Who can take the NRES secondary major?
This secondary major is open to all degree-seeking undergraduate or graduate students in all colleges. Courses required for the NRES secondary major can be taken concurrently with your major.

Does the NRES secondary major add more hours?
Most programs of study will allow completion of this secondary major within the normal time required by the primary major. All NRES students must complete BAE/DAS/GENAG 582 NRES Capstone during their senior year. Whether or not additional hours are required depends on individual programs and use of electives.

Is this secondary major like a minor?
Minors are typically based within an existing discipline. Because resource and environmental issues are so broad and complex, they exceed the scope of any one discipline and are best addressed through an interdisciplinary (multiple colleges and departments) secondary major.

What will I learn in this secondary major?
The NRES program provides an interdisciplinary overlay for your primary major. Its focus is to broaden students’ perspectives, in part through course offerings and in part through interactions with students from other disciplines. The educational goal of the NRES secondary major is to prepare undergraduate students to apply broadly-based scientific knowledge to the use, management, sustainability, and quality of soil, air, water, mineral, biological, and energy resources.

What are the academic requirements in the NRES secondary major?
All NRES students must meet the entry, capstone, and block electives course requirements shown in this guide. In addition, at least one life science course must be completed as part of either the primary major or this secondary major.

How do I participate in the NRES secondary major?
Either make an appointment to meet with the Director, Dr. Shawn Hutchinson in 1077 Seaton Hall (Phone: 785-532-6727 or e-mail: shutch@ksu.edu) or apply online from the NRES website (http://www.ksu.edu/nres/). An academic advisor will be available to assist in meeting NRES requirements.

How does the NRES secondary major function?
The program is administered through the Director and through an interdisciplinary Governing Board elected from the faculty teaching NRES courses. Currently, the NRES Director is Shawn Hutchinson (Geography). Others serving on the Board are: Colby Moorberg (Agronomy), Nathan Nelson (Agronomy), Stacy Hutchinson (Biological and Agricultural Engineering), Trisha Moore (Biological and Agricultural Engineering), Matthew Sanderson (Sociology), Kendra McLauchlan (Geography), Saugata Datta (Geology), and Jim Sherow (History).

Enroll in NRES at our WEBSITE
The most current curriculum information and an NRES enrollment form are available at http://www.ksu.edu/nres

Revised January 16, 2019
What is the NRES secondary major?
The NRES secondary major is an academic program consisting of an array of courses taken by students interested in adding academic breadth in natural resource and environmental concepts to the depth provided in their primary major.

Why take the NRES secondary major?
Increasing government, public, and corporate concerns about environmental affairs are producing career opportunities for individuals capable of dealing with the broad scope of natural resource and environmental problems. The NRES secondary major provides extra qualifications for employment by enhancing the knowledge base of the primary major. Participation and completion of the NRES secondary major will be noted on your KSU transcript and graduates will receive a secondary major diploma.

NRES Academic Requirements

### BASIC REQUIREMENTS:

Students must successfully complete Parts A, B, and C of the basic entry courses to fulfill the NRES secondary major requirements.

- **K-State 8 Courses**
  - Four basic science courses (or their more advanced equivalent).
  - **MATH 100 College Algebra (3)**
  - **CHM 110 General Chemistry (3)**
  - **AGRON 305 Soils (4)**
  - **AGRON 335 Environmental Quality (3)**
  - **AGRON 501 Range Management (3)**
  - **AGRON 635 Soil Conservation & Mgmt (3)**
  - **AGRON 645 Soil Microbiology (3)**
  - **AGRON 646 Soil Microbiology (3)**
  - **AGRON 655 Site Specific Agriculture (3)**
  - **AGRON 746 Environmental Soil Physics (3)**
  - **AGCOM 712 Environ. Communications (3)**
  - **AGEN 205 Soil & Seisin (3)**
  - **AGEN 250 Principles of Biology (4)**
  - **AGEN 251 Intro Physical Geog (4)**
  - **AGEN 254 Geog Natural Resources (3)**
  - **AGEN 340 Geog Nat Resources (3)**
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  - **AGEN 340 Geog Nat Resources (3)**

- **A. Four basic science courses (or their more advanced equivalent).**
  - **AGRON 305 Soils (4)**
  - **AGRON 335 Environmental Quality (3)**
  - **AGRON 501 Range Management (3)**
  - **AGRON 635 Soil Conservation & Mgmt (3)**
  - **AGRON 645 Soil Microbiology (3)**
  - **AGRON 646 Soil Microbiology (3)**
  - **AGRON 655 Site Specific Agriculture (3)**
  - **AGRON 746 Environmental Soil Physics (3)**
  - **AGCOM 712 Environ. Communications (3)**
  - **AGEN 205 Soil & Seisin (3)**
  - **AGEN 250 Principles of Biology (4)**
  - **AGEN 251 Intro Physical Geog (4)**
  - **AGEN 254 Geog Natural Resources (3)**
  - **AGEN 340 Geog Natural Resources (3)**

- **B. Two of the following basic resource courses. These courses must be from different departments and total a minimum of 6 credits.**
  - **AGRON 305 Soils (4)**
  - **AGRON 335 Environmental Quality (3)**
  - **AGRON 501 Range Management (3)**
  - **AGRON 635 Soil Conservation & Mgmt (3)**
  - **AGRON 645 Soil Microbiology (3)**
  - **AGRON 646 Soil Microbiology (3)**
  - **AGRON 655 Site Specific Agriculture (3)**

### Applied Science & Technology Courses

- **AGRON 330 Weed Science (3)**
- **AGRON 335 Environmental Quality (3)**
- **AGRON 375 Soil Fertility (3)**
- **AGRON 501 Range Management (3)**
- **AGRON 635 Soil Conservation & Mgmt (3)**
- **AGRON 645 Soil Microbiology (3)**
- **AGRON 646 Soil Microbiology (3)**
- **AGRON 655 Site Specific Agriculture (3)**
- **AGRON 746 Environmental Soil Physics (3)**
- **AGCOM 712 Environ. Communications (3)**
- **AGEN 205 Soil & Seisin (3)**
- **AGEN 250 Principles of Biology (4)**
- **AGEN 251 Intro Physical Geog (4)**
- **AGEN 254 Geog Natural Resources (3)**
- **AGEN 340 Geog Natural Resources (3)**

### Social Science/Humanities Courses

- **AGCOM 712 Environ. Communications (3)**
- **AGEC 525 Nat Res & Environ Econ (3)**
- **AGEC 610 Current Agr & Nat Res Policy (3)**
- **ANTH 260 Intro to Archaeology (3)**
- **ANTH 310 Environmental Anthropology (3)**
- **ATD 302 Our Sustainable World (3)**
- **BIOG 527 Environmental Economics (3)**
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