issue areas that can be supported with particular course work. In addition, it places an array of social sciences within a framework of organizational level – individual, community, and polity – that will better enable students to work across disciplines to address environmental and natural resource problems. This structure allows us to leverage the new talent represented in the cadre of rural sociology faculty who recently joined the School. The proposed curriculum has been developed through researching comparable programs nationwide, discussions with current students and program alumni, and potential future employers and reflects their input as to the coursework required to provide the necessary theoretical understanding and practical experience to be successful in their future careers.

The EPDM specializations were created to provide additional structure to students when choosing what courses to take beyond the required core for the major; the specializations were designed to reflect existing focal areas in the School as well as common areas of interest for current students in our EPM major who must self-design their specialization. ENR faculty possess expertise in clusters around these specializations, and each of these represent important areas of environmental policy and decision making, as identified through researching comparable programs nationwide, discussions with current students and program alumni, and potential future employers and reflects their input as to the coursework required to provide the necessary theoretical understanding and practical experience to be successful in their future careers.

# SENR Environmental Policy & Decision Making

121 Hours - Q2S Curriculum Draft 2.5.1 – Summer Semester 2012

9 of 41  
Sem Advising Sheet  
and course lists

COURSE & NUMBER	HRS		COURSE & NUMBER	HRS	
<b>UNIVERSITY REQUIREMENTS (GE)</b>			<b>SENR REQUIREMENTS</b>		
<i>Writing Skills</i>			<i>SENR CORE REQUIREMENTS</i>		
<b>6 Hours</b>			<b>21 Hours</b>		
English X110 (GE Course 1: Writing Level 1)	3		ENR 1000 (FAES Survey combined with ENR 119)	1	
ENR 2367 (GE Course 2: Writing Level 2)	3		ENR 2100 (Intro to Environmental Science) (GE Open Option 1)	3	
<i>Arts &amp; Humanities</i>			ENR 2300 (Society and Natural Resources) (GE Open Option 2)		
<b>12 Hours</b>			3		
GE Literature Course (GE Course 3: Literature) ●★◆	3				
GE Arts Course (GE Course 4: Arts) ●★◆	3				
GE History Course (GE Course 9: Historical Study) ●★◆	3		ENR 3300 (Intro to Forestry, Fisheries & Wildlife)	3	
GE Culture & Ideas or Historical Study (GE Course 12) ●★◆ [Recommended: ENR 347/3470 (Religion & Environmental Values in America)]	3		ENR 3400 (Psychology of Environmental Problems) or ENR 3500 (Community, Environment & Development)	3	
<i>Social Sciences</i>			ENR 4000 (Natural Resources Policy)		
<b>6 Hours</b>			3		
Rural Sociology 105/1500 (Recommended) or GE Social Science (GE Course 10: Social Science 1) ●★◆	3		ENR 3700 (Intro to Spatial Info for Natural Resources)	2	
AED Econ 2001 or Economics X200 (Microeconomics) (GE Course 11: Social Science 2)	3		ENR 4900.01 (Natural Resources Mgt)	3	
<i>Diversity Courses</i>			<i>EPDM MAJOR CORE REQUIREMENTS</i>		
<b>overlapping</b>			<b>9 Hours</b>		
Social Diversity in US ●	----		ER 3400 or ENR 3500 (take one not taken for SENR core)	3	
Global Studies Course 1 ★◆	----		AED 531/5310 (Env Nat Res Economics)	3	
Global Studies Course 2 ★◆	----		ENR 640/5640 (Nat Res Program Planning)	3	
<i>Data Analysis, Quantitative &amp; Logical Skills</i>					
<b>7 Hours</b>					
ENR 2000 (Recommended) or GE Equivalent Statistics course (GE Course 6: Data Analysis)	3		<i>EPDM Additional Core Requirements</i>		<b>18 Hours</b>
Math 1130 (College Algebra for Business or Math 1148 (College Algebra) (GE Course 5: Math & Logical Skills)	4		<i>EPDM Major Specializations:</i>		<b>15 Hours</b>
<i>Natural Sciences</i>			<b>Climate Change</b>		
<b>12 Hours</b>			<b>International Issues</b>		
Chemistry XXXX (Chemistry 101/102 equiv)	5		<b>Water Conservation</b>		
Biology 1113 (Intro Biology I)	4				
ENR 3000 (Intro to Soil Science)	3				
<i>Free Electives</i>			<b>MINIMUM HRS FOR GRADUATION</b>		
<b>15 Hours</b>			<b>121 Hours</b>		

<b>EPDM Major Additional Core Requirements</b>	<b>Units</b>
<b>(Select 1 course from each category + 3 more courses)</b>	<b>18</b>
<b>Individuals and Communities Courses</b>	3
ENR 3470 Religion & Environmental Values in America	3
ENR H 648/5448H Tragedy of the Commons	3
RS 378/3580 Social Groups in Developing Societies	3
RS 542/4500 Leadership & Community Development	3
RS 662/5500 Diffusion of Innovation	3
RS 688/5580 Social Impact Assessment	3
RS 766/7560 Environmental Sociology	3
RS 666/6500 Rural Poverty & Environment	3
<b>Polity Courses</b>	
ENR 340/3600 Management of Public Lands	2
ENR 601/5210 Environmental Impact Assessment	3
ENR 649/5649 Wildlife Conservation Policy	3
ENR 651/6451 Water Institutions and Policy	3
ENR 736/5325 Public Forest & Lands policy	3
ENR 752/7520 Environmental Science and Law or ENR 4xxx Legal Process	3
ENR 738/7380 Climate & Society	3
<b>Professional Courses</b>	
ENR 601/5210 Environmental Impact Assessment	3
ENR 311/3611 Foundations for Environmental Education, Communications & Interpretation	2
ENR 340/3600 Management of Public Lands	2
ENR 410/4611 Env Interp and Visitor Services	3
ENR 448/4648 Natural Resources Law Enforcement	3
ENR 642/5642 Natural Resources Administration & Management	3
ENR 684/689/4191 Internship	3
CRP/Geography/Geod/ES GIS course	2
AEDE 631 Benefit-Cost Analysis	3
ENR 7400 Communicating Environmental Risk	3
RS 688/5580 Social Impact Assessment	3

