ECOLOGY AND CONSERVATION BIOLOGY

NATURAL RESOURCE ECOLOGY OPTION

2012 - 2013 Advising Checklist

Requirements for degree (BS) in Ecology and Conservation Biology – Natural Resource Ecology option

College of Natural Resources

NAME_____ **ADVISOR**_____

COLLEGE TRANSFERRED FROM_____ **YEAR STARTED UI**_____

Course		Title (prerequisite)	CR	Sem	GR	Course		Title (prerequisite)	CR	Sem	GR
FIRST YEAR						**THIRD YEAR**					
NR	101	Exploring Natural Resources	1	F		Engl	317	Technical Writing (Engl 102, junior status or perm.)	3	F/S	
NR	200	Seminar (permission)	1	S		For**	330	Forest Ecosystem Processes (Soil 205/206, Math 143 or 160, Phys 100 or 111)	3	F	
Chem Chem	101 111	Intro. To Chemistry I OR Principles of Chemistry I (scores or Math 143)	4	F/S		CSS For	383 375	Res. Econ/Nat Res Mgrs (Econ 201 or 202) Intro to Spatial Analysis	3 3	S S	
Biol	115	Cells & Evol. Of Life (co-or pre-req Chem 101 or Chem 111)	4	F/S		Fish** Wlf**	316 316	Princ / Pop.Dynamics (For/REM 221) Or Wildlife Ecol II (Wlf 314 and 315)	2 4	S S	
Comm	101	Fundamentals of Public Speaking	2	F/S							
Engl	102	College Writing & Rhetoric	3	F/S							
Math Math	160 170	Survey of Calculus (Scores or Math 143) OR Analytic Geom./Calculus (Scores or Math 143)	4	F/S		REM For	341 320	Systematic Botany (Biol 115 & 116) OR Dendrology (Biol 116 or perm)	3 4	S S	
Soil **	205/ 206	General Soils & Lab (Chem 101 or 111)	3/1	F/S							
SECOND YEAR						**FOURTH YEAR**					
Biol*	116	Organisms & Environ.(Chem 101, Biol 115)	4	F/S		CSS/ Fish/ For/ NR/ REM/ Wlf	485 OR 497	Ecol. & Cons. Biol Project Senior Thesis	1/2 1/2	F/S F/S	
Biol*	213	Princ. of Biol Structure/Function (Biol 115, Biol 116)	4	S							
Econ Econ	202 272	Principles of Economics (Micro) OR Foundations of Economics	3 4	F/S							
For/ CSS	235	Society and Natural Resources	3	F/S							
Stat*	251	Statistical Methods (Math 137, 143, or 160)	3	F/S							
For */ REM *	221	Ecology (Biol 115 or 116, 213 recommended)	3	F/S							
Phys Phys	100 111	Fundamentals of Physics and lab OR General Physics I and lab (Math 143)	3/1 3/1	S F/S			483	Senior Project Presentation	1	F/S	
						REM**	429	Landscape Ecology of Forests and Rangelands For/REM 221)	3	S	
Social Science/Political Science Restricted Elective -1 course (see back)											
						Quantitative Resource Analysis Restricted Electives – 1 course					
Resource Management Restricted Elective -1 course (see back)											
Ecology Restricted Electives – 3 courses minimum 10 credits (see back)						**COURSES FOR UNIVERSITY OF STATE BOARD CORE**					
						ISEM	101	Integrated Seminar	3	F/S	
								SS			
								H			
								I			

Students pursuing a B.S. in Ecology & Conservation Biology must receive a grade of C or better in each of the following 4 indicator courses to register in upper division courses in Fish/For/REM/CSS/Wlf and to graduate with a B.S. in either option:

Biol 116 _____ _____

Biol 213 _____ _____

Stat 251 _____ _____

For/REM 221 _____ _____

To graduate, a student must also achieve a C or better in each of these core ECB courses: NR 200, Soils 205/206, Fish 316 or Wlf 316, For 330, For/REM 429

Before students are allowed to begin their senior thesis or project (497 or 485), they must attend two evening thesis/project sessions and one senior poster session.

