

Name: _____ T Number: _____

CHECKLIST OF ENVIRONMENTAL STUDIES MAJOR REQUIREMENTS, 2023–24

Updated 8.24.2023

To be completed, signed, and returned to ES Program Office with Declaration of Major form

Important: If emailing your completed form, you must save it as: LAST, FIRST ES Major Checklist (today's date)

I. CORE COURSES REQUIRED OF ALL MAJORS

In all the columns below, insert a semester and year to indicate courses taken and to be taken. Semesters next offered, college designation, or other attributes (e.g., QFR, W-Int., 2NS) are listed in parentheses.

Taken	To be Taken
_____	ENVS 101 Environment and Society (every semester)
_____	_____ 5 on the AP Environmental Science exam (indicate additional SS/HU elective below)
_____	ENVS 201 Introduction to Environmental Humanities (generally every semester) (F23)
_____	ENVS 208 Environmental Policy OR ECON 231 Environmental Economics (F23, S24, F25, QFR)
_____	BIOL 103 Environmental Biology OR BIOL 200 Evolution and Ecology (S24, QFR)
_____	CHEM 051 Chemistry and the Environment (F23, S24, QFR) OR CHEM 101 Structure & Reactivity (F23, F24, QFR) OR CHEM 102 Chemical Principles (F23, S24 QFR) OR CHEM 103 Topics General Chemistry (QFR)
_____	GEOS 120 Earth's Environments (F23, QFR) (LAB), GEOS 121 Geology of National Parks (F23), 4 credits OR GEOS 122 Natural Hazards (24,25), OR GEOS 123 Geology of Natural Resources OR GEOS 124 Earth Science and Social Justice (S24, QFR) (LAB), OR GEOS 127 Sustainability and Earth Science 4 credits (F24, S25), OR GEOS
_____	GEOS 128 Water and Society, 4 credits (F24, S25) OR GEOS 129 Introduction to Hydrology, 4 credits (F24, S25) GEOS 380 Great Lakes Limnology

Please list the course number of NS course with a lab _____

II. SOCIAL SCIENCE & HUMANITIES ELECTIVES

Majors must take 3 full courses from the list below in either Social Science or Humanities.

Social Science (SS) Courses:

Taken	To be Taken
_____	ENVS 203 Environmental Anthropology (F23, CD)
_____	ENVS 222 Local vs. Global: Environmental Issues Beyond Borders (S24, CD)
_____	ENVS/CAST 223 Surviving America: Introduction to Native American and Indigenous Studies (S24, CD)
_____	ENVS/ECON 231 Environmental Economics (F24, 25, QFR) (<i>if you have also taken ENVS 208</i>)
_____	ENVS 322 Energy and Society (F24, S25)
_____	ENVS 323 Global Environmental Politics (F24, S25)
_____	ENVS 333 Supernature (S24, CD)
_____	ENVS 324 Natural Resources and Conflict (F24, S25)
_____	ENVS/ECON 332 Energy Economics ((F24, S25) QFR)
_____	ENVS/CAST 339 Indigenous Activism, Environmental Justice, and the State (F23, F24, CD, W-Int)
_____	ENVS 354 Practicum in Ecological Communication (F21)
_____	ENVS 360 Migration, Refugees & Resilience (CD)
_____	ENVS/CAST 385 Indigenous Nations, Treaty Rights, and the Great Lakes (S24, CD, W-Int)
_____	ENVS 390 Sustainable Cities (F23)
_____	ENVS/ECON 431 Seminar in Sustainability in Agriculture (S24)
_____	ENVS/ECON 432 Seminar in Energy & Environmental Economics (F24, S25, QFR)
_____	ENVS/ECON 436 Seminar in Energy & Environmental Economics (F24, S25, QFR)
_____	ANTH 212 Ecological Perspectives on Small-Scale Societies (F23, CD)
_____	ANTH 436: Food, Health, and Culture (F24, S25)

