

INTERDISCIPLINARY ARTS & SCIENCES

Course List for Environmental Studies

For students entering Autumn 2008 or later

The Bachelor of Arts in Interdisciplinary Arts and Sciences with a concentration in Environmental Studies offers students an interdisciplinary perspective on environmental problems. While receiving a strong background in environmental science, students will be exposed to a broad range of interdisciplinary course work that examines the legal, economic, social, literary, historical, and philosophical perspectives on both local and global environmental sustainability issues. This major will prepare students interested in pursuing diverse and contemporary careers such as environmental law, policy, management, planning, journalism and teaching in the public, private, academic, and non-profit sectors. A major component of the Environmental Studies major is a capstone experience that emphasizes service to the community while exposing the student to potential future employers and positions.

Admission to Interdisciplinary Arts and Sciences is open to those students who have:

- 40 transferable college credits
- English composition
- Intermediate algebra (in college or high school)
- 2.0 GPA

Preparatory courses

25-28 credits depending on where credits were earned. These can be taken at UW Tacoma or transferred from another school. UW Tacoma courses that fulfill this preparatory coursework are listed below.

Preparatory courses for Environmental Studies	Minimum grade	UWT equivalent
One quarter ecology-focused biology with lab	1.5	TESC 110 or 120
One quarter chemistry with lab	1.7	TESC 141
One quarter geosciences with lab	2.0	TESC 117, 241
One quarter statistics	2.0	TQS 110
One quarter pre-calculus	2.5	TQS 120

Additionally, students must be **computer literate**, which is defined as the ability to use word processing, spreadsheet, presentation and communication software. Workshops are available for students with deficiencies in any of these areas.

Preparatory courses must have been completed within the last 5 years. If they were completed before that time frame, please consult an IAS Adviser. See faculty, adviser, or website for specific transfer courses that are acceptable.

Concentration graduation requirements

Requires 70 credits for concentration + 25 credits for preparatory courses = 95 credits

■ **16 credits minimum: Environmental Science Core**

(all four courses required)

TESC 310 Environmental Research Seminar – to be taken in the first Autumn of enrollment in the junior year (3)

One Conservation Biology course: TESC 232 Issues in Biological Conservation (5/6) **OR**
TESC 332 Conservation Biology in Practice (6)

TESC 345 Pollution and Public Policy (5/6)

TESC 410 Environmental Science Senior Seminar – to be taken in the last Spring of enrollment after or concurrent with Capstone experience (3)

■ **5 credits: Environmental Writing Core**

(choose one from the following list)

TWRT 272 Intermediate Academic Writing (5)

TWRT 374 Advanced Disciplinary Writing: Humanities, Natural Sciences & Social Sciences (5)

TWRT 465 Studies in Writing: Writing for Social Change (5)

■ **3 credits minimum: Capstone Experience**

(TESC 496 Internship, TESC 497 Senior Thesis, TESC 499 UG Research, or the complete GIS or REN certificate program. Planned with faculty adviser; may span more than one quarter.)

■ **16 credits minimum: Environmental Science Electives**

[TESC courses (200-level and above), at least one of which must be a laboratory course (6 credits) or a field course (7 or more credits). Some courses are not offered as labs every time (5/6 credit courses); check the Registration Guide for credits. **Other 200-level or above TESC courses are applicable here**, but are not included in this list because they require additional lower-division prerequisite courses. If an Environmental Studies student meets the prerequisites for these other TESC courses, they can count here.]

TESC 202 Plant Biology and Ecology (5)

TESC 215 Meteorology (5/6)

TESC 221 The Science of Environmental Sustainability (5)

TESC 227 Earth History (5)

TESC 232 Issues in Biological Conservation (5/6)

TESC 236 Plants and People: the Science of Agriculture (5)

TESC 239 Energy and the Environment (5)

TESC 240 Human Biology and Environmental Interactions

TESC 241 Oceanography (5/6)

TESC 243 Geography of the Physical Environment (5)

TESC 247 Maritime History and Science in the Pacific Northwest (5)

TESC 302 Ecology of Mt. St. Helens (7)

TESC 304 Tropical Ecology and Sustainability (5)

TESC 317 Geology, Landscape, and Culture (12)

TESC 318 Biogeography (5/6)

TESC 319 Water Quality Concepts and Watershed Studies (6)

TESC 321 Soils and Environmental Applications (5)

TESC 332 Conservation Biology in Practice (6)

TESC 337 Environmental Geology (6)

TESC 343 The Atmosphere and Air Pollution (6)