2012-2013 ADVISING CHECKLIST – NATURAL RESOURCE ECOLOGY OPTION

Course		*Title (prerequisites)*	*CR*	*Sem/Yr.*	*GR*
RESOURCE MANAGEMENT RESTRICTED ELECTIVES (choose one course):					
CSS	385	Conservation Management & Planning I (junior or senior standing)	4	F	
CSS	490	Wilderness and Protected Area Mgmt. Offered alternate years / Spring	3	S	
CSS	496	Monitoring Impacts in Protected Areas and Wilderness Offered alternate years / Spring	3	S	
Fish	418	Fisheries Management (Fish 314, Biol 481, Stat 251)	4	F	
For	424	Forest Dynamics and Management (Sr. standing, For 274, 320, 324, and 330)	4	F	
For	462	Watershed Science and Management (Math 43 or 160, H.S. physics or Phys 100 or 111)	3	F	
REM	454	Invasive Plant Management (recommended prep: PlSc 338) Offered alternate years / Spring	3	S	
REM	456	Integrated Rangeland Management (recommended prep.: REM 251)	3	S	
Wlf	492	Wildlife Management pre-req: Wlf 316, Wlf 448; Pre-or co-req: Biol 481, 483 or Wlf 482	4	S	
QUANTITATIVE RESOURCE ANALYSIS RESTRICTED ELECTIVES (choose one course):					
CSS	310	Social Research Methods in Conservation (Stat 251)	4	F	
For/REM	472	Remote Sensing of the Environment (recommended prep: Phys 100 or Phys 112)	3-4	F	
Geog	385	GIS Primer (pre-req.: basic knowledge of PC-based operating system)	3	F/S	
REM	357	Rangeland and Riparian Habitat Assessment (recommended prep: basic statistics course)	3	F	
Stat	401	Statistical Analysis (Stat 251, 271, or 301)	3	F/S	
Stat	422	Sampling Methods (Stat 251, 271, or 301) Offered through EO in Spring	3	F/S	
Wlf	448	Fish & Wildlife Population Ecology (Stat 251; and Fish or Wlf 316 or course in vertebrate ecology)	4	F	
ECOLOGY RESTRICTED ELECTIVES (choose 3 courses – minimum 10 credits, 2 credits of which must be asterisked* course):**					
Biol	421	Advanced Evolution/Pop. Dynamics (recom. prep: genetics; pre-req: Biol 314, For/REM 221	3	S	
Biol	478	Animal Behavior (Biol 115 and 116)	3	S	
Ent	472	Aquatic Entomology Offered alternate years / Spring	3	S	
Fish	314	Fish Ecology (For or REM 221 or Biol 314)	3	F	
Fish***	315	Fish Ecology lab (For or REM 221 or Biol 314; co-req Fish 314)	1	F	
Fish***	415	Limnology (For or REM 221, Stat 251)	4	F	
Fish***	430	Riparian Ecology and Management (For or REM 221 or Biol 314)	3	S	
For***	423	Forest Community Ecology (For or REM 221 or Biol 314) – graded P/F Check for when offered	1		
For	426	Fire Ecology and Management (For or REM 221 or Biol 314)	3	F	
For***	463	Hydrologic Measurement Techniques (co-req: CE 325/BAE 355, BAE 350, or For 462)	1	F	
For	468	Forest and Plant Pathology (For 320 and 330)	2	S	
For	469	Introduction to Forest Insects (For or REM 221 or Biol 314)	2	S	
Geog	310	Biogeography (Geog 100, EnvS 101, For 221, or REM 221)	2-3	S	
Geog-REM	450	Global Environmental Change (Math 143 or Stat 251)	3	S	
MMBB	425	Microbial Ecology (recom prep.: MMBB 250, Math 137 or 143) Offered alternate years / Spring	3	S	
PlSc	410	Biology of Weeds Offered alternate years / Fall	3	F	
REM	440	Wildland Restoration Ecology (recommended prep.: a general ecology course)	3	S	
REM	459	Rangeland Ecology (www only; recommended prep.: a general ecology course)	2	F	
REM***	460	Rangeland Ecology Current Topics & Field Studies (co-req.: REM 459)	1	F	
Wlf	314	Wildlife Ecology I (For or REM 221 or Biol 314)	3	F	
Wlf***	315	Wildlife Ecology I Laboratory (co-req.: Wlf 314)	1	F	
Wlf	440	Conservation Biology (For or REM 221 or Biol 314)	3	F	
SOCIAL SCIENCE/POLITICAL SCIENCE RESTRICTED ELECTIVES (choose one course):					
Comm	410	Conflict Management	3	F/S	
CSS	387	Environmental Communication Skills (CSS 287 or permission)	3	S	
CSS	481	Conservation Leadership (For/CSS 235, CSS 287)	3	F	
CSS	489	Personalities and Philosophies in Conservation	2	S	
CSS	493	International Land Preservation and Conservation Systems (Alternate Years)	3	S	
For	484	Forest Policy and Administration	2	S	
Hist	424	American Environmental History Check for when offered	3		
Phil	382	Philosophy of Ecology Check for when offered	3		
Phil	452	Environmental Philosophy (offered www in summer)	3	F	
Phil	457	Natural Resource Ethics Check for when offered	3		
PolS/CSS	364	Politics of the Environment	3	F	