

Natural Resources & Environmental Sciences Advising Form—October 2023

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 _____

<i>Grad Check :</i> _____ <div style="display: flex; justify-content: space-between; align-items: center;"> Graduation Date Courses Checked <input type="checkbox"/> Grad Approved <input type="checkbox"/> Diploma Sent <input type="checkbox"/> </div>

ENTRY REQUIREMENTS: Students must successfully complete the following courses as part of the NRES curriculum. These courses often serve as prerequisites to the block electives listed on the reverse side.

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. Life Science Course: Choose one; can also be used to meet another a Basic requirement):

- | | |
|-----------------|----------------|
| _____ AGRON 220 | _____ BIOL 198 |
| _____ ANTH 280 | _____ BIOL 303 |
| _____ BIOCH 265 | _____ GEOL 650 |
| _____ BIOCH 521 | _____ HORT 201 |

IC. 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 |
| _____ | GEOG 121 | 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 |
| _____ | PMC 275 | Intro. Natural Resource Mgt. | 3 |
| _____ | Other | REQUIRES VARIANCE | |

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

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 (reverse side) may not be used in this section.

Natural Science Courses

_____	AGRON 305	Soils	4
_____	AGRON665	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	Global Climatology Climate Chg	4
_____	GEOG 740	Fluvial Geomorphology	3
_____	GEOL 305	Earth Resources	3
_____	GEOL 315	Geology of National Parks	3
_____	<u>GEOL 399</u>	<u>Honors Seminar in Geology</u>	1-3
_____	GEOL 502	Mineralogy	3
_____	GEOL 506	Environmental Studies	3
_____	GEOL 520	Geomorphology	3
_____	GEOL 540	Geologic Record of Climate Chng.	3
_____	GEOL 611	Hydrogeology	3
_____	GEOL 650	Geomicrobiology	3
_____	GEOL 702	Economic Geology	3
_____	GEOL 711	Water Resource Geochemistry	3
_____	GEOL 760	Geochem Biogeochem Modeling	3
_____	OTHER	REQUIRES VARIANCE	—

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 and Water Conservation	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 643	Life Cycle Assessment	3
_____	BAE 651	Air Pollution Engineering	3
_____	BAE 660	Hydraulic Transport Biol Sys	3
_____	BAE 664	Green Strmwtr Infra Des Assess	3
_____	BAE 768	Geoenviron Engg Design	3
_____	BIOL 303	Ecology of Environ. Problems	3
_____	BIOL 435	Environmental Biology	3
_____	BIOL 684	Wildlife Mgmt & Techniques	4
_____	BIOL 696	Fisheries Mgmt & 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 Geoenviron. Engg	3
_____	CE 654	Design of Grndwtr Flow Systems	3
_____	CE 766	Wastewater Engr./Biol. Proc.	3

Applied Science and Technology Courses - Continued

_____	CE 768	Geoenviron Engg Design	3
_____	CHE 650	Hazardous Waste Engg Sem	1
_____	CHE 670	Sem/Sustainability	1
_____	CHE 715	Biochemical Engineering	3
_____	GEOG 440	Spat Analy Surface Water Hydro	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
_____	GEOL 760	Geochem Biogeochem Modeling	3
_____	LAR 420	Socio-Ecological Systems Studio	5
_____	<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	REQUIRES VARIANCE	—

III. Social Science/Humanities Courses

_____	<u>AGCOM 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
_____	ENGL 450	Literature & Society: Wild Lit	3
_____	<u>ENGL 680</u>	<u>Environ. in Am. Literature</u>	3
_____	<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 & Issues</u>	3
_____	<u>GEOG 370</u>	<u>Environmental Justice</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 722	Geographies Int'l Conservation	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, & Justice</u>	3
_____	<u>HIST 511</u>	<u>Environmental History</u>	3
_____	<u>HIST 557</u>	<u>History of American Agriculture</u>	3
_____	LAR 298	Ethics and Environ Dilemmas	3
_____	LAR 646	Community Engagement Studio	5
_____	<u>MC 712</u>	<u>Environmental Communications</u>	3
_____	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	REQUIRES VARIANCE	—

Block Electives Checklist:

15 hours?	_____	3 areas?	_____
4 depts?	_____	3 pre-req?	_____
2 500-level?	_____		