_____	_____	PSYC 308 Advanced Methods in Community Based Social Marketing (F23)
_____	_____	SOCI 241 American Urbanism: From Hometown to Smogtown (F24, S25, CD)
_____	_____	SOCI 284 Environmental Sociology (F24, S25)
_____	_____	SOCI 438 Coal, Communities and Culture (F23)

Humanities (HU) Courses:

<u>Taken</u>	<u>To be Taken</u>	
_____	_____	ENVS 218 Dissent (F24, S25)
_____	_____	ENVS 219 Climate Change: Ethics, Equity, Narratives (24-25)
_____	_____	ENVS 230 Environmental Justice and Local Knowledge (F24, S25)
_____	_____	ENVS/CAST 302 American Agricultures (F24, S25)
_____	_____	ENVS 333 Supernature (S24, CD)
_____	_____	Creative Writing 248: Climate Nonfiction
_____	_____	DANC 203 Somatic Landscapes (S24)
_____	_____	EAST 249 Green Japan: Nature in Japan's Arts & Literature (S24)

III. NATURAL SCIENCE ELECTIVE

Majors must take 1 full or 2 half courses from the list below:

<u>Taken</u>	<u>To be Taken</u>	
_____	_____	ENVS 316 Ecosystem Ecology and Climate Change (F24, QFR, Research Methods)
_____	_____	ENVS 336 Practicum in Agroecology at the George Jones Farm, Part 1 (S24, 2NS)
_____	_____	ENVS 337 Practicum in Agroecology Part 2 (F23, 2NS)
_____	_____	ENVS 340 Simulation Modeling and Systems Thinking (S25, QFR, Research Methods)
_____	_____	BIOL 202 * Plant Ecology (F24, S25, QFR, W-Adv)
_____	_____	BIOL 323 * Plant Systematics (S24, 2NS) (LAB)
_____	_____	BIOL 335 Mycology (LAB) (F23)
_____	_____	BIOL 411 * Seminar: Conservation Biology (F24, S25, W-Adv)
_____	_____	CHEM 208 Environmental Chemistry (F23, QFR) 4 credits
_____	_____	CHEM 211 Analytical Chemistry (F23, QFR)
_____	_____	GEOS 111 Glaciers and Climate Change (F24, S25 QFR)
_____	_____	GEOS 120 Earth's Environments (LAB) List additional required NS Lab course (F23)
_____	_____	GEOS 122 Natural Hazards 2NS) 4 credits (F24, S25)
_____	_____	GEOS 123 Geology of Natural Resources (F24, S25) QFR)
_____	_____	GEOS 124 Earth Science and Social Justice – (Lab) (S24)
_____	_____	GEOS 152 Soils and Society (F24, S25, QFR)
_____	_____	GEOS 161 Oceanography (S25, QFR)
_____	_____	GEOS 204 * Evolution of the Earth (S4, QFR) (LAB)
_____	_____	GEOS 335 Interdisciplinary Geographic Information Systems and Cartography (F23, QFR)
_____	_____	GEOS 380 Great Lakes Limnology (S25)
_____	_____	NSCI 108 Environmental Chemicals in Human Health (F24, S25)
_____	_____	NSCI 175 Ecological impacts of invertebrate neurobiology (F24, S25, NS)
_____	_____	PHYS 068 Energy Science and Technology (S24, QFR)
_____	_____	PHYS 103 Elementary Physics I (F23, F24, QFR)
_____	_____	PHYS 110 Mechanics and Relativity (F23, F24, QFR)

* single course prerequisite needed

IV. RESEARCH METHODS ELECTIVE

Majors must take 1 full course from the list below. CHEM 211, ENGL 223, ENGL 255, ENVS 316, ENVS 340, GEOS 235, and PSYC 308 may also count as SS/HU, or NS electives from the above lists.

