## **Environmental Science Major Advisement Form (2016-2017)**

Name	Year of Grad	Adviser	_	
The Environmental Science Major consists of Science Courses, and Environmental Science the student. What follows are recommended from the list below at Westfield State University	ce Concentration Electives, c d courses that fulfill the major	chosen depending on advising and the r. All students must take at least 21 c	interests of	
Requirement for graduation with ENVS M	ajor: GPA of 2.7 or greater			
Environmental Science Foundation Cours  ( ) ENVS0105 Natural History and Field Te ( ) ENVS0180 Environmental Science First ( ) MATH0123 Mathematical Methods in the ( ) ENVS0101 Principles of Environmental ( ) ENVS0225 Natural Resources Cons. Ar ( ) ENVS0233 Environmental Legislation ( ) ENVS0330 Environmental Data Analysis ( ) ENVS0240 Writing for Environmental Sc ( ) ENVS0390 Senior Seminar	chniques Year Seminar e Natural Sciences Science or GARP0106 Env. nd Mgmt. or BIOL 202 Conse s or GARP0246 Quantitative	ervation	Biology	
	OR GEOL0101 Ph			
Areas of Study (12-16 Credits. Choose one from each category, plus one additional optional course)				
( ) ENVS0209 Wildlife Biology ( ) ENVS0220 Surf. Gnd. Water ( ) ENVS0255 Env. Soil Science ( ) ENVS0300 Wetland Analysis ( ) ENVS0309 Wildlife Cons ( ) BIOL0201 Ecology ( ) BIOL0202 Conservation ( ) BIOL0208 Marine Biology] ( ) BIOL0211 Plant Biology ( ) BIOL0216 Flora of Mass	Human  ) ENVS0215 Env. Ed and ) ENVS0238 Env. Impact A ) ENVS0251 Water Resou ) ENVS0352 Green Sus. C ) GARP0215 Unjust City ) GARP0217 Global Issues ) GARP0219 Land Use & F ) GARP0222 Site Plan. Stu ) GARP 0225 Legal Issues ) GARP0245 Sustain. Ener ) GARP0250 Political Ecolo ) GARP0325 Food Sys Pla	An ( ) ENVS0236 Env. Ar  Irces ( ) ENVS0311 Env. Mo  Cities ( ) BIOL0204 GIS Na	nal II conitoring tt. Sci. e Sens iIS tt. Sci. Methods ol & Anal IS hem I	
300 Level Course Requirement (6-8 Creditable These may simultaneously fulfill other red ( ) ENVS0300 Wetland Analysis and Plann ( ) ENVS0309 Wildlife Conservation and M ( ) ENVS0311 Env. Monitoring and Analysi ( ) ENVS0330 Env. Data Analysis ( ) ENVS0352 Planning Green Sustainable	quirements in the major) ing ( ) ENV lanagement ( ) ENV s ( ) GAI ( ) BIO	VS0350 Internship (Note: 3.0 GPA over VS0399 Independent Research RP0344 Adv. GIS OL0325 Ecosystems OL0340 Forest Ecology (lecture or me	required)	

## **Environmental Science Minors**

## **Wildlife Conservation Minor**

The minor in Wildlife Conservation is designed to allow students who are interested in Wildlife to gain the skills and knowledge necessary to work professionally as wildlife scientists or technicians, to prepare them for graduate study in wildlife or organismal ecology, and to guide their course selection as part of the ENVS major. The minor requires 20-21 credits of course work including: ENVS 0105, ENVS 209, ENVS 0230 or BIOL 128 ENIVS 0225 MATH 123 or BIOL 278 AND ENIVS

## **Wetlands Analysis Minor**

The minor in Wetlands Analysis is designed to allow students who are interested in Wetlands to gain the skills and knowledge necessary to work professionally as wetland scientists or to augment other interests they have. The minor requires 20-22 credits of course work including: ENVS 0105; ENVS 300; GARP 0244 or BIOL 0204; and at least three of ENVS 210, ENVS 0215, ENVS 0220, ENVS 0251, and BIOL 0216.

