

The Ohio State University  
College of Arts and Sciences

**Sustainable and Resilient Social and Ecological Systems (SARSES) Certificate (1A, 1B, 2)**

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The Sustainable and Resilient Social and Ecological Systems (SARSES) program is an interdisciplinary certificate designed to give students a deep appreciation of the relationship between multiple systems and inform their participation in a wide variety of sustainability-related fields. Upon completion of the academic certificate in Sustainable and Resilient Social and Ecological Systems, learners will be better prepared to understand the systemic interconnections between physical earth systems, ecosystems, and human systems and apply this understanding to the development of sustainable systems in their future work and/or studies.

**Important Notes:**

Students are encouraged to work with the advisors early in the process of pursuing this certificate in order to plan the most efficacious path to completion.

Anthropology 3050 functions as the foundation course for the certificate and students are thus encouraged to take this course before moving on to other requirements. Anthropology 3051 is the capstone and should be taken at the end of the certificate program.

The SARSES certificate requires a minimum of 14 credits drawn from diverse departments and distributed as follows (\*indicates that a course is listed as offered on regional campuses):

**Required foundation course:**

\*ANTHROP 3050: Social and Ecological Systems: From Problems to Prospects (4)

**Choose one course from three of the following four categories:**

A 2000+ level **ecosystems course:**

- EEOB 4240: Focused Study of Ecology and Evolution - Plants and People (3)  
Prereq: 1 course in Biological Sciences
- EEOB 4410: Conservation Biology (3)  
Prereq: EEOB 3310 and 3410, or permission of instructor.
- \*ENR 2100: Introduction to Environmental Science (3)
- ENR 3322: Forest Ecosystems (3)  
Prereq or concur: 2100, 2300, and 3321, or permission of instructor.
- GEOG 3980: Biogeography: An Introduction to Life on Earth (3)
- HCS 2201: Ecology of Managed Plant Systems (4)

A 2000+ level **earth systems course:**

- \*EARTHSCI 2203: Environmental Geoscience (3)
- \*GEOG 2800: Our Global Environment (3)
- \*GEOG 2960: Introduction to Physical Geography (4)
- GEOG 3900: Global Climate Change: Causes and Consequences (3)

A 2000+ level **environmental social science course:**

- AEDECON 2500: Introduction to Environment, Economy, Development, and Sustainability (3)  
Prereq: soph standing or permission of instructor.
- AEDECON 4330: The Sustainable Economy: Concepts and Methods (3)  
Prereq: AEDECON 4310.
- \*ANTHROP 3623: Environmental Anthropology (3)  
Prereq: ANTRHOP 2202 or equiv, or permission of instructor.
- ANTHROP 4597.03H: The Prehistory of Environment and Climate (3)
- ARCH 2220: Sustainability and the Built Environment (3)

- CRPLAN 3000: Planning Resilient Environments (3)  
Prereq: Math 1148 or permission of instructor.
- \*ENR 2300: Society and Natural Resources (3)
- \*ENR 3200 Environmental and Natural Resource Policy (3)  
Prereq: ENR 2100 and 2300. Not open to students with credit for 4000.
- ENR 3400: Psychology of Environmental Problems (3)  
Prereq: ENR 2300 or Psych 1100.
- ENR 3530: Women, Environment and Development (3)
- PUBHEHS 5320: Climate Change and Human Health (3)
- \*SOCIO 3460: Environmental Justice (3)

A 2000+ level **environmental humanities course:**

- \*ENGLISH 3597.03: Environmental Citizenship (3)
- \*ENGLISH 4321: Environmental Literatures, Cultures, and Media (3)  
Prereq: English 2367, or permission of instructor.
- \*HISTORY 2700: Global Environmental History (3)  
Prereq or concur: English 1110.xx.
- \*HISTORY 2704: Water: A Human History (3)  
Prereq or concur: English 1110.xx, or permission of instructor.
- \*HISTORY 3700: American Environmental History (3)  
Prereq or concur: English 1110.xx, or permission of instructor.
- PHILOS 2342: Environmental Ethics (3)

**Required capstone reflection portfolio:**

- \*ANTHROP 3051: SARSES Capstone Portfolio (1)

## **SARSES Certificate Program Guidelines**

Credit hours required:

- Minimum of 14

Overlap with courses in degree:

- The certificate must be in a different subject than the major
- Maximum 50% overlap with courses in a major, minor, other certificate, or GE

Grades required:

- Minimum C- for a course to be listed on the certificate
- Minimum of 2.00 cumulative GPA for all certificate course work

X193 credits:

- Not permitted

Approval required:

- The certificate course work must be approved by a college/school advisor

Consult with Advisor:

- For filing deadlines
- For changes or exceptions to a certificate plan

College of Arts and Sciences  
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