<u>Taken</u>	<u>To be Taken</u>
_____	ENVS 230 Environmental Justice and Local Knowledge (F24, S25)
_____	ENVS 316 Systems Ecology (F24, QFR, NS))
_____	ENVS 340 System Models: System Thinking (S25, QFR, NS)
_____	ARTH 299 Methods of Art History (S24, S25)
_____	CAST 200 Theories and Methods (F23)
_____	CHEM 211 Analytical Chemistry (F23, QFR)
_____	ECON 255 Introduction to Econometrics (F23, S24)
_____	ENGL 223 Meaning and Being: Nature in 19th-Century American Narrative (F24, S25, W-INT)
_____	ENGL 255 Nature in Early American Literature (F24, S25, HU)
_____	ENGL 299 Introduction to Adv. Study of Literature (F24, S25, W-INT)
_____	GEOS 335 Interdisciplinary Geographic Information Systems and Cartography (F23, QFR)
_____	GSFS 305 Feminist Research Methodologies (F23)
_____	HIST 299 Introduction to Historical Methods (F23, S24, W-ADV)
_____	PHIL 201 Reason and Argument (S24)
_____	POLT 205 Political Research and Analysis (S24)
_____	PSYC 200 Research Methods I (F23, QFR)
_____	PSYC 308 * Advanced Methods in Community Based Social Marketing (F23)
_____	SOCI 301/302 Social Research Methods (F23, QFR)
_____	STAT 113 Introduction to Statistics (F23, S24, QFR)
_____	STAT 114 Introduction to Biostatistics (F23, S24, QFR)
_____	STAT 205 Statistics and Modeling (F23)

* *Half-credit course. Must take both parts to earn full R.M. credit.*

ES Major Guidelines

- At least five full courses completed for the ES major must be taken at Oberlin; no more than three study away or transfer courses will count towards the ES major. Students planning to study away for more than a single semester must get approval from their advisor and the Program chair.
- Courses cross-listed in two departments (e.g., ENVS 208 and POLT 208) can be taken in either department.
- First year seminar program (FYSP) courses do not count toward the ES major.
- Courses in which a student has earned a letter grade lower than a C- cannot be used to fulfill the requirements of the major. Courses taken with a P/NP grade can be counted towards the major as long as the student receives a P grade.
- A maximum one full course of combined private reading (ENVS 995) and independent research or honors (ENVS 501) can be counted towards the ES major. The faculty sponsor, in consultation with the ES program director, may determine whether a given private reading can count as a NS or SS/HU elective.
- Students who earn a 5 on the AP Environmental Science exam are exempt from taking ENVS 101 but they must take another SS/HU elective from the approved list. AP courses substituting for introductory courses in NS or Economics Departments may count towards the required or elective courses in ES (see those departments for further explanation of their AP policies).
- If ES requirements change after the major is declared, students can choose to comply with either the requirements in place at the time of their declaration of major or the revised requirements.
- If a student takes both ENVS 208 and ECON 231, then ENVS 208 will count towards core requirement and ECON231 will count towards the Social Science Elective.
- Any course that fulfills the research methods elective AND is also approved as and SS/HU, or NS elective can be counted for both requirements. This double-counting only applies to courses listed on the ES Majors Checklist under 'Research Methods Elective,' and would allow completion of the ES major with 10 courses (instead of 11).
- Each ES major must take at least one of their SS/HU or NS elective courses at the 300/400 level. Ideally, this course will be related to the student's pathway.

ES Student Pathway Approval Timeline

Milestone	Draft due to Advisor	Deadline for upload of Approved Document	Year
Area of Interest selected		Time of major declaration	
Pathway Proposal ¹	March 15	April 1	Second
Capstone Proposal ²	March 15	April 1	Third
Pathway Report ³	March 15	April 1	Fourth

¹ If declaring the ES major after April 1 of the second year, Pathway Proposals are due at the time of declaration.

² If declaring the ES major after April 1 of the third year, Capstone Proposals are due at the time of declaration.
A capstone proposal must be approved no later than the project is undertaken!

³ Pathway Report would be due no later than December 1 if graduating in the fall.

