

| GEOG 5802 Globalization and the Environment – Autumn 2024 | |
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| Instructor | Dr. Harvey J. Miller My role is to design and deliver the course and answer questions about its content. I will also supervise the weekly quizzes, and grade your assignments. I am also responsible for the final grades assigned. |
| Lectures | Mondays, Wednesdays 12:45PM – 2:05PM Derby 1080 |
| Office hours | Mondays 10AM - 11:30 AM; Wednesdays 2:15PM - 3:30PM or by appointment Derby Hall 1176 Note – I may need to cancel office hours occasionally due to scheduling pressures. I will announce any changes via CarmenCanvas. |
| Phone | (614) 292-5207 |
| Email | miller.81@osu.edu |
| Blog | u.osu.edu/miller.81 This webpage describes my research, teaching and outreach activities. I also post my published papers with links. |

| Course description and format |
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| <p>Globalization refers to technological, economic, institutional, cultural and geopolitical interlinking of diverse societies across the world space, enabling interactions through trade, finance, business, migration, culture empire and war (Sachs 2019, chp. 1). Globalization has existed as long as humanity has existed, it is intertwined with modernization - the rise of instrumental rationality, science, technologies, the modern state and industrialization since the 1500s CE. However, it accelerated dramatically in the 20th century, generated unprecedented change and transformation across spatial scales from local to global. A major consequence has been impacts on the physical and biological Earth systems at all scales, to the point that we are living beyond the carrying capacity of these systems.</p> <p>In this class, we will learn about the long and short histories of globalization and its impacts on the environment. We will also look forward to the future and discuss how we can achieve sustainable development that brings opportunities to all while staying within planetary limits.</p> <p>This is an in-person class with lectures. You are expected to attend the regular lectures and participate in the class discussions.</p> |

| Main texts and other readings |
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| The majority of the readings will come from the following texts: |

- **(C&E)** Christoff, P. and Eckersley, R., 2013. *Globalization and the Environment*. Rowman & Littlefield Publishers.
- **(Sachs AG)** Sachs, J.D., 2019. *The Ages of Globalization: Geography, Technology, and Institutions*. Columbia University Press.
- **(Sachs ASD)** Sachs, J.D., 2015. *The Age of Sustainable Development*. Columbia University Press.

Information on the availability of these books is available at the CarmenCanvas website. Other readings will be assigned via CarmenCanvas.

Examinations

There will be four non-comprehensive examinations. Exams are open book and administered via CarmenCanvas. This will occur during regular class time on the dates indicated, but not in the classroom: you must take the exam on your own computer or device. It is the student's responsibility to ensure they have a stable internet connection and a place to take the exam. The instructor will be monitoring the exam as it occurs and will be available via CarmenCanvas message or email. Each examination will be timed: available only during the designated class time, and with a time limit.

Exam format will be multiple choice, matching, true/false, short and long answers.

Term project

Choose an issue related to globalization and environment and write a paper on it in which you apply class discussions / course materials (facts and concepts). Do not only report on the issue (i.e. describe it). This is your opportunity to demonstrate mastery over what we discussed in class and the course material: Show that you can apply ideas and information we have covered to issues that we have not covered directly.

The term project will consist of several assignments as milestones to help you develop your research topic for the term project due at the end of the semester. The CarmenCanvas course website provides details on these assignments and their due dates. Late assignments will be penalized by 10% per day late, and only accepted up to a maximum of 4 days late. The final paper will **not** be accepted if late. If you anticipate having conflicts, they are expected to discuss with me ahead of time.

Attendance and participation

You are expected to attend class and participate in discussions and the occasional in-class assignment; this will be part of your final grade. If you must miss class due to illness or some unforeseen or unavoidable conflict, you must contact me for an excused absence. Be prepared to provide documentation for your unavoidable absence if requested.

Evaluation

Your final grade will be based on the following:

- Exams (total): 40%
- Term project (total): 40%
- Attendance and participation: 20%

Grading scale. I use the OSU standard scale to assign the final course grade. I use the rules of scientific rounding for borderline cases – e.g., 92.5% and above is rounded up to 93%.: A 93-100%; A- 90-92%; B+ 87-89%; B 83-86%; B- 80-82%; C+ 77-79%; C 73-76%; C- 70-72%; D+ 67-69%; D 60-66%; E 0-59%

Other interactions

Outside of lectures and office hours, there are several channels for interacting with the instructor and your fellow students, both asynchronously and in real-time:

- **Announcements** – I will be posting regular announcements on topics such as issues with the course, relevant university and community events and activities, and transportation in the news. You can reply to these announcements with questions and comments.
- **Discussions** - There is a Canvas Discussion forum for you to post questions and comments on anything related to sustainable mobility. Also feel free to share news items, articles, and websites with the class. Rules: be relevant, professional and kind. Always.
- **Office hours** – I will be available in real-time during the designated office hours above. I will also monitor Canvas Chat. If you cannot make office hours please contact me for an appointment. Also contact me for an appointment if you need to discuss individual matters or issues.