<b>EPDM major Specialization (pick 4-5 courses from one specialization)</b>	<b>15</b>
<i>Note: these courses cannot double count for EPDM major Additional Core</i>	
<b>Climate change</b>	
ENR 155/2250 Energy and the Environment	3
ES 425/4425 Energy Resources and Sustainability	3
ENR 738/7380 Climate and Society	3
AEDE 565 Global Climate Change: Economic Implications and Opportunities	3
Geog 520/5900 Climatology	3
Geog 420/3900 Global Climate Change	3
SENR/Geog/EEOB 3x1 (2-course series)	
SENR/Geog/EEOB 3x2 (2-course series)	
<b>International issues</b>	<b>3</b>
RS 378/3580 Social Groups in Developing Countries	3
ENR 602/5211 International Environmental Impact Assess	3
ENR/Womens Studies 3530 Women, Env. & Development	3
AEDE 597.01 World Population, Food and Env.	3
AEDE 532 Food Security and Globalization	3
AEDE 535 Econ Processes in Developing Countries	3
AEDE 537, 538, or 539 Economic Development in Middle East, Latin America, China	3
Poli Sci 145 Global Politics	3
Poli Sci 245 The U.S. in World Politics	3
Poli Sci 532, 533, 534, 537, 539, 540, etc. Politics of Southern Europe, Russia, Northern Europe, etc.	3
Poli Sci 559 International Environmental Politics	3
Geog 505/3752, 510/3753, 512/3754, Geography of South America, W. Europe, etc.	3
Geog 635/5802 Globalization and Environment	3
Study Abroad	3
<b>Water conservation</b>	
ENR 355/3280 Water Quality Management	3
ENR 675/5273 Environmental Fate and Impact of Contaminants in Soil and Water	3
ENR 622/5520 Stream Ecology	3
ENR 651/6451 Water Resources and Institutions	3
ES 411/3411 Water Security for the 21st Century	3
ENR 725/5250.01 Wetland Ecology and Restoration	3
<b>Univ GEC Total/SENR Core Total</b>	<b>88</b>
<b>EPDM Additional Core &amp; Specialization Total</b>	<b>33</b>
<b>Degree Total</b>	<b>121</b>

# Environmental Policy & Management

COURSE & NUMBER	HRS	✓	COURSE & NUMBER	HRS	✓
<b>UNIVERSITY REQUIREMENTS (GEC)</b>			<b>UNIVERSITY REQUIREMENTS (GEC)</b>		
FAES 100 (University Survey)	1		<b>Arts and Humanities</b>	<b>20 Hours</b>	
<b>Writing Skills</b>	<b>15 Hours</b>		GEC Literature <sup>1</sup> ★◆●	5	
ENGLISH 110.01 or 110.02	5		GEC Visual/Performing Art <sup>1</sup> ★◆●	5	
ENR 367 <sup>2</sup> † or LARCH 367 <sup>2</sup> † (2nd Writing Course)	5*		ENR 367 <sup>2</sup> † or LARCH 367 <sup>2</sup> † or other GEC Humanities	5*	
ENR 567 (3rd Writing Course)	5		GEC History Course <sup>1</sup> ★◆	5	
<b>Data Analysis, Quantitative &amp; Logical Skills</b>	<b>9 Hours</b>		<b>Social Sciences</b>	<b>15 Hours</b>	
MATH 130, MATH 148 or above	4		AEDECON 200 or ECON 200	5	
ENR 222 (recommended), STAT 135, STAT 145, HCS 260 or ANIMSCI 260	5		ENR 400	5	
<b>Natural Sciences</b>	<b>20 Hours</b>		Third Social Science <sup>1</sup> ★◆●	5	
CHEM 101 or CHEM 121	5		<b>Diversity Experiences</b>		
CHEM 102 or CHEM 122	5		<b>International Issues Non-western/Global Focus<sup>1</sup> ★</b> A Study Abroad experience may be used toward this requirement with degree unit approval.	5*	
BIOLOGY 113	5		<b>International Issues Western Focus (non-U.S.)<sup>1</sup> ◆</b> A Study Abroad experience may be used toward this requirement with degree unit approval.	5*	
BIOLOGY 114	5		<b>Social Diversity in the U.S.<sup>1</sup> ●</b>	5*	
<b>ENR CORE REQUIREMENTS</b>	<b>19 Hours</b>				
ENR 119.01	1		<b>ADDITIONAL EPM MAJOR REQUIREMENTS</b>	<b>51 Hours</b>	
ENR 201	5		ENR/AEDECON 531	5	
ENR 203	5		ENR 601, ENR 752 or another law course with faculty advisor approval	4	
ENR 300.01	3		<b>Select two:</b> ENR 649, ENR 651, ENR 736, ENR 738 or another policy course with faculty advisor approval	8-9	
ENR 606.01	5		Additional ENR courses focused in one of four areas (Water, Soils, Forestry or Wildlife) with faculty advisor approval	12	
			Additional Specialization Course (200 level or above) with faculty advisor approval	21-22	
<b>EPM MAJOR REQUIREMENTS</b>	<b>18 Hours</b>		<b>MINIMUM HRS FOR GRADUATION</b>	<b>181 Hours</b>	
ENR 340	3				
ENR 615	5				
ENR 640	5				
<b>Select one advanced Social Science course:</b> recommended courses HDFS 361, HDFS 364, POLITSC 245, POLITSC 300, POLITSC 305, POLITSC 510, PSYCH 300, PSYCH 310, PSYCH 312, PSYCH 325, RURLSOC 378, SOCIOL 345, SOCIOL 391 or another course approved by faculty advisor	5				
<b>Free Electives</b> ★◆●	<b>18 Hours</b>				

<sup>1</sup> From GEC list.

<sup>2</sup> Other 367 courses may be substituted for the 2nd writing requirement. Five additional hours required from Part B of Arts & Humanities (Analysis of Texts & Works of Art).

\* Requirements may be double counted with another GEC requirement. If you do not overlap these courses, additional coursework will be required to complete your degree requirements.

† Fulfills both GEC 2nd writing & GEC Cultures & Ideas requirements simultaneously.

★ Students are permitted and recommended to double count their GEC International Issues: Non-western/Global Focus (non U.S.) requirements another GEC category.

◆ Students are permitted and recommended to double count their GEC International Issues: Western Focus requirement with with another GEC category.

● Students are permitted and recommended to double count their GEC Social Diversity in the U.S. requirement with another GEC category.