Students should discuss drafts of their Proposals and Reports with their advisors **well ahead** of the above-stated due deadlines. Once finalized, students must submit their advisor-approved documents on the ES Blackboard site. This information will then be entered into the student's academic record and show up on Degree Works.

Pathway Focus Area:

Student Signature: _____ Date: _____
(name typed in full will serve as your signature)

Advisor Signature: _____ Date: _____
(name typed in full will serve as your signature)

ES Director Signature: _____ Date: _____
(name typed in full will serve as your signature)

Note: Courses not listed in the main checklist (often taught by visiting faculty) can be found on the **ES Checklist Addendum**

Name: _____ T Number: _____

ADDENDUM COURSES THAT FULFILL ES MAJOR REQUIREMENTS 2023-24 updated 8-24-23

Courses are placed on this list because they are onetime offerings, are no longer offered, or are not regularly offered. These courses nevertheless satisfy ES degree requirements. If you have taken one of these, please write it in the appropriate space on your checklist or attach a copy of this sheet to your major checklist that requires your advisor's signature.

COURSES TAUGHT BY PERMANENT FACULTY

Social Science and Humanities electives:

Taken To be taken

- | | | |
|-------|-------|--|
| _____ | _____ | ENVS/RUSS 170 Beekeeping: A Cultural and Environmental History (TBD, 2HU) |
| _____ | _____ | ENVS 180 Introduction to Rural Environments (S23) |
| _____ | _____ | ENVS 215 Introduction to Indigenous Peoples and the Environment (CD) |
| _____ | _____ | ENVS 228 Global Indigenous Health (S21, TBD, CD) |
| _____ | _____ | ENVS 244 Society and Environment in Latin America and the Caribbean (S21, TBD, CD) |
| _____ | _____ | ENVS 246 Practicum in Community Climate Resilience Planning in Oberlin (S21, CD) |
| _____ | _____ | ENVS 301 Community Engagement and Public Humanities (2HU, TBA) |
| _____ | _____ | ENVS 315 Indigenous Peoples and Climate Change (S21, TBD, CD) (prev. ENVS 225) |
| _____ | _____ | ENVS 330 Africatown Immersion (TF18, BD) |
| _____ | _____ | ENVS/ECON 331 Natural Resource Economics (TBD, QFR) |
| _____ | _____ | ENVS 342 Political Ecology (TBD, W-ADV, CD) |
| _____ | _____ | ENVS 327 Indigenous Environmentalism (F20, TBD, CD) |
| _____ | _____ | ENVS 430 Environmental Justice Methodologies (TBD) |
| _____ | _____ | ENVS 957 Climate Change and London (F21, London) |
| _____ | _____ | ENVS 958A & 958B Climate & Community Resilience (F21, London) |
| _____ | _____ | ENVS/PSYC 958 Climate change and community resilience in London (F22, London) |
| _____ | _____ | ANTH 211 Learning Indigenous Material Culture (QFR) |
| _____ | _____ | ANTH 211 Learning Indigenous Material Culture (QFR) |
| _____ | _____ | CRWR 2140C/214: Poetry and Place |
| _____ | _____ | DANCE 239OC/239: Site-Specific Dance |
| _____ | _____ | ENGL 141 Rivers in American Literature (W-INT) |
| _____ | _____ | ENGL 223 Meaning and Being: Nature in 19th-Century American Narrative (W-INT) |
| _____ | _____ | ENGL 255 The Concept of Nature in Early American Literature |
| _____ | _____ | ENGL 366 Nature and Transcendentalism (W-INT) |
| _____ | _____ | ETHN 212 Music and Ecology (S19) |
| _____ | _____ | PHIL 225 Environmental Ethics (F16, W-INT) |
| _____ | _____ | PSYC 440 Seminar in Environmental Psychology (S22) |
| _____ | _____ | PSYC 930 Building Resilience in the Face of Climate Change through Conflict Resolution (F22, London) |
| _____ | _____ | RUSS 240 Wild Russia (TBD, CD) |