Policies and Expectations

Disability services. The university strives to maintain a healthy and accessible environment to support student learning in and out of the classroom. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion.

If you are isolating while waiting for a COVID-19 test result, please let me know immediately. Those testing positive for COVID-19 should refer to the Safe and Healthy Buckeyes site for

resources. Beyond five days of the required COVID-19 isolation period, I may rely on Student Life Disability Services to establish further reasonable accommodations. You can connect with them at slds@osu.edu; 614-292-3307; or slds.osu.edu.

Academic misconduct. It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

Generative AI guidance and policy. Generative AI, such as ChatGPT, can be a useful tool in learning and research. However, it also has known problems, including:

- **Hallucinations:** generative AI makes up content (including sources). Submitting work w/ such errors constitutes academic misconduct.
- **Biases** (e.g., gender, race): Internet discussion boards and social media make up a large part of the training data for generative AI.
- **Superficial knowledge:** Generative AI only predicts patterns; it does not know anything. The content may seem slick, but it is vapid.
- **Ownership:** The companies that create these tools claim the right to use anything you feed into them.

All students have important obligations under the Ohio State University Code of Student Conduct to complete all academic and scholarly activities with fairness and honesty. Our professional students also have the responsibility to uphold the professional and ethical standards found in their respective academic honor codes. Specifically, students are not to use “unauthorized assistance in the laboratory, on field work, in scholarship or on a course assignment” unless such assistance has been authorized specifically by the course instructor. In addition, students are not to submit their work without acknowledging any word-for-word use and/or paraphrasing” of writing, ideas or other work that is not your own. These requirements apply to all students — undergraduate, graduate, and professional.

In this course, you may use generative AI and AI assisted technologies for your term project under the following limited conditions (adapted from the scientific journal *Computers, Environment and Urban Systems*):

- Generative AI technologies may only be used in the writing process to improve the readability and language of the manuscript, not as a substitute for your original writing.

- The technology must be applied with human oversight and control; you should carefully review and edit the result, as AI can generate authoritative-sounding output that can be incorrect, incomplete or biased. You are ultimately responsible and accountable for the contents of the work.

- You **must** include the following statement with your work:
 - During the preparation of this work the author used [NAME TOOL / SERVICE] in order to [REASON]. After using this tool/service, the author reviewed and edited the content as needed and takes full responsibility for the content of the final product.

You may not use generative AI for the examinations under any circumstance.

Suspected violations of this policy will be referred to the Committee on Academic Misconduct for investigation and possible sanctions.

Professionalism and respect. Our primary joint responsibility in this class is to create a productive learning community. You are expected to conduct yourself with professionalism and respect in your interactions with other students and the instructor in your online behavior at the CarmenCanvas site.

Wellness. As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing.

If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling 614- 292-5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available through the 24/7 National Suicide Prevention Hotline at 1-800-273- TALK or at suicidepreventionlifeline.org

Religious accommodations. Ohio State has had a longstanding practice of making reasonable academic accommodations for students' religious beliefs and practices in accordance with applicable law. In 2023, Ohio State updated its practice to align with new state legislation. Under this new provision, students must be in early communication with their instructors regarding any known accommodation requests for religious beliefs and practices, providing notice of specific dates for which they request alternative accommodations within 14 days after the first instructional day of the course. Instructors

in turn shall not question the sincerity of a student's religious or spiritual belief system in reviewing such requests and shall keep requests for accommodations confidential.

With sufficient notice, instructors will provide students with reasonable alternative accommodations with regard to examinations and other academic requirements with respect to students' sincerely held religious beliefs and practices by allowing up to three absences each semester for the student to attend or participate in religious activities. Examples of religious accommodations can include, but are not limited to, rescheduling an exam, altering the time of a student's presentation, allowing make-up assignments to substitute for missed class work, or flexibility in due dates or research responsibilities. If concerns arise about a requested accommodation, instructors are to consult their tenure initiating unit head for assistance.

A student's request for time off shall be provided if the student's sincerely held religious belief or practice severely affects the student's ability to take an exam or meet an academic requirement and the student has notified their instructor, in writing during the first 14 days after the course begins, of the date of each absence. Although students are required to provide notice within the first 14 days after a course begins, instructors are strongly encouraged to work with the student to provide a reasonable accommodation if a request is made outside the notice period. A student may not be penalized for an absence approved under this policy.

If students have questions or disputes related to academic accommodations, they should contact their course instructor, and then their department or college office. For questions or to report discrimination or harassment based on religion, individuals should contact the Office of Institutional Equity.

Wellness. As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling 614--292--5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614--292--5766 and 24 hour emergency help is also available 24/7 by dialing 988 to reach the Suicide and Crisis Lifeline.

Title IX. Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the

appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator at titleix@osu.edu.

