

Environmental Science and Management Minor in Sustainability

Description of Minor in Sustainability

The goal of the Minor in Sustainability is to offer Portland State undergraduate students an understanding of the multidisciplinary concepts and practices integral to sustainable living. The Minor has two primary components. The first is to educate the students in a balanced and rigorous manner about the various concepts, theories and methods related to sustainability. The second is to have the students work with a community partner on a project applying sustainability concepts and measures.

The Minor offers an integrated series of lower and upper division courses that comprise a multidisciplinary study of the environmental, social and economic dimensions of sustainability. Students receiving the minor will complete 7 linked classes:

1. Environmental sustainability
2. Regulations/Policy and Sustainability
3. One course dealing with Economic sustainability
4. One course dealing with Social sustainability
5. One course dealing with Environmental systems
6. Focus elective
7. A service-learning course focused on sustainability

Curriculum

To obtain a minor in sustainability a student must complete at least 29 credits (at least 15 of which must be taken in residence at PSU), to including the following:

UNST 224 – Environmental Sustainability	4
ESM 222 – Applied Environmental Studies: Policy Considerations	4

Upper-division credits to include at least a total of four courses from the following three categories. Students must choose at least one course from each category.

Economics/Business –

EC 332 – Environmental Economics	4
EC 430 – Resources and Environmental Economics	4
EC 444 – Economics of Green Power	4
ESM 433 – Natural Resource Economics	4
ESM 434 – Business Environmental Management Economics	4
ESM 443 – Global Environmental Economics	4
USP 490 – Green Economics and Sustainable Development	3

Social Issues –

ARCH 367 – Fundamental of Environmental Design	4
HIST339 – Environment and History	4
GEOG 345 – Resource Management	4
GEOG 346 – World Population and Food Supply	4
GEOG 347 – Environmental Issues and Action	4
GEOG 442 – Sustainable Cities	4
GEOG 465 – Tuscany: Sustainability in City and Country	4
PHL 310 – Environmental Ethics	4
PS 319 – Politics of the Environment	4
SCI 321 – Energy and Society I	4
SCI 322 – Energy and Society II	4
SOC 341 – Population Trends and Policy	4
SOC 465 – Environmental Sociology	4
USP 313 – Urban Planning: Environmental Issues	4
USP 419 – Population and Society	4
USP 425 – Community and the Built Environment	4

Environmental Systems –

ESM 355 – Understanding the Environment	4
ESM 356 – Understanding Environmental Conservation	4
ESM 420 – Ecological Toxicology	4
ESM 424 – Wetland Ecology and Regulations	4
ESM 426 – Ecology of Stream and Rivers	4
ESM 428 – Urban Ecology	4
ESM 445 – Old-Growth Forest Ecology	4
SCI 331 – Urban Air Pollution I	4
SCI 332 – Urban Air Pollution II	4
SCI 335 – Water and the Environment I	4
SCI 336 – Water and the Environment II	4
SCI 352 – Science and Policy of Climate Change	4

In addition, students must choose one course from the following category:

Sustainable Community Service Learning Capstone

UNST 421 – A list of acceptable capstone courses will be prepared for each year.	<u>6</u>
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29-30

Note: Students earning the Minor in Sustainability may NOT also earn the Sustainable Urban Development Minor offered by the Nohad Toulan School of Urban Studies and Planning unless the courses presented for the minors differ by at least 12 credits.