CONTRACTED SPECIALIZATION COURSES	Credit Hours	
ENR courses focused in one of four areas (Water, Soils, Forestry or Wildlife) with faculty advisor approval:	12	
Additional Specialization Courses (200 level or above) with faculty advisor approval:	21-22	
<b>Credit Hour Total:</b>		

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Faculty Advisor Signature

\_\_\_\_\_  
Date

## SUGGESTED 4 YEAR SEMESTER PLAN FOR BS-EPDM

**FIRST YEAR****Autumn Semester**

ENR 1000	1
MATH 1130 or 1148	4
CHEM X101/x102	5
ENR 2100	3
ENGLISH X110 or	
GE History/Soc Sci/Humanities	3

16

**Spring Semester**

ENR 2000 or Stat X145	3
BIOLOGY 1113	4
ENR 2300	3
ENR 3300	3
ENGLISH X110 or	
GE History/Soc Sci/Humanities	3

16

**May Term****Summer****SECOND YEAR****Autumn Semester**

BIOLOGY 1114 or additional BIOL or PHYS SCI or FFW Specialization	4
ENR 3400/3500 or AED ECON 2001	3
GE History/Soc Sci/Humanities or ENR 3000 or ENR 3600	3
GE second writing or GE History/Soc Sci or Humanities	3
EPDM Specialization	0-3

13-16

**Spring Semester**

BIOLOGY 1114 or additional BIOL or PHYS SCI or FFW Specialization	4
ENR 3400/3500 or AED 2001	3
GE History/Soc Sci/Humanities or ENR 3000 or ENR 3600	3
GE second writing or GE History/Soc Sci or Humanities	3
EPDM Specialization	0-3

13-16

**May Term****Summer****THIRD YEAR****Autumn Semester**

ENR 4000 or Specialization	3
ENR 3700 or NRM Specialization	3
ENR 5640	3
AED ECON 4310 or English X305	3
GE History/Soc Sci or Humanities	3

15

**Spring Semester**

ENR 4000 or Specialization	3
ENR 3700 or NRM Specialization	3
EPDM Specialization	3
AED ECON 4310 or English X305	3
GE History/Soc Sci or Humanities	3

15

**May Term****Summer****FOURTH YEAR****Autumn Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

15

**Spring Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

15

**May Term**

**Transition Plan - 4 YEAR SEMESTER PLAN FOR BS-EPDM**  
**1<sup>st</sup> year under Quarters with remaining three years under Semesters**

**FIRST YEAR****Autumn Quarter 2011**

MATH 130 or 148	4
CHEM 101	5
ENR 201	5
FAES 100	1

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 15
**Winter Quarter 2012**

ENR 222 or Stat 145	5
CHEM 102	5
ENR 203	5

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 15
**Spring Quarter 2012**

ENGLISH 110	5
ENR 203	5
AED ECON 200	5
ENR 119.01	1

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 16
**SECOND YEAR****Autumn Semester**

BIOLOGY X114 or additional BIOL or PHYS SCI or FFW Specialization	4
ENR 3400 or ENR 3500	3
GE History/Soc Sci/Humanities or ENR 3000 or ENR 36003	
GE second writing or GE History/Soc Sci/Humanities	3
EPDM Specialization	0-3

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 13-16
**Spring Semester**

BIOLOGY X114 or additional BIOL or PHYS SCI or FFW Specialization	4
ENR 3400 or 3500	3
GE History/Soc Sci/Humanities or ENR 3000 or ENR 3600	3
GE second writing or GE History/Soc Sci or Humanities	3
EPDM Specialization	0-3

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 13-16
**May Term****Summer****THIRD YEAR****Autumn Semester**

ENR 4000 or Specialization	3
ENR 3700 or NRM Specialization	3
ENR 5640	3
AED ECON 4310 or English X305	3
GE History/Soc Sci or Humanities	3

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 15
**Spring Semester**

ENR 4000 or Specialization	3
ENR 3700 or NRM Specialization	3
EPDM Specialization	3
AED ECON 4310 or English X305	3
GE History/Soc Sci or Humanities	3

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 15
**May Term****Summer****FOURTH YEAR****Autumn Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

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 15
**Spring Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

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 15
**May Term**

**Transition Plan - 4 YEAR SEMESTER PLAN FOR BS-EPDM**  
**1<sup>st</sup> and 2<sup>nd</sup> years under Quarters with remaining two years under Semesters**

**FIRST YEAR****Autumn Quarter 2011**

MATH 130 or 148	4
CHEM 101	5
ENR 201	5
FAES 100	1

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 15
**Winter Quarter 2012**

ENR 222 or Stat 145	5
CHEM 102	5
ENR 203	5

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 15
**Spring Quarter 2012**

ENGLISH 110	5
ENR 203	5
AED ECON 200	5
ENR 119.01	1

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 16
**SECOND YEAR****Autumn Quarter 2011**

BIOLOGY 114	5
ENR 300.01	3
GEC 2 <sup>nd</sup> writing	5
BIOLOGY 113	5

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 18
**Winter Quarter 2012**

ENR 340	3
ENR 400	5
GEC Course (Lit)	5
BIOLOGY 114	5

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 18
**Spring Quarter 2012**

ENR 642	5
GEC History	5
GEC SOC SCI	5

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 15
**THIRD YEAR****Autumn Semester**

ENR 4000 or Specialization	3
ENR 3700 or NRM Specialization	3
ENR 5640	3
AED ECON 4310 or English X305	3
GE History/Soc Sci or Humanities	3

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 15
**Spring Semester**

ENR 4000 or Specialization	3
ENR 3700 or NRM Specialization	3
EPDM Specialization	3
AED ECON 4310 or English X305	3
GE History/Soc Sci or Humanities	3

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 15
**May Term****Summer****FOURTH YEAR****Autumn Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

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 15
**Spring Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

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 15
**May Term**

**Transition Plan - 4 YEAR SEMESTER PLAN FOR BS-EPDM**  
**1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> years under Quarters with a remaining year under Semesters**

**FIRST YEAR****Autumn Quarter 2011**

MATH 130 or 148	4
CHEM 101	5
ENR 201	5
FAES 100	1

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 15
**Winter Quarter 2012**

ENR 222 or Stat 145	5
CHEM 102	5
ENR 203	5

---

 15
**Spring Quarter 2012**

ENGLISH 110	5
ENR 203	5
AED ECON 200	5
ENR 119.01	1

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 16
**SECOND YEAR****Autumn Quarter 2011**

BIOLOGY 114	5
ENR 300.01	3
GEC 2 <sup>nd</sup> writing	5
BIOLOGY 113	5

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 18
**Winter Quarter 2012**

ENR 340	3
ENR 400	5
GEC Course Course	5
BIOLOGY 114	5

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 18
**Spring Quarter 2012**

ENR 642	5
GEC Course	5
GEC Course	5

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 15
**THIRD YEAR****Autumn Quarter 2011**

