Environmental Science Major Advisement Form (2019-2020)

Name	Year of Grad	Adviser		
The Environmental Science Major consists of 54-60 credits, depending on advising and the interests of the student. All students must take at least 21 credit hours from the list below at Westfield State University.				
Requirement for graduation with ENVS Major: GPA of 2.7 or greater				
Environmental Science Foundation Coul () ENVS0105 Natural History and Field 7 () ENVS0180 Environmental Science Fir () MATH0123 Mathematical Methods in t () ENVS0101 Principles of Environmental () ENVS0225 Natural Resources Cons. () ENVS0233 Environmental Legislation () ENVS0330 Environmental Data Analy () ENVS0340 Writing for Environmental () ENVS0390 Senior Seminar	Techniques rst Year Seminar the Natural Sciences al Science OR () BIOL0102 And Mgmt. OR () BIOL0202 OR GARP 0225 Legal Issue rsis OR () GARP0246 Quantit	2 Conservation e in Zoning and Planning itative Methods		
Required Lab Science Classes (15-16 Classes) () GEOL0101 Physical Geolog			
Electives - Choose one from each category, plus one additional course (12 - 16 credits)				
Natural () ENVS0209 Wildlife Biology () ENVS 0217 Restoration Ecol. () ENVS0220 Surf. & Gndwater () ENVS0255 Soil Science () ENVS0300 Wetland Analysis () ENVS0309 Wildlife Cons () BIOL0201 Ecology () BIOL0202 Conservation () BIOL0208 Marine Biology () BIOL0211 Plant Biology () BIOL0216 Flora of Mass () BIOL0219 Aquatic Biology () BIOL0223 Microbiology () BIOL0334 Animal Behavior () BIOL0340 Forest Ecology () GARP0206 Climate Change () GARP0230 Meteorology () GARP0331 Sev.& Un Weather	Human () ENVS0215 Env. Ed and () ENVS0238 Env. Impact () ENVS0251 Water Resou () ENVS0352 Green Sus. 0 () GARP0216 The Unjust O () GARP0217 Global Issue () GARP0219 Land Use & () GARP0222 Site Plan. St () GARP 0225 Legal Issues () GARP0245 Sustain. Ene () GARP0250 Political Ecol () GARP0325 Food Sys Pla	t Anal. () ENVS0236 Env. Anal II burces () ENVS0311 Env. Monitor Cities () ENVS0317 Ecol. Restor City () BIOL0204 GIS Nat. Sci es () GARP0243 Remote Ser Res. () GARP0244 Intro. GIS citudio () GARP0246 Quant. Meth es () GARP0340 Data Col & A ergy () GARP0344 Adv. GIS clogy () CHEM0201 Org. Chem	ring ratior i. ns nods Anal	
300 Level Course Requirement - You missimultaneously fulfill other requirement () ENVS0300 Wetland Analysis and Plan () ENVS0309 Wildlife Conservation and () ENVS0311 Env. Monitoring and Analy () ENVS0330 Env. Data Analysis () ENVS0352 Planning Green Sustainable () ENVS0350 Internship (Note: 3.0 GPA)	s in the major (6-8 credits) nning () EN Management () GA rsis () BIC	NVS0399 Independent Research ARP0344 Adv. GIS OL0325 Ecosystems OL0340 Forest Ecology NVS0317 Ecological Restoration	a <u>y</u>	

Environmental Science Minors

Wildlife Conservation Minor

() ENVS 0209 Wildlife Biology

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 a total of 20-21 hours of coursework. () ENVS 0105 Natural History and Field Techniques

