

Professional Electives: suggested emphasis areas

	Credits	Offered	Term
Natural Resource Ecology (Wildlife; Forestry)			
SOE 301 Forest Plants & Ecosystems	3	F	
SOE 302 Arid Land Plants & Ecosystems	3	S	
SOE 305 Silviculture	3	F	
SOE 310 Methods in Wildlife Ecology	4	F	
SOE 318 Wildlife Genetics	3	SAYO	
SOE 411 Umnology [M]	3	F	
SOE 417 Fisheries Science and Management	3	F	
SOE 430 Introduction to Wildland Fire	3	F	
SOE 431 Wildlife Nutrition	3	S	
SOE 435 Wildlife Ecology	4	S	
SOE 441 Population Ecology & Conservation	4	F	
SOE 446 Habitat Ecology [M]	3	F	
SOE 450 Conservation Biology [M]	3	S	
SOE 461 Watershed Management	3	S	
SOE 464 Landscape Ecology [M]	3	SAYO	
SOE 465 Aquatic Microbial Ecology	4	S	
SOE 471 International Wildlife Conservation	3	SAYE	
SOE 485 Disturbance Ecology	3	SAYO	
Environmental Science & Climate			
SOE 250 Introduction to Earth System Science	3	S	
SOE 285 The Science and Policy of Climate Change	3	S	
SOE 311 Modeling the Environment	4	F	
SOE 335 Environmental Policy [M]	3	F	
SOE 390 Living on the Edge: Global Climate Change and Earth History	3	F	
SOE 402 Human Health and the Environment	3	F	
SOE 404 The Ecosystem [M]	3	S	
SOE 412 Global Biogeochemistry [M]	3	F	
SOE 444 Environmental Assessment	3	F, S	
SOE 445 Hazardous Waste Management	3	F	
SOE 460 Biotechnology and the Environment	3	F	
SOE 483 Sustainability: Applied Improvement or Promotion Projects	3	S	
BIOLOGY 469 Ecosystem Ecology and Global Change [M]	3	F	
BIOLOGY 330 Principles of Conservation	3	S, Su	
CE 401 Climate Change Science and Engineering	3	S	
CE 403 Air Quality Management	3	S	
Water Science			
SOE 230 Oceanography	3	F, S	
SOE 250 Introduction to Earth System Science	3	S	
SOE 275 Rivers: Form, Function, and Management	3	F	
SOE 311 Modeling the Environment	4	F	
SOE 315 Water and the Earth	3	S	
SOE 390 Living on the Edge: Global Climate Change and Earth History	3	F	
SOE 411 Umnology [M]	3	F	
SOE 417 Fisheries Science and Management	3	F	
SOE 461 Watershed Management	3	S	
SOE 463 Water and the Environment	3	S	
SOE 465 Aquatic Microbial Ecology	4	S	
SOE 475 Groundwater	3	F	
BIOLOGY 410 Marine Ecology	3	F	
BIOLOGY 412 Biology of Fishes	3	SAYE	
Earth Sciences			
SOE 207 Geology Field Camp	3	SS	
SOE 230 Oceanography	3	F, S	
SOE 303 Environmental Geology	3	S	
SOE 315 Water and the Earth	3	S	
SOE 320 Sedimentary Petrology and Sedimentation	3	F	
SOE 340 Structural Geology [M]	4	S	
SOE 350 Mineralogy and Crystallography	4	F	
SOE 356 Igneous and Metamorphic Petrology	4	S	
SOE 405 Near Surface Geophysics	4	F	
SOE 408 Field Geology [M]	3	SS	
SOE 412 Global Biogeochemistry [M]	3	F	
SOE 416 Soil Processes in the Earth's Critical Zone	3	F	
SOE 463 Water and the Environment	3	S	
SOE 467 Volcanology	4	FAYE	
SOE 470 Economic Geology	3	S	
SOE 474 Physics and Chemistry of the Earth	4	S	
SOE 475 Groundwater	3	F	
SOIL SCI 374 Introduction to Remote Sensing	3	S	
SOIL SCI 441-442 Soil Fertility (with lab)	4	S	
SOIL SCI 414-415 Environmental Biophysics (with lab)	3	S	
Policy and Planning			
SOE 285 The Science and Policy of Climate Change	3	S	
SOE 335 Environmental Policy [M]	3	F	
SOE 390 Living on the Edge: Global Climate Change and Earth History	3	F	
SOE 438 Natural Resource and Environmental Policy and Law	3	S	
SOE 444 Environmental Assessment	3	F, S	
SOE 460 Biotechnology and the Environment	3	F	
SOE 483 Sustainability: Applied Improvement or Promotion Projects	3	S	
ECONS 326 Aspects of Sustainable Development	3	S	
ECONS 330 Natural Resource Economics	3	F	
ECONS 430 Managing the Global Environment	3	F	
ECONS 431 Economic Analysis of Environmental and Natural Resource Policies	3	F	
H D 487 Special Topics: Global Issues in Agricultural, Human, and Natural Resource Sciences	3	S	
PHIL 370 Environmental Ethics	3	S	
POL S 316 American Public Policy	3	F	
POL S 430 The Politics of Natural Resource and Environmental Policy [M]	3	TBD	
SOC 332 Sustainability and Society	3	F	
SOC 336 Sociology of Food	3	S	
Plants/Horticulture			
BIOLOGY 332 Systematic Botany	4	S	
BIOLOGY 401 Plants and People	3	S	
BIOLOGY 409 Plant Anatomy	4	FAYE	
BIOLOGY 420 Plant Physiology	3	F	
CROP SCI 202 Crop Growth and Development	3	S	
CROP SCI 360 World Agricultural Systems	3	F, S	
CROP SCI 411 Crop Environment Interactions [M]	3	F	
CROP SCI 443 Plant Breeding for Organic Agriculture	3	FAYO	
CROP SCI 445 Plant Breeding [M]	4	SAYE	
CROP SCI 480 Plant Genomics and Biotechnology	3	FAYE	
HORT 330 Landscape Plants for Urban and Community Environments	3	F	
HORT 331 Landscape Plant Installation and Management	3	S	
HORT 332 Interior Plantscaping	3	F	
HORT 351 Plant Propagation	4	S	
HORT 357/358 Greenhouse Management and Crop Production (and lab)	4	S	
HORT 416 Advanced Horticultural Crop Physiology	3	S	
PL P 429 General Plant Pathology	3	F	
SOIL SCI 302 Introduction to Agroecology [M]	3	S	

These are suggested emphasis areas; students may work with their advisor to develop different emphasis areas that meet their career objectives.