ENR 640	5
ENR 615	5
ENR 567	5
ENR 601	4

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 19
**Winter Quarter 2012**

ENR 649	4
ENR 651	4
GEC Course	5
EPM Specialization	4

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 19
**Spring Quarter 2012**

EPM Specialization	5
GEC Course	5
GEC Course	5

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 15
**FOURTH YEAR****Autumn Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

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 15
**Spring Semester**

ENR 4900.01 or EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
EPDM Specialization	3
GE History/Soc Sci or Humanities	3

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 15
**May Term**

Unit	Qtr # plus suffix	Semester #	Sem units	1c: Course Title Long note: various colors in rows below are not important, but indicate some sort of revised or new course information	rank
ENR	100/119.01 ,02,03	1000	1	Environment and Natural Resources Survey	freshman, sophomore, junior, senior
ENR	100H	1000H	1	Environment and Natural Resources Survey	honors freshman
ENR	101	1010	4	Soils in Our Environment	freshman, sophomore
RURLSOC	105	1500	3	Introduction to Rural Sociology	Freshman, Sophomore, Junior, Senior
ENR	222	2000	3	Natural Resources Data Analysis	Sophmores freshmen,
ENR	201	2100	3	Introduction to Environmental Science	sophomores, juniors, seniors

each major  
will get  
assigned to a  
different  
section  
(rather than  
doing  
1000.01, .02,  
etc)

(Planet Earth -  
The Fragile  
Skin) had  
been  
discussed as  
a new title?

ENR	155	2155	4	Energy and Environment Natural Resources	freshman, sophomore, junior, senior
ENR	289	2191	1 or 2	Practicum	sophomore, junior, senior
ENR	203	2300	3	Society and Natural Resources	Freshmen, Sophomores
ENR	232	2320	3	Landscape Maintenance	Freshman, Sophomore, Junior, Senior
ENR	230	2360	3	Ecology and Conservation of Birds	Freshman, Sophomore, Junior and Senior
ENR	567	2367	3	Communicating Environmental and Natural Resources Information	freshman, sophomore, junior
ENR	300.01	3000	3	Soil Science	sophomore, junior, senior
ENR	300.02	3001	1	Soil Science Laboratory	sophomore, junior, senior
ENR	355	3280	2	Water Quality Management	sophomore freshman,
ENR	319	3300	3	Introduction to Forestry Fisheries and Wildlife	sophomore, junior, senior

old 567  
 converted to  
 new GE 2367.  
 "issues" was  
 considered in  
 title in place  
 of  
 "information"

20 of 41  
 Full SENR semester course  
 list, including courses  
 required for SENR  
 programs and all elective  
 courses

ENR	221	3321	3	Biology and Identification of Woody Forest Plants	freshman, sophomore, junior, senior
ENR	322	3322	3	Forest Ecosystems	freshman, sophomore, junior, senior
ENR	323	3323	3	Forest Biometrics	sophomore
ENR	333	3333	3	Silviculture	freshman, sophomore, junior, senior
ENR	350.01	3335.01	2	Introduction to Wildland Fire Management	freshman, sophomore, junior, senior
ENR	350.02	3335.02	1	Wildland Fire Management Laboratory	freshman, sophomore, junior, senior
ENR	3XX	3400	3	Psychology of Environmental Problems	Freshman, Sophomore, Junior
ENR	347	3470	3	Religion and Environmental Values in America	sophomore, junior
ENR/RS	3xy	3500	3	Community, Environment and Development	freshman, sophomore, junior, senior
WS/ENR	3xx	3530	3	Women, Environment and Development	freshman, sophomore, junior, senior
RURLSOC	378	3580	3	Social Groups in Developing Societies	freshman, sophomore, junior, senior

GE, Arts and Humanities, Cultures and Ideas



21 of 41  
Full SENR semester course  
list, including courses  
required for SENR  
programs and all elective  
courses

ENR	340	3600	2	Management of Public Lands	sophomore, junior
ENR	311	3611	2	Foundations for Environmental Communications, Education and Interpretation	Soph,Junior,Senior
ENR	324.02	3700	2	Introduction to Spatial Information for Environment and Natural Resources	sophomore, junior, senior
ENR	324.01	3750	3	Applied Remote Sensing for Environment and Natural Resources	junior, senior
ENR	400	4000	3	Environmental and Natural Resources Policy	sophomore, junior, senior
ENR	689	4191	2	Professional Practice in Environment and Natural Resources	freshman, sophomore, junior, senior
ENR	693	4193	1 to 3	Individual Studies in Environment and Natural Resources	freshman, sophomore, junior, senior
ENR	694/494	4194	1 to 3	Group Studies	freshman, sophomore, junior, senior, masters, doctoral, professional

					freshman, sophomore, junior, senior, masters, doctoral, professional
ENR	694	4194	1 to 3	Group Studies	junior, senior
ENR	442	4260	3	Soil Resource Management Sustainable Forest Products	junior, senior
ENR	432	4320	3	Zoo Science and Management	junior, senior
ENR	415	4360	2		sophomore, junior, senior
ENR	694	4400	3	Law and Legal Process	Freshman, Sophomore,
RURLSOC	542	4500	3	Leadership and Community Development	Junior and Senior
ENR	597	4597	3	Contemporary Issues in Environment and Natural Resources	junior, senior, masters, doctoral, professional
ENR	510	4610	3	Natural History of Ohio Environmental Interpretation and Visitor Services	freshman, sophomore, junior, senior, graduate
ENR	410	4611	3	Environment and Natural Resources Law Enforcement	Soph, Junior, Senior
ENR	448	4648	3		sophomore, juni or, senior
ENR	693	4683	1 to 3	Undergraduate Research	Soph, Junior, Senior
ENR	683H	4683H	3	Honors Projects	junior, senior

23 of 41  
Full SENR semester course  
list, including courses  
required for SENR  
programs and all elective  
courses

