

# Natural Resources & Environmental Sciences Advising Form - March 2019

To be completed and filed with the NRES Director: Dr. Shawn Hutchinson, Seaton 3018 (Phone: 532-6727)

Name: \_\_\_\_\_ WID # \_\_\_\_\_

Primary Major: \_\_\_\_\_ NRES Enrollment Date: \_\_\_\_\_

Current Class: Fr Soph Jr Sr College: \_\_\_\_\_ Expected Graduation Date: \_\_\_\_\_

NRES Advisor \_\_\_\_\_ Primary Major Advisor \_\_\_\_\_

University Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Permanent Address: \_\_\_\_\_

Phone: \_\_\_\_\_

*Grad Check*

Graduation Date: \_\_\_\_\_

- Courses checked
- Registrar Notified
- Diploma Sent

**ENTRY REQUIREMENTS:** Students must successfully complete the following courses to become eligible to pursue the NRES interdisciplinary option.

**IA. BASIC SCIENCES:** All these courses or their more advanced equivalent.

_____	MATH 100	College Algebra	3
_____	CHM 110 & 111	General Chemistry and Lab	4
or	CHM 210	Chemistry I	4
_____	PHYS 101&103	The Physical World and Lab	4
or	PHYS 113	General Physics I	4
or	PHYS 115	Descriptive Physics	5
_____	ECON 110	Principles of Macroeconomics	3
or	ECON 120	Principles of Microeconomics	3
or	AGEC 120	Agricultural Economics & Agribusiness	3

**IB. BASIC RESOURCES:** Two courses from different departments from this list (minimum of 6 credit hours):

_____	AGRON 305	Soils	4
_____	AGRON 335	Environmental Quality	3
_____	BIOL 198	Principles of Biology	4
_____	PMC 275	Intro. Natural Resource Mgt.	3
_____	GEOG 221	Intro. Physical Geography	4
_____	GEOG 340	Geography Natural Resources	3
_____	GEOL 100	Earth in Action	3
_____	GEOL 105	Oceanography	3
_____	GEOL 115	Environmental Geology	3
_____	GEOL 125	Natural Disasters	3
_____	Other		

**IC. Life Science Course:** Choose one; can be used to meet another requirement):

_____	AGRON 220	_____	BIOL 198
_____	ANTH 280	_____	BIOL 303
_____	BIOCH 265	_____	GEOG 650
_____	BIOCH 521	_____	HORT 201

**II. BLOCK ELECTIVE COURSES:** From the following lists, students must successfully complete a minimum of 5 courses (15 hours minimum) from at least 4 departments. One course must be from each of the three areas (natural, applied, and social sciences/humanities), two courses must be numbered 500 or greater, and three courses must have a prerequisite (courses without a prerequisite are underlined). Courses used to meet entry requirements may not be used in this section.

**Natural Science Courses**

_____	AGRON 305	Soils	4
_____	AGRON 515	Soil Genesis & Classification	3
_____	BIOL 433	Intro Fish Wildlife, Cons. Biol	3
_____	BIOL 529	Fundamentals of Ecology	3
_____	BIOL 612	Freshwater Ecology	4
_____	BIOL 642	Prin. Of Conservation Biology	3
_____	BIOL 687	Microbial Ecology	3
_____	CHM 315	Environmental Science	3
_____	CHM 316	Environmental Science Lab	1
_____	<u>ENTOM 301</u>	<u>Insects and People</u>	3
_____	<u>ENTOM 312</u>	<u>General Entomology</u>	3
_____	ENTOM 692	Insect Ecology	2
_____	GEOG 235	Atmospheric Science	4
_____	GEOG 535	Fundamentals of Climatology	4
_____	GEOG 740	Fluvial Geomorphology	3
_____	GEOL 305	Earth Resources	3
_____	<u>GEOL 399</u>	<u>Honors Seminar in Geology</u>	1-3
_____	GEOL 506	Environmental Studies	3
_____	GEOL 520	Geomorphology	3
_____	GEOL 540	Geologic Record of Climate Chng.	3
_____	GEOL 611	Hydrogeology	3
_____	GEOL 711	Water Resource Geochemistry	3
_____	OTHER		