Topics and main readings. Detailed schedule and other assigned readings posted at CarmenCanvas

| Course section | Module | Lecture # | General topic | Main texts |
|------------------------|---|-----------|---|------------------------------------|
| Learning from the past | Globalization and environment in context | 1 | The ages of globalization - an overview | Sachs AG Chp 1 |
| | | 2 | Modernization, globalization and environmental change | C&E Chp 1 |
| | | 3 | A short history of globalization and the environment | C&E Chp 2 |
| | The ages of globalization and their lessons | 4 | Globalization prior to 1500 CE | Sachs AG Chp 2-5 |
| | | 5 | Globalization in the Ocean Age (1500 - 1800) | Sachs AG Chp 6 |
| | | 6 | Globalization the Industrial Age (1800 - 2000) | Sachs AG Chp 7; Sachs ASD Chp 3 |
| | | 7 | Globalization in the Digital Age (21st century) | Sachs AG Chp 8 |
| | Case studies: Climate change and biodiversity | 8 | An overheated planet | C&E Chp 3 |
| | | 9 | Remaking nature: Biodiversity in peril | C&E Chp 4 |
| | | 10 | The failure of global environmental governance | C&E Chp 5 |
| Looking to the future | Sustainable development in an unequal world | 11 | What is sustainable development? | Sachs ASD Chp 1 |
| | | 12 | An unequal world | Sachs ASD Chp 2 |
| | | 13 | Why some countries developed why others remain poor | Sachs ASD Chp 4 |
| | | 14 | Ending extreme poverty | Sachs ASD Chp 5 |
| | Sustainable development within planetary boundaries | 15 | Planetary boundaries | Sachs ASD Chp 6 |
| | | 16 | Social inclusion | Sachs ASD Chp 7 |
| | | 17 | Education | Sachs ASD Chp 8 |
| | | 18 | Health | Sachs ASD Chp 9 |

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| | | 19 | Food security | Sachs ASD Chp 10 |
| | Cities, climate change and ecosystem services | 20 | Resilient cities | Sachs ASD Chp 11 |
| | | 21 | Climate change | Sachs ASD Chp 12 |
| | | 22 | Ecosystems and ecosystem services | Sachs ASD Chp 13 |
| | | 23 | Sustainable development goals | Sachs ASD Chp 14 |

GEOG 5802 Geography and Environment
 Autumn 2024
 Mon, Wed 12:45PM-2:05PM
 Derby 1080

| Week | Date | Day | Section | Module | Lecture # Topics | Term project |
|------|------------|-----|------------------------|---|---|-------------------------------|
| 1 | 8/21/2024 | W | | Course orientation | Syllabus, texts, term projects and exams | |
| 2 | 8/26/2024 | M | Learning from the past | Globalization and environment in context | 1 The ages of globalization - an overview | |
| | 8/28/2024 | W | | | 2 Modernization, globalization and environmental change | |
| 3 | 9/2/2024 | M | | | No class - Labor Day | |
| | 9/4/2024 | W | | | 3 A short history of globalization and the environment | |
| 4 | 9/9/2024 | M | | The ages of globalization and their lessons | Exam 1 | |
| | 9/11/2024 | W | | | 4 Globalization prior to 1500 CE | |
| 5 | 9/16/2024 | M | | | 5 Globalization in the Ocean Age (1500 - 1800) | |
| | 9/18/2024 | W | | | 6 Globalization the Industrial Age (1800 - 2000) | |
| 6 | 9/23/2024 | M | | Case studies: Climate change and biodiversity | 7 Globalization in the Digital Age (21st century) | |
| | 9/25/2024 | W | | | 8 An overheated planet | Exploratory topic |
| 7 | 9/30/2024 | M | | | 9 Remaking nature: Biodiversity in peril | |
| | 10/2/2024 | W | | | 10 The failure of global environmental governance | |
| 8 | 10/7/2024 | M | Looking to the future | Sustainable development in an unequal world | Exam 2 | |
| | 10/9/2024 | W | | | 11 What is sustainable development? | |
| 9 | 10/14/2024 | M | | | 12 An unequal world | |
| | 10/16/2024 | W | | | 13 Why some countries developed why others remain poor | Specific issue |
| 10 | 10/21/2024 | M | | Sustainable development within planetary boundaries | 14 Ending extreme poverty | |
| | 10/23/2024 | W | | | 15 Planetary boundaries | |
| 11 | 10/28/2024 | M | | | 16 Social inclusion | |
| | 10/30/2024 | W | | | 17 Education | |
| 12 | 11/4/2024 | M | | | 18 Health | |
| | 11/6/2024 | W | | | 19 Food security | References and summary |
| 13 | 11/11/2024 | M | | | No class - Veteran's Day | |
| | 11/13/2024 | W | | | Exam 3 | |
| 14 | 11/18/2024 | M | | Cities, climate change and ecosystem services | 20 Resilient cities | |
| | 11/20/2024 | W | | | 21 Climate change | Paper outline |
| 15 | 11/25/2024 | M | | | 22 Ecosystems and ecosystem services | |
| | 11/27/2024 | W | | | No class - Thanksgiving Break | |
| 16 | 12/2/2024 | M | | | 23 Sustainable development goals | |
| | 12/4/2024 | W | | | Exam 4 | |

Final paper due 12/9/2024