ENR	606.01	4900.01	3	Environment and Natural Resources Management	Senior
ENR	606.02	4900.02	3	Environment and Natural Resources Management for Forestry Fisheries and Wildlife	junior, senior junior, senior, masters, doctoral, professional
ENR	601	5210	3	Evaluation of Environmental Impact	junior, senior, masters, doctoral, professional
ENR	602	5211	3	International Environmental Impact Assessment	junior, senior, masters, doctoral, professional
ENR	656	5220	2	Ecosystems of the World: Temperate, Boreal and High Latitude Ecosystems	senior, masters, doctoral, professional junior, senior, masters, doctoral, professional
ENR	618	5222	3	Ecological Engineering and Ecosystem Restoration	junior, senior, masters, doctoral, professional
ENR	760	5225	3	Ecosystem Modeling	senior, masters, doctoral, professional
ENR	894	5240	2	Environmental Molecular Sciences	senior, masters, doctoral
ENR	725.01	5250.01	3	Wetland Ecology and Restoration	senior, masters, doctoral, professional

ENR	725.02	5250.02	1	Wetland Field Laboratory	senior, masters, doctoral, professional	
ENR	650	5260	3	Soil Landscapes: Morphology, Genesis and Classification	junior, senior, masters, doctoral	
ENR	655/671	5261	3	Environmental Soil Physics	senior, masters, doctoral, professional Junior, senior, masters, doctoral	671 and 655 are absorbed into 5261
ENR	660	5262	3	Soil Chemical Processes and Environmental Quality	professional junior, senior, masters, doctoral	
ENR	665	5263	3	Biology of Soil Ecosystems	junior, senior, doctoral	
ENR	720	5265	2	Characterization of Soil in the Field and Laboratory: Sampling	masters, doctoral, professional junior, senior, masters, doctoral, professional	
ENR	740	5266	3	Field Soil Investigation: Soil Chemistry, Fertility and Biology	masters, doctoral, professional	
ENR	580	5270	3	Soil Fertility	Juniors, Seniors, Masters	"and fertilizers" used to be part of the title

25 of 41  
 Full SENR semester course  
 list, including courses  
 required for SENR  
 programs and all elective  
 courses

ENR	630	5271	3	Soils of Forest Ecosystems	Juniors, Seniors, Masters
ENR	540	5272	3	Urban and Sports Turf Soils	junior, senior, graduate
ENR	675	5273	3	Environmental Fate and Impact of Contaminants in Soil and Water	Junior, senior, masters, doctoral, professional
ENR	730	5274	2	Computer Simulation of Soil Hydrological and Biogeochemical Processes	junior, senior, masters, doctoral, professional
ENR	xxx	5279	3	Urban Soil and Ecosystem Services: Assessment and Restoration	junior, senior, masters, doctoral, professional
ENR	622	5280	4	Stream Ecology	sophomore, junior, senior, masters, doctoral, professional
ENR	635	5320	3	Forest Management	seniors, masters, doctoral, professional
ENR	631	5322	3	Arboriculture	seniors, masters, doctoral, professional

26 of 41  
Full SENR semester course list, including courses required for SENR programs and all elective courses

ENR	736	5325	3	Public Forest and Lands Policy	junior, senior, masters, doctoral, professional
ENR	734	5340	3	Forest Ecosystem Management	Senior, masters, doctoral, professional sophomore, junior, senior, masters,
ENR	620	5342	3	Principles of Fisheries Ecology and Management	doctoral, professional sophomore, junior, senior, masters, doctoral,
ENR	626	5345	4	Methods in Aquatic Ecology	professional sophomore, junior, senior, masters,
ENR	627	5350.01	3	Taxonomy and Behavior of Aquatic Invertebrates	doctoral, professional sophomore, junior, senior, masters,
ENR	627x	5350.02	3	Taxonomy and Behavior of Fishes	doctoral, professional
ENR	628	5355	3	Aquaculture	junior, senior, masters, doctoral
ENR	623	5360	3	Principles of Wildlife Ecology and Management	ranks 3+
ENR	662	5362	3	Wildlife Ecology Methods	junior

27 of 41  
Full SENR semester course  
list, including courses  
required for SENR  
programs and all elective  
courses

ENR	624A	5364.01	3	Mammalian Wildlife Biology and Management	junior or senior
ENR	624B	5364.02	3	Avian Wildlife Biology and Management	junior or senior
ENR	625	5370	2	Management of Wildlife Habitat	junior or senior
ENR	629	5375	2	Ecology and Management of Wetlands Birds	senior, masters, doctoral, professional junior, senior,
ENR	648H	5448H	3	Tragedy of the Commons? Environment, Government and Collective Action	masters, doctoral, professional doctoral,master s, professional,se
RURLSOC	662	5500	3	Diffusion of Innovations	nior,junior Freshman, Sophomore,
RURLSOC	622	5520	3	Amish Society	Junior, Senior masters,
RURLSOC	733	5530	3	Sociology of Agriculture and Food Systems	doctoral, professional junior, senior,
RURLSOC	744	5540	3	Population, Place and Environment	masters, doctoral, professional seniors, masters,
ENR	756	5560	2	Rehabilitation/Restoration of Ecosystems	doctoral, professional

was: Rural  
Sociology  
Demography

28 of 41  
Full SENR semester course  
list, including courses  
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programs and all elective  
courses

RURLSOC	678	5570	3	Women in Rural Society	doctoral, masters, professional, junior, senior, sophomore	title used to include: of Domestic Development
RURLSOC	688	5580	3	Social Impact Assessment	junior, senior, masters, doctoral	
ENR	611	5611	2	Great Lakes Education Workshop	junior, senior, masters, doctoral, professional	was "I", and "II" not converted
ENR	614	5614	2	Marine and Aquatic Education	junior, senior, masters, doctoral, professional	
ENR	640	5640	4	Natural Resources Program Planning	junior, senior, masters	
ENR	642	5642	3	Environment and Natural Resources Administration	Junior, Senior, Masters	
ENR	649	5649	3	Wildlife Conservation Policy	junior, senior, masters, doctoral, professional	
ENR	690	5690	2	Workshop in Environmental Education	junior, senior, masters, doctoral, professional	



ENR	799	5699	1	Current Topics in Environment and Engineering	freshman, sophomore, junior, senior, masters, doctoral, professional	
ENR	697	5797	1 to 15	Study at a Foreign Institution	junior, senior, masters, doctoral, professional	was Long-term Study Abroad
RURLSOC	697	5797	1 to 15	Study at a Foreign Institution	junior, senior, masters, doctoral, professional	
ENR	800	6000	2	Research in Environment and Natural Resources	Masters, doctoral	
ENR	693	6193	1 to 3	Individual Studies in Environment and Natural Resources	masters, doctoral, professional	
ENR	651	6451	3	Water Law	senior, masters, doctoral, professional	was Water Resources Institutions and Policies
RURLSOC	666	6500	3	Rural Poverty	doctoral, professional, masters, senior, junior	title was Sociological Theory Applied to Domestic Development
RURLSOC	788	6550	3	The Change Agent	masters, doctoral, professional	