() ENVS0225 Nat. Resource Cons. and Management

() ENVS0309 Wildlife Ecology and Manager () ENVS0230 Est. Wild Pop. or BIOL0128 O () MATH0123 Math Meth Nat Sci. or BIOL02	rg, Ecol, Evol. Biol
The ENVIRONMENTAL SCIENCE DEPART These are suggestions of possible inform	
Environmental Policy From environmental law to working in government or environmental consulting, understanding the legal aspects of solving environmental issues is critical. () BIOL 0233 Env. Legislation () GARP 0225 Legal Issues Planning () GARP 0215 The Unjust City () ENVS 0238 Impact Analysis () ENVS 0215 Env. Ed & Comm () Political science courses or minor Environmental Planning Graduates with environmental planning skills often work for state and local government or nonprofit agencies. () ENVS major () Regional Planning Major Water Resources Management 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 Water and Sewer Commission. () ENVS 0251 Water Resources () BIOL 0219 Aquatic Biology () BIOL 0208 Marine Biology () ENVS 0251 Surf. & GW Hydrol () GARP 0244 Intro to GIS () Internship Environmental Chemistry Graduates with expertise in Chemistry are in high demand at Analytical Labs	Geographic Infection (GIS) GIS is one of the used in environmessential skill you professional word () GIS Minor a () GARP 0244, () GIS Indeper () GIS Indeper () GIS Internship Environmental Conservation off grounding in bio criminal justice a local, state, and resource agenci () ENVS 0225 () BIOL 0219 () CJ Minor () Internship Environmental Having skills of the environment ways than you the write about the ecareer! () ENVS 0215 () ENVS 0215 () ENVS Major () Minor in ENCENVIRONMENTAL Environmental a understanding of with knowledge in order to effective () effective (CIS)
() CHEM 0109 () CHEM 0111	() BIOL 0233 E

) ENVS 0210 Env Chemistry

) ENVS 0311 Env. Monitoring

) Internship at Analytical Lab () Independent study, chemistry

Wetlands Planning and Management Minor

There is a strong demand among consulting firms, state and federal agencies, and not-for-profit organizations for persons with knowledge and experience relevant to wetland resource management.

s of coursework. Techniques Management agement 8 Org, Ecol, Evol. Biol	() ENVS 0105 Natura () ENVS 0210 Env. C () ENVS 0300 Wetlan () ENVS0255 Environ () GARP0244 Intro. G () ENVS0220 Surf. &	GIS OR BIOL0204 GIS Nat. Sci.
L0278 Biostatistics		
ARTMENT recommends to commands to concentrations:	hat you design a conc	entration that fits your career goals.
Geographic Inform (GIS) GIS is one of the mused in environmen essential skill you n professional world. () GIS Minor and/() GARP 0244, 03-() GIS Independer () GIS Internship Environmental Pole Conservation office grounding in biology criminal justice and local, state, and fed resource agencies. () ENVS 0225 & () BIOL 0219 & B () CJ Minor () Internship Environmental Wr Having skills of company than you think write about the environment will ways than you think write about the environment will ways than you think write about the environmental Active in Environmental Active in Environmental Active in Environmental active in Garen () BIOL 0233 Environmental control of the Garen () ENVS 0215 Environmental of environmental active in order to effect po () BIOL 0233 Environmental Control of Garen () Garen 0215 Un () Garen 02250 Pol	ost important tools tal science and an eed in the or GIS Cert. 44, & 0346 at Study lice / Ranger reserved reserved as well as are employed by eral natural ENVS 0309 aloL 0233 iter anunicating about I serve you in more as you can even ronment as a control of the control of	Environmental Education () ENVS 0225 Nat. Resource Mgmt () GARP 0345 Green Sust. Cities () GARP/ENVS 0245 Sust. Energy () ENVS 0238 Env. Impact Anal. () BIOL 0233 Env. Leg () ENVS 0215 Env. Ed & Comm Climate Change Climate Change is the most pressing environmental issue of the 21st century and a global reflection of human impact on the environment. () GARP 0230 Meteorology () GARP 0206 Climate Change () GARP 0345 Green Sust. Cities () GARP/ENVS 0245 Sust. Energy () ENVS 0210 Env Chemistry () ENVS 0311 Env. Monitoring () Applied Independent Study Env. / Wilderness Leadership (Minor) Students interested in careers as outdoor guides often minor in Wilderness Leadership. () ENVS 0225 Nat. Resource Mgmt () MOVP 0199 Wilderness Exp. () MOVP 0245 Adv. Challenge Inst. () MOVP 0250 Tech. Wild. Leaders. () MOVP XXX Wild. First Resp. () EDUC 0312 Outdoor Education () Courses to complete WL Minor Ecological Restoration Understanding how to restore landscapes and communities. () ENVS 0225 Natural Resources () ENVS 0233 Environmental Leg. () ENVS 0255 Soil Science () ENVS 0317 Ecological Restoration

() GARP 0244 Intro GIS

() Applied Ind. Study or internship