

Brief Course Outline

Course Title: ES1021F

Course Number and Section:

ENVIRSCI

1021F 550

Instructor Name(s): Vogel

Instructor Email(s): bvogel@uwo.ca

Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL is the official and authoritative source of information for the course.

Course Description:

EnvirSci 1021 – Environmental Science & Sustainability – An overview of the science underlying key environmental issues (e.g. climate change, loss of biodiversity and ecosystem function, air and water pollution, and resource use) and how each issue impacts environmental sustainability from the local to global scale. Extra Information: 3 lecture/tutorial hours.

Learning Outcomes:

Develop ecological literacy in the context of local and global ecosystems and the changes they face

Survey earth's different biomes and contrast current challenges and sustainable options for future development

Cultivate systems thinking recognizing that environmental issues are multi-faceted and multi- scaled

Examine and understand the connection between human actions and their environmental consequences

Sharpen critical thinking skills as applied to solving real world problems

Gather, organize, analyze and synthesize information about a critical environmental issue of research interest and create a professional report

Use the skills developed in this course to make informed and considerate life choices regarding environmental issues, ethics and responsibility

Textbooks and Course Materials:

REQUIRED: McMillan Achieve Learning Management System + E-Textbook ("Environmental Science for a Changing World" Karr et al.) COST: ~100 CAD TBD pending UWO Bookstore & McMillan Publishing 2025 Pricing.

For more information:

<https://www.macmillanlearning.com/college/us/product/Scientific-American-Environmental-Science-for-a-Changing-World-Digital-Update/p/1319496644?>

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Methods Of Evaluation:

Assignment	Due Date mm/dd/yy	Weight - %
Weekly Online Quizzes		15
Annotated Bibliography		10
Final Report		20
Midterm Test		20
Final Exam		30
Attendance/Participation		5

In solidarity with the Anishinaabe, Haudenosaunee, Lūnaapéewak, and Chonnonton peoples on whose traditional treaty and unceded territories this course is shared.

Monday, August 18, 2025