30 of 41  
Full SENR semester course  
list, including courses  
required for SENR  
programs and all elective  
courses

ENR	761	6610	2	Soil and Environmental Biochemistry	masters, doctoral, professional (junior, senior possible)
ENR	731	7310	2	Principles and Applications of Forest Ecosystem Restoration	Masters, doctoral
ENR	733	7333	3	Successional Dynamics of Forests	masters, doctoral Masters, Doctoral, some seniors
ENR	738	7380	3	Climate and Society	seniors
ENR	7XX	7400	2	Communicating Environmental Risk	Masters, Doctoral, Professional
ENR	750	7500	3	Resolving Social Conflict	masters, doctoral, professional
ENR	752	7520	3	Environmental Science and Law	senior, masters, doctoral, professional seniors, masters, doctoral
ENR	753	7530	3	Soil Mineralogy	senior, masters, doctoral
RURLSOC	788	7542	3	The Change Agent: Sociological Theory Applied to Domestic Development	Masters, Doctoral, Professional

31 of 41  
Full SENR semester course list, including courses required for SENR programs and all elective courses

RURLSOC	888	7550	3	Rural Community Development in Theory and Practice	masters, doctoral, professional	was: Social Action in Community Development
RURLSOC	766	7560	3	Environmental Sociology	Masters, doctoral, professional seniors,	
RURLSOC	742	7600	3	Concepts and Theories in Rural Sociology	masters, doctoral	
ENR	770	7700	3	Watershed Ecology and Restoration	masters, doctoral	
ENR	893	7888	1 to 3	MENR Project	masters	
ENR	812	8120	2	Spatial Methods in Environment and Natural Resources	masters, doctoral, professional	
ENR	815	8150	3	Advanced Environment, Risk and Decision Making	Masters, Doctoral, Professional	
ENR	835	8350	3	Ecosystem Management Policy	masters, doctoral, professional	
ENR	840	8400	2	Theoretical Foundations in the Human Dimensions of Ecosystem Management	masters, doctoral, professional	was: Rural Sociology of Development and Social Change
RURLSOC	892	8500	3	Development Sociology in Theory and Practice	masters, doctoral, professional	

32 of 41  
Full SENR semester course  
list, including courses  
required for SENR  
programs and all elective  
courses

ENR	851	8510	3	Research Design for Environmental Social Sciences	masters, doctoral Masters, Doctoral,
ENR	871	8710	3	Soils and Climate Change Quantitative Methods for Environment and Natural Resources	Professional masters, doctoral,
ENR	822	8780	3	Research Paradigms	professional masters, doctoral
ENR	985	8785	3	Fish and Wildlife Management Seminar	professional masters, doctoral
ENR	899.01	8890.01	1 to 12	Watershed Ecology and Management Seminar	professional masters, doctoral
ENR	899.02	8890.02	1 to 12	Environmental Science Seminar	professional masters, doctoral
ENR	899.03	8890.03	1 to 12	Soil Science Seminar	professional masters, doctoral
ENR	899.04	8890.04	1 to 12	Forest Science and Management Seminar	professional masters, doctoral
ENR	899.05	8890.05	1 to 12		professional

title was:  
Human  
Dimensions  
Theory  
Building in  
Natural  
Resources

33 of 41  
Full SENR semester course list, including courses required for SENR programs and all elective courses

ENR	899.06	8890.06	1 to 12	Environmental Policy and Decision-Making Seminar	masters, doctoral, professional
ENR	899.07	8890.07	1 to 12	Environmental Education and Communication Seminar	masters, doctoral, professional
ENR	899.08	8890.08	1 to 12	Parks and Recreation Management Seminar	masters, doctoral, professional
ENR	xxx	8890.09	1 to 12	Rural Sociology Seminar	professional
ENR	897	8897	1	Research Proposal Symposium	graduate masters,
ENR	880	8980	1	Environment and Natural Resources Seminar	doctoral, professional
ENR	999	8998	3 to 15	Research	Masters, doctoral

Unit	Qtr # plus suffix	Semester #	Sem units	1c: Course Title Long	rank
ENR	100H	1000H	1	Environment and Natural Resources Survey	honors freshman
ENR	683H	4683H	3	Honors Projects	junior, senior
ENR	590H	4890H	1	Honors Colloquium	Junior
ENR	648H	5448H	3	Tragedy of the Commons? Environment, Government and Collective Action	junior, senior, masters, doctoral, professional
ENR	119.01	xx (1000)	1	Survey of Park and Policy Careers	freshman, sophomore, junior, senior

119 is merged w 100 as 1000

34 of 41  
 Full SENR semester course  
 list, including courses  
 required for SENR  
 programs and all elective  
 courses

ENR	119.02	xx (1000)	1	Professional Survey of Forestry, Fisheries and Wildlife	freshman, sophomore freshman,	119 is merged w 100 as 1000
ENR	119.03	xx (1000)	1	Professional Survey of Environmental Science	sophomore, junior, senior	119 is merged w 100 as 1000

## **School of Environment and Natural Resources** **Transition Plan for ENR Majors**

This transition plan covers all existing ENR undergraduate majors, including:

**Environmental Policy and Decision Making Major** (*modified in title (was Environmental Policy and Management) and three specializations added*)

**Environmental Science Major** (*modified from four to five specializations*)

**Forestry, Fisheries, and Wildlife Major** (*converted as semester equivalent*)

**Natural Resource Management Major** (*modified in title (was Parks, Recreation & Tourism) and three specializations added*)

Students in all ENR majors may complete the major as it was offered in quarters, simply by completing the semester equivalents of the courses they would have completed to meet the requirements of the major under quarters. Each major includes a sufficient selection of converting courses to make completion possible; any courses not converted to semesters will simply be unavailable as options starting in Autumn of 2012. There will be no attempt to create bridge courses.

Current students in ENR majors will be contacted before the start of the Autumn 2011 quarter with a list of available semester courses to complete their major; any courses that will be terminated in semesters will be highlighted with encouragement for interested students to take them in 2011-2012.