TESC 349 Research at Sea (10)

TESC 362 Introduction to Restoration Ecology (7)

TESC 402 History and Ecology of Biological Invasions (5)

TESC 404 Costa Rica Field Studies: Ecology and Community (10)

TESC 408 Marine Plankton (6)

TESC 415 Sedimentology (6)
TESC 417 Field Geology (7)
TESC 422 Evolution (5/6)
TESC 430 Environmental Modeling (6)
TESC 431 Water Resources and Pollution (7)
TESC 432 Forest Ecology (7)
TESC 434 Biology, History, and Politics of Salmon in the Pacific Northwest (5/6)
TESC 435 Limnology (7)
TESC 437 Stream Ecology (6)
TESC 438 Environmental Biology: Marine Invertebrates (6)
TESC 445 Estuarine Field Studies (7)

■ **5 credits: Environmental Foundations**

(choose one from the following list)

TCXUS 477 Nature and Environment in American Literature
TIBCG 363 Philosophical Perspectives on the Environment
TIBCG 456 Environmental Ethics

■ **5 credits: Communication of Science and Environmental Issues**

(choose one from the following list, in addition to Environmental Writing Core)

TWRT 374 Advanced Disciplinary Writing: Humanities, Natural Sciences & Social Sciences (5)
TWRT 465 Studies in Writing: Writing for Social Change
T BUS 310 Effective Managerial Communications
TCOM 275 Writing, Reporting, and Editing for the Mass Media
TCOM 347 Television Criticism and Application
TCOM 348 Non-fiction Writing for Television
TCOM 349 News Writing
TCOM 350 Editing and Design for Print Media
TCOM 387 Writing for Public Relations
TCOM 482 Investigative Reporting
TCOM 486 Feature Writing for Print Media
TCSIUS 451 Community Organizations and the Non Profit Sector
TCXG 382 Labor, Globalization and Art
TCXG 402 Eco-Art: Art Created in Response to the Environmental Crisis
TCXG 407 Art and the Public
TCXG 479 Principles of Public Relations
TCXG 484 Writing Creative Non-fiction
TGIS 311 Maps and GIS
TIBCG 448 Arts Administration
TIBCG 449 Museum Studies
TMGMT 314 Interpersonal Skills

■ **5 credits: Environmental Policy, Politics and Law**

(choose one from the following list)

TCSIUS 438 Environmental Law
TEST 333 Environmental Policy Application and Compliance
TEST 335 Environmental Impact Analysis

TPOLS 202 Intro to American Politics
TPOLS 203 Introduction to International Relations
TURB 323 Sustainable Urban Development Policies
TURB 415 Urban Government and Organizations

■ **5 credits: Economics and Economic Policy**

(choose one from the following list)

TECON 100 Principles of Economics
T FIN 220 Introduction to Microeconomic Theory (or TECON 200)
TSMUS 225 Economics as a Way of Thinking
TSMUS 421 Environmental Policy

■ **10 credits: Urbanization and Social Issues**

(choose from the following list)

TCSIG 165 Introduction to Sociology: Developing the Sociological Imagination
TCSIG 265 Race and Ethnicity in the United States
TCSIG 445 The Metropolis
TCSIIN 342 Third World Cities
TCSIIN 436 Rural Societies and Development
TCSIIN 438 History of Urbanization and the Environment
TCSIUS 335 Social Class and Inequality
TCSIUS 443 Ethnicity and the Urban Landscape
TEST 221 Environmental History: Water
TEST 332 A Natural History of Garbage
TEST 380/TURB 380 Study Abroad: Comparative International Perspectives on Cities and the Environment (15 cr)
TGH 303 Global Challenges
THLTH 410/TURB 410 Environmental Equity
THLTH 372 Human Health and the Environment
THLTH 485 Critical Issues in Global Health
TIBCG 437 Technology in the Modern World
TSMIN 328 Third World Problems and Prospects
TSMUS 417 Urban Problems and Policies
TURB 220 Introduction to Urban Planning
TURB 301 The Urban Condition
TURB 312 Race and Poverty in Urban America
TURB 322 Land Use Planning
TURB 323 Sustainable Urban Development Policies
TURB 326 Climate Change within the Urban Context
TURB 440 The City and Nature
TURB 445 Urban Ecology
TURB 450 Planning for Sustainability
TURB 479 Planning and Development in the Puget Sound Region (3-12 cr)

See the Environmental Studies Web site for the most current concentration options at
http://www.tacoma.washington.edu/ias/academics/ba/environmental_studies.cfm