Natural Science electives:

- | | | |
|-------|-------|---|
| _____ | _____ | ENVS 256 Practicum in Green Building Technology (Su21) |
| _____ | _____ | ENVS 338 Practicum in Agroecology Summer (Su21) |
| _____ | _____ | ENVS 957 Climate Change and London: Vulnerability, Mitigation, Adaptation & Resilience (London) |
| _____ | _____ | BIOL 087 Crops and Climate: Biology for a Sustainable World (NO LONGER OFFERED) |
| _____ | _____ | GEOL 115 Coral Reefs: Biology, Geology, and Politics (NO LONGER OFFERED) |

_____	_____	GEOL 121 Geology in our National Parks (F22)
_____	_____	GEOL 130 Lessons from Life History (S20)
_____	_____	GEOL 235 Applied GIS (NO LONGER OFFERED)
_____	_____	MATH 305 The Mathematics of Climate Modeling (S22, QFR)
_____	_____	NSCI 103OC Environmental Toxicology and Global Health (F22)

Research Methods electives:

<u>Taken</u>	<u>To be taken</u>	
_____	_____	ENVS 209OC Environmental Repair (F20)
_____	_____	GEOL 234 GIS for Natural and Social Sciences (NO LONGER OFFERED)
_____	_____	GEOL 235 Applied GIS (NO LONGER OFFERED)

COURSES TAUGHT BY VISITING FACULTY

Social Sciences and Humanities electives:

<u>Taken</u>	<u>To be taken</u>	
_____	_____	ENVS 102 Introduction to QGIS (F23)
_____	_____	ENVS 120 AgriFood Systems in Transition (F21)
_____	_____	ENVS 180 Intro to Rural Studies (S23)
_____	_____	ENVS 202 Introduction to Urban Studies (F23)
_____	_____	ENVS 203 Environmental Anthropology (F23)
_____	_____	ENVS 220 Global Agriculture and Food Production (Su21)
_____	_____	ENVS 227 Food and Social Justice (F23)
_____	_____	ENVS/ECON 434: Seminar in Sustainability in Agriculture (S24)
_____	_____	ENVS/CON 436 Seminar: Valuation of Environmental Amenities (S22)
_____	_____	ANTH 217 Music and the Environment in Northeast Asia (F20)
_____	_____	ANTH 231 Environmental Anthropology (CD, W-INT)
_____	_____	ANTH 254 Animal Biocapital (F18)
_____	_____	ANTH 258 Environment and Revolution in the Middle East (S15)
_____	_____	ANTH 317 Qualitative Methods in Environmental Anthropology (S22)
_____	_____	ANTH 417 Writing More-than-Human Worlds (F21)
_____	_____	CAST 267 Nature of Sexualized Identities (TBD, CD)
_____	_____	HIST/EAST 295 Chinese Earth and Environment (S20, CD)
_____	_____	PHIL 241 Food Ethics (S19)
_____	_____	POLT 213 The Politics of Oil (F21)
_____	_____	POLT 256 Environmental Political Theory (TBD)
_____	_____	POLT 312 Mastering Nature: The Politics of Science and Tech. in the Middle East (TBD, CD)

Natural Science electives:

<u>Taken</u>	<u>To be taken</u>	
_____	_____	ENVS 356 Practicum in Resource Analysis and Conservation in the Buildings (S18)
_____	_____	CSCI 190 How to Model It (2NS, TBD)
_____	_____	GEOL 122 Natural Hazards (F19)
_____	_____	GEOL 115H Coral Reefs: Biology, Geology, and Politics (2NS, S22)

Research Methods electives:

<u>Taken</u>	<u>To be taken</u>	
_____	_____	ENVS/PSYC 958 Climate change and community resilience in London (F22, London)
_____	_____	ANTH 317 Qualitative Methods in Environmental Anthropology (S21)
_____	_____	ANTH 417 Writing More-than-Human Worlds (F21)