Students finishing their degrees under semesters in the **Environmental Policy and Decision Making** Major and the **Natural Resources Management** Major will have the option of either completing their major with no specialization as these degrees were offered in quarters, or if their course of study allows them to do so, they may complete their degree under one of the three specializations now specified in these two majors. Students in the **Environmental Science** Major will have the option of either completing their current specialization with semester equivalent courses, or changing their specialization to one of the re-named specializations offered under semesters. Students completing the **Forestry, Fisheries, and Wildlife** Major (FFW) will see no change in their specialization options, and will simply complete their specialization with semester equivalent versions of courses, as suggested in the four year plan above and as guided by the FFW semester advising sheets above.

## SENR Semester Programs: Assessment Plans

SENR programs do not have assessment plans already on file with the University. The following selections below have been indicated in the online program proposal system to describe the preliminary assessment plans for SENR programs. Full plans for undergraduate and graduate programs will be completed for submission to the University in September of 2011, in collaboration with Dr. Warren Flood and his work to finalize assessment plans in the College of Food, Agricultural and Environmental Sciences. An important basis for assessment is the set of program learning goals detailed in the different curriculum maps for each SENR undergraduate major and several SENR graduate programs. Details have been added below to specify the measures currently used to assess SENR programs. Different assessment methods are used across the range of SENR degree programs, as indicated below,

### **Direct Methods of Assessment:**

#### *Undergraduate:*

##### **Standardized tests:**

-Certification or licensure examinations for FFW students: *The Wildlife Society, American Fisheries Society, and Society of American Foresters certifications are available to students completing various specializations in the FFW major.*

##### **Classroom Assignments:**

-Other classroom assignment methods: *Current SENR students must complete ENR 567 (3<sup>rd</sup> writing course), which evaluates written and oral communication skills. Portions of what is currently assessed in ENR 567 will be shifted in semesters to ENR 2367 (a 2<sup>nd</sup> writing course), ENR 4900.01/4900.02 (the ENR capstone courses, with integrative projects and assignments, written and oral, to assess students' mastery of a range of ENR knowledge and skills), and to an additional writing assessment component that will be added to an upper level required course in each major that includes a significant writing component (e.g., 4900.01, 662/5362, 642/5642). In this latter case, writing assignments in these upper level courses will be graded both by the content instructor and by a qualified writing instructor designated by the School, to assure that students achieve a satisfactory level of writing mastery.*

##### **Evaluation of a body of work produced by the student:**

-Capstone course reports, papers, or presentations: *ENR 606.01/4900.01 and 606.02/4900.02 are the SENR capstone courses, which require students to demonstrate an integrative knowledge and proficiency following on their environment and natural resource education and training in SENR.*



Graduate:

**Direct assessment methods specifically applicable to graduate programs:**

- Candidacy exams: *PhD students must complete a written and oral candidacy exam prior to proceeding with their dissertation research.*
- Research proposals written: *PhD students must complete a research proposal approved by their committee to proceed with dissertation research; MS students enroll in a research course (800/8998) and a research proposal symposium (897/8897) to develop and present their thesis research proposal; MENR students must gain approval of their project topic by their advisory committee and the director of graduate studies, and their independent project and program of study must also be approved by their committee.*
- Thesis/dissertation oral defense and/or other oral presentation: *MS and PhD students must pass an oral defense, and also give a public thesis presentation (PhD students present their research in the SENR seminar series); MENR students complete an oral Final Master's Examination.*
- Thesis/dissertation (written): *MS and PhD students complete written theses and dissertations; MENR students complete a written Final Master's Examination.*

**Indirect Methods of Assessment:**

Undergraduate:

**Surveys and Interviews:**

- Student survey: *SENR social science faculty have created a pre- and post-test survey instrument for SENR students, which students complete upon entering SENR and then again in their final semester. The survey evaluates environmental learning, attitudes, career interests, and other measures of student progress and experiences linked to SENR program objectives, and these results inform program vision and revision.*
- Alumni survey: *SENR social science faculty periodically complete phone interviews with SENR alumni to examine their long-term learning, job success, and retrospective views of SENR programs; these results inform program vision and revision.*
- Student Evaluation of Instruction: *SENR instructors use SEI's to evaluate their own teaching; SENR administration uses SEI's in part to gauge instructor success.*
- Student interviews or focus groups: *SENR director and other administrators conduct exit interviews with a sample of graduating SENR students to evaluate their success and satisfaction with SENR programs. These interviews inform shaping and direction of current and future programs.*

Graduate:

**Additional types of indirect evidence:**

-Job or post-baccalaureate education placement: *SENR administrators keep track of job placement of graduates as a measure of program success.*

**How the program uses or will use the evaluation data to make evidence-based improvements to the program periodically (select all that apply):**

-Meet with students directly to discuss their performance: *Meetings with students occur throughout the SENR curriculum, particularly in relation to term projects, capstone projects, and graduate theses and projects.*

-Analyze and discuss trends with unit's faculty: *results of surveys and exit interviews are shared in faculty meetings, and have been used extensively in preparing the SENR semester curriculum; ongoing review of the semester curriculum, particularly during 2012-2014, with continue this process.*

-Analyze and report to college/school: *survey results have been reported to the College and across the university.*

-Make improvements in curricular requirements: *survey and interview results were used extensively to shape the semester curriculum, and will be similarly employed to shape revisions to the semester curriculum in coming years.*

-Make improvements in course content: *information from meetings with students, SEI's, surveys and interviews are all used to improve course content; course revisions and improvements were a particular focus of the curriculum planning process for the Q2S conversion, and will remain a focus particularly during 2012-2014 as the semester curriculum is refined and optimized.*

-Periodically confirm that current curriculum and courses are facilitating student attainment of program goals: *survey results are particularly useful as evidence of success in this area.*