0309.	270, AND LINVS			
Concentrations  The ENVIRONMENTAL SCIENCE DEPARTMENT recommends that you design a concentration that fits your career goals. These are suggestions of possible informal concentrations:				
Water Resources (quality/quantity) Limited water resources will be the most contested of all resources in the future. Graduates often work for state and local government and organizations such as Springfield	Environmental Planning Graduates with environmental planning skills often work for state and local government or nonprofit agencies.	Environmental Activism Environmental activists combine an understanding of environmental issues with knowledge of the complexities of		
Water and Sewer Commission.  ( ) ENVS 0251 Water Resources ( ) BIOL 0219 Aquatic Biology ( ) BIOL 0208 Marine Biology ( ) ENVS 02XX Surf. & GW Hydrol ( ) GARP 0244 Intro to GIS	( ) ENVS major ( ) Regional Planning Major  Environmental Policy From environmental law to working in government or environmental	human institutions in order to effect positive change.  ( ) BIOL 0233 Env. Leg  ( ) ENVS 0215 Env. Ed & Comm  ( ) GARP 0215 Unjust City  ( ) GARP0245 Sustain. Energy		
( ) Internship  Environmental Education ( ) ENVS 0225 Nat. Resource Mgmt	consulting, understanding the legal aspects of solving environmental issues is critical.  ( ) BIOL 0233 Env. Legislation	( ) GARP0250 Political Ecology ( ) GARP0325 Food Sys. Planning ( ) GARP/ENVS 0236 Env. Anal. II ( ) Applied Ind. Study or internship		
<ul> <li>( ) GARP 0230 Meteorology</li> <li>( ) GARP 0345 Green Sust. Cities</li> <li>( ) GARP/ENVS 0245 Sust. Energy</li> <li>( ) ENVS 0238 Env. Impact Anal.</li> <li>( ) BIOL 0233 Env. Leg</li> <li>( ) ENVS 0215 Env. Ed &amp; Comm</li> </ul>	<ul> <li>( ) GARP 0225 Legal Issues Planning</li> <li>( ) GARP 0215 The Unjust City</li> <li>( ) ENVS 0238 Impact Analysis</li> <li>( ) ENVS 0215 Env. Ed &amp; Comm</li> <li>( ) Political science courses or minor</li> </ul>	Climate Change Climate Change is the most pressing environmental issue of the 21st century and a global reflection of human impact on the environment.		
Geographic Information Systems (GIS) GIS is one of the most important tools used in environmental science and an essential skill you need in the professional world.  ( ) GIS Minor and/or GIS Cert. ( ) GARP 0244, 0344, & 0346	Environmental Chemistry Graduates with expertise in Chemistry are in high demand at Analytical Labs ( ) CHEM 0109 ( ) CHEM 0111 ( ) ENVS 0210 Env Chemistry ( ) ENVS 0311 Env. Monitoring ( ) Internship at Analytical Lab ( ) Independent study, chemistry	<ul> <li>( ) GARP 0230 Meteorology</li> <li>( ) GARP 0206 Climate Change</li> <li>( ) GARP 0345 Green Sust. Cities</li> <li>( ) GARP/ENVS 0245 Sust. Energy</li> <li>( ) GARP/ENVS 0236 Env. Anal. II</li> <li>( ) ENVS 0210 Env Chemistry</li> <li>( ) ENVS 0311 Env. Monitoring</li> <li>( ) Applied Independent Study</li> </ul>		
( ) MGMT 0107 ( ) GIS Independent Study ( ) GIS Internship	Environmental Police / Ranger Conservation officers require a solid grounding in biology as well as	Env. / Wilderness Leadership (Minor) Students interested in careers as outdoor guides often minor in		
Environmental Writer Having skills of communicating about the environment will serve you in more ways than you think. You can even write about the environment as a career!  ( ) ENVS 0215 Env Ed & Comm ( ) ENVS 240 Writing for Env. Sci. ( ) ENVS Major ( ) Minor in ENGL or COMM	criminal justice and are employed by local, state, and federal natural resource agencies. ( ) ENVS 0225 ( ) ENVS 0309 ( ) BIOL 0219 ( ) BIOL 0233 ( ) CJ Minor ( ) Internship	Wilderness Leadership. ( ) ENVS 0225 Nat. Resource Mgmt ( ) MOVP 0199 Wilderness Exp. ( ) MOVP 0245 Adv. Challenge Inst. ( ) MOVP0250 Tech. Wild. Leaders. ( ) MOVP XXX Wild. First Resp. ( ) EDUC 0312 Outdoor Education ( ) Courses to complete WL Minor		