**Applied Science and Technology Courses**

_____	AGRON 330	Weed Science	3
_____	AGRON 335	Environmental Quality	3
_____	AGRON 375	Soil Fertility	3
_____	<u>AGRON 501</u>	<u>Range Management</u>	3
_____	AGRON 635	Soil Conservation & Mgt	3
_____	AGRON 645	Soil Microbiology	3
_____	AGRON 646	Soil Microbiology Lab	1
_____	AGRON 655	Site Specific Agriculture	3
_____	AGRON 746	Environmental Soil Physics	3
_____	ATM 558	Hydrology and Soil Erosion Mgmt	3
_____	ATM 653	Water Mgmt. & Irrigation	2
_____	ATM 661	Watershed Assess & Mgmt	3
_____	BAE 560	Hydrology For Biological Sys.	3
_____	<u>BAE 620</u>	<u>Problems in Agricultural Engg</u>	1-3
_____	BAE 651	Air Pollution Engineering	3
_____	BAE 643	Life Cycle Assessment	3
_____	BAE 660	Hydraulic Transport Biol Sys	3
_____	BAE 664	Green Strmwtr Infra Des Assess	3
_____	BIOL 303	Ecology of Environ. Problems	3
_____	BIOL 684	Wildlife Management & Techniques	4
_____	BIOL 696	Fisheries Management & Techniques	4
_____	CE 550	Water Resource Engineering	3
_____	CE 552	Hydraulic Engineering	3
_____	CE 563	Environ. Engineering Fund.	3
_____	CE 565	Waste & Wastewater Engin.	3
_____	CE 625	Prin. Of Geo-viron. Engg	3
_____	CE 654	Design of Grndwtr Flow Systems	3
_____	CE 766	Wastewater Engr./Biol. Proc.	3
_____	CE 768	Geo-viron. Engr. Design	3
_____	CHE 650	Hazardous Waste Engg Sem	1

**Applied Science and Technology Courses - Continued**

_____	CHE 670	Sem/Sustainability	1
_____	CHE 715	Biochemical Engineering	3
_____	GEOG 508	Geographic Info Systems I	4
_____	GEOG 605	Remote Sensing of Environ.	3
_____	GEOL 730	Petroleum Geology	3
_____	GEOL 745	Exploration Geophysics	3
_____	<u>LAR 420</u>	<u>Natural Systems &amp; Site Analysis</u>	4
_____	<u>LAR 734</u>	<u>Rivers: Process and Forms</u>	3
_____	<u>PMC 575</u>	<u>Water Mgmt Natural Res Mgrs</u>	3
_____	PMC 635	Methods of Environ. Interp.	3
_____	PMC 740	Adv. Env. Interpretation	3
_____	OTHER		

**III. Social Science/Humanities Courses**

_____	<u>AGCOM/MC 712</u>	<u>Environmental Communications</u>	3
_____	AGEC 525	Natural Resource & Environ. Econ	3
_____	AGEC 610	Current Ag. & Natural Res. Policy	3
_____	<u>ANTH 260</u>	<u>Intro to Archeology</u>	3
_____	<u>ANTH 310</u>	<u>Environmental Anthropology</u>	3
_____	<u>AT/ID 350</u>	<u>Our Sustainable World</u>	3
_____	ECON 527	Environmental Economics	3
_____	<u>ENGL 270</u>	<u>American Natures</u>	3
_____	<u>ENGL 399</u>	<u>Honors Sem: Lit and Environ</u>	3
_____	<u>ENGL 680</u>	<u>Environ. in Am. Literature 3</u>	
_____	<u>GENAG 670</u>	<u>Intro to Ag. Res/Env. Mgt.</u>	2
_____	<u>GEOG 340</u>	<u>Geog. Natural Resources</u>	3
_____	<u>GEOG 360</u>	<u>Sustainability Concepts &amp; Issues</u>	3
_____	GEOG 460	Human Dim. Of Global Change	3
_____	GEOG 600	Mountain Geography	3
_____	GEOG 718	Geography of Public Lands	3
_____	GEOG 720	Geography of Land Use	3
_____	GEOG 725	Geog. of Water Resources	3
_____	GEOG 761	Human Impact on the Environ.	3
_____	GEOG 765	Geography of Natural Hazards	3
_____	GEOG 770	Perception of the Environ.	3
_____	<u>GWSS 480</u>	<u>Gender, Environ. &amp; Justice</u>	3
_____	<u>HIST 511</u>	<u>Environmental History</u>	3
_____	<u>HIST 557</u>	<u>History of American Agriculture</u>	3
_____	<u>LAR 322</u>	<u>Environmental Issues &amp; Ethics</u>	3
_____	LAR 646	Community Engagement Studio	5
_____	PHILO 595	Environmental Ethics	3
_____	PLAN 315	Intro. to City Planning	3
_____	<u>POLSC 250</u>	<u>Environmental Political Thought</u>	3
_____	SOCIO 536	Society and Natural Resources	3
_____	OTHER		

**III. CAPSTONE COURSE.** All students must successfully complete the designated NRES capstone course during their senior year.

_____	BAE 582, DAS 582, or GENAG 582 NRES Project	3
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