Course	Critical Thinking/ Problem Solving		Application of Theoretical Concepts	Oral Communication	Written/Graphic Comm	Understand natural systems		Understand human systems							Understand coupled systems		Demonstrate professional competency		
	Identify the varied and conflicting perspectives that guide choices about ENR issues.	Synthesize and distill key components of information streams relative to ENR issues.	Apply class concepts to better understand and address ENR issues.	Demonstrate successful formal presentation and informal discussion skills.	Demonstrate technical, narrative and graphic communication skills appropriate for target audiences.	Understand the structure and function of biological and physical systems.	Demonstrate competency in a specific natural resources content area (e.g., soil, water, fw).	Understand the role of individuals in human-natural systems.	Apply knowledge of individual behavior and decision making to ENR issues.	Understand the structure, function and diversity of communities in human-natural systems.	Apply knowledge of communities to ENR issues.	Understand structure and function of polities in human-natural systems.	Apply knowledge of environmental/natural resource policy areas.	Understand the different missions of ENR governmental and non-governmental organizations.	Understand international dimensions/globalization of bio-physical and human systems.	Understand the interaction among components in bio-physical and human systems.	Demonstrate ability to plan and evaluate current and future ENR programs.	Understand daily operation of an org (e.g., budgeting, HR, purchasing)	Know how to make decisions that meet organizational objectives.
RS 105 Intro to RS																			
ENR 119.01 Professional Survey in ENR				I	I														
ENR 155 Energy and the Environment	I/A	I/A	I/A			I	I	I/A	I/A										
ENR 203 Society and Natural Resources	I	I	A	I/R	I/R			I	I	I/R	I/R	I	I			I/A	I/A	R	
ENR 311 Foundations for EE, Comm, & Interp (Rasche)	I	I	I/A	I/A	I/A														
ENR 340 Concepts of Parks and Recreation	R	I	A		I			I	I		I	I						I	
ENR 347 Religion and Environmental Values in America	R		R	R	R			R	R	R	R	R							
ENR 367 Making and Meaning of American Landscape (Simpson)	I	I/R	I	I/R/A	R/A			I	I	I	I	I						I	
RS 378 Social Groups in Developing Societies	I	I	I	R	I	I	I	I	I	I	I	I						I	
ENR 400 Environmental Policy	I		A	R								I	A						
ENR 410 Env. Interpretation and Visitor Services (Rasche)	I	I	I/R/A	I/R/A	I/R/A			I/R/A	I/R/A	I/R/A	I/R/A					I/R/A	I	I/R/A	
ENR 448 Law Enforcement (Giese)																			
ENR 531 Env Economics (Partridge)																			
RS 542 Leadership and Comm. Development																			
ENR 567 Communicating ENR Information (Hitzhusen)	R	R/A	R/A	R/A	R/A		R												
ENR 597 Issues in Contemporary World																			
ENR 601 Environ Impact Assessment (Fineran)	R/A	R/A	I/A	R	R	R/A	A	R/A	I/A	R/A	R/A	I/A	I/A	I/A			R/A	R/A	
ENR 602 International EIA (Fineran)	R/A	R/A	I/A	R	R	A	A	R/A	I/A	R/A	R/A	I/A	I/A	I/A	I/A			R/A	
ENR 606 Senior Capstone (Fineran 606.01)	R/A	R/A	R/A	R	R	A	A	R/A	R/A	R/A	R/A	I/A	I/A	I/A				R/A	
ENR 615 Environ Risk & Decision Making	A	A	A	R	R			I	A									R	
ENR 640/641 Nat Res Planning	A	A	A	A	A							A	A	A			A	A	
ENR 642 NatRes Admin (Peck)	R/A	R/A	A	A	R		R/A	R/A	A	R	R	A	A	A			A	A	
ENR 648 Tragedy of the Commons			A	R				I	A	I		I	A				A	A	
ENR 649 Wildlife Conservation Policy	R	R		R	R		A					A	A	R					
ENR 651 Water Institutions and Policy																			
RS 662 Diffusion of Innovation	R/A	R/A	R/A	R	R	I	I	R/A	R/A	R/A	R/A	I/A	I/A			R/A	R/A		
ENR 684/689 Internship																			
ENR 736 Public Forest Policy	R		A	R								R	A	R					
ENR 752 Env Science and Law																			

RATINGS  
 Introduced (I): Early introduction of topic/skill  
 Reinforced (R): Advanced coverage of topic/use of skills building on earlier introductions  
 Applied (A): Application of knowledge/skills to real-world problems/experiences

## Responses to

### *Working Group Two Questions for June 1 subcommittee meeting*

Below are responses regarding Q2S proposals for the SENR major:

#### **EPDM-BS**

(FFW-BS, ES-BS, and NRM-BS not included here)

Many of the questions below have been clarified/resolved by the attached revised Semester Advising Sheets for each major, including detailed advising sheets for each specialization in each major (specialization sheets were missing from the previous submission). Four-year transition plans for each major have also been added for each major, attached. These and all other responses and revisions are detailed below.

Questions about any of the following can be directed to Greg Hitzhusen (hitzhusen.3@osu.edu).

#### **Environment Policy and Decision Making—BS**

1. *Can you provide a rationale for why this major does not require a minor, since that seems to be a general guideline for FAES major programs?* SENR students are not required to complete a minor. SENR has never adopted the College's requirement of a minor.
2. *The learning goals seem a bit vague. Can you expand them a bit and link them explicitly to the assessment section?* All SENR learning goals across our undergraduate majors are in the process of revision in concert with SENR's Assessment Plans, and will be complete later this summer. This revision process is being done in consultation with Alexis Collier's office through Dr. Warren Flood, and we anticipate an improved and unified set of program goals and outcomes measures for all SENR undergraduate majors.
3. *The choices on the GE advising sheet seem a bit unclear. Do students choose between Rural Soc and Soc? Or Rural Soc and any GE in that category?* We have typically recommended the Rural Soc course, but students can take any GE course in that category, as per standard GE practice.
4. *Can you provide 4 year transition plans that show what the program would be like for students who enter during quarters and exit under semesters?* Plans are attached.
5. *On page 27, are the 18 hours listed part of the specializations? The language at the top of the page is confusing and does not seem to correspond to the advising sheet.* This refers to the semester advising sheet. These 18 hours are part of the **core** required for all students in the major (so are core, not specialization requirements), but require courses distributed across the specializations to provide breadth. This gives students flexibility to

concentrate even more in their specialization area, or gain complementary background in other specialization areas. The advising sheet has been revised for clarity.

6. *Can you define what “I”, “R” and “A” refer to on your curriculum map?* It seems the key tends not to print on the same page as the map itself when this is printed out, so apologies for this format challenge, but as it says in the excel file at the bottom of sheet 1: Introduced (I): Early introduction of topic/skill; Reinforced (R): Advanced coverage of topic/use of skills building on earlier introductions; Applied (A): Application of knowledge/skills to real-world problems/experiences
7. *You provide a brief rationale for the new specializations?* Yes, this has been added to the rationale statement (EPDMrationaleFINAL.doc), **attached**.
8. *The chart beginning on page 45 is very difficult to read because it is spread across multiple pages. Is there a way to reformat that so that reviewers can see it better?* This refers to the curriculum map, which seems a bit large to fit readably onto one page, but a revised version is attached that formats the chart in landscape view on a single page (EPDMcmapPDF1pg.pdf). The document does not lend itself to browsing in hard copy, and is much more readable in its electronic excel format.