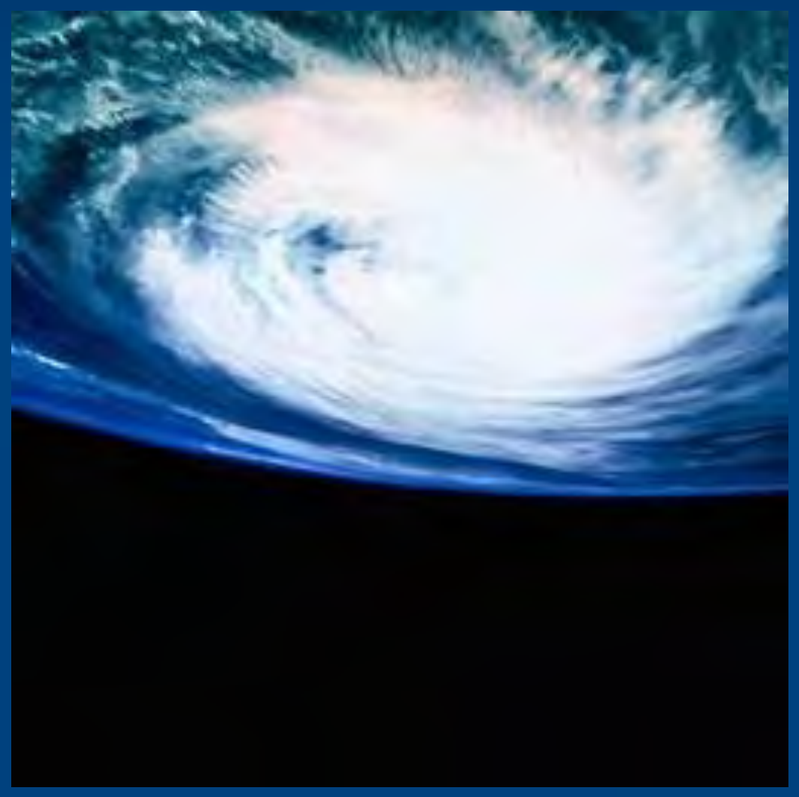

ENVS Courses
Spring 2021

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Advising and Registration

- ADVISING appointments
  Oct 30 – Nov 9… *please* sign up EARLY!!

- ON-LINE REGISTRATION begins **Nov 10**

- **Come prepared to advising appointments**

- **Check out the "For Current Students" section of the ENVS website for FAQs**

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ENVS 104

Gardening Principles & Practices

- Anne Stork
- Spring Semester Block II
- Fridays 10am-noon
- 1 credit, pass/fail

Learning outdoors in the organic and permaculture gardens, this hands-on course will introduce you to working with soil and plants, and to learning how to grow your own food that is friendly to the earth.

If you are interested in being a course assistant for this class please contact Anne at astork@Ithaca.edu.

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ENVS 112
Sustainability Principles & Practices

- Paula Turkon
- MWF 9:00-9:50
  or 10-10:50 am
  or MWF 12-12:50
- 3 credits

- *Does not fulfill ENVS major requirements but can count for the mENVS minor*
- Uses systems thinking approaches to examine the connection between these components of sustainability: *economic, environmental, social equity*, and *health*.
- Students will research sustainability practices on campus and in the community and propose solutions for various scenarios.

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ENVS 119
Intro to Environmental Humanities

- Michael Smith
  MW 4 to 5:15 pm with Lab on
  F 11 to 11:50 am
- 4 credits
- Required for all majors and counts toward the minor

We will use fiction and scholarship to examine the ways that cultural representation, issues of identity and race, and the concerns of environmental justice affect our understanding of what it means to be sustainable.

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ENVS 121

Introduction to Environmental Science

- Anne Stork
- TR 9:25-10:40 + lab
- 4 credits
- Required for all ENVS majors!

We will use scientific principles to investigate the causes and solutions of a variety of environmental issues such as coral bleaching, ocean acidification, bioaccumulation of toxins, dead zones, impacts of invasive species on biodiversity and ozone effects on vegetation.

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ENVS 145

Narratives of Climate Change

- Sandra Steingraber
- Spring Semester Block I
- MWF 1-2:50 pm
- 3 credit – fulfils ENVS HU

- Recent surveys show that one-third of Americans do not think the climate crisis is an urgent problem and that, even among those who do, there exist sharp partisan and generational splits on what should be done to solve it. Against this backdrop, *Narratives of Climate Change* explores the cultural discourse of the ongoing climate crisis.
- By the end of the course, students will understand the basic science of climate change as well as responses to the crisis from faith leaders; military leaders; artists, filmmakers, and writers; indigenous leaders; and youth activist leaders.

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ENVS 147 ~Time to Act: The Science and Politics of Climate Change

- Eric Leibensperger (Physics)
  - Feel free to write with any questions!
- MWF 12-12:50 pm
- 3 credits; ICC Natural Science – III, QSF and ENVS minor 100-level

Science tells us that climate change is here and that the time to act is now. How do we know? Who should bear the cost of adaptation + mitigation? This course provides an overview of climate change, including an introduction to climate science, energy systems, policy actions and options, climate skepticism and activism, and climate justice.

My research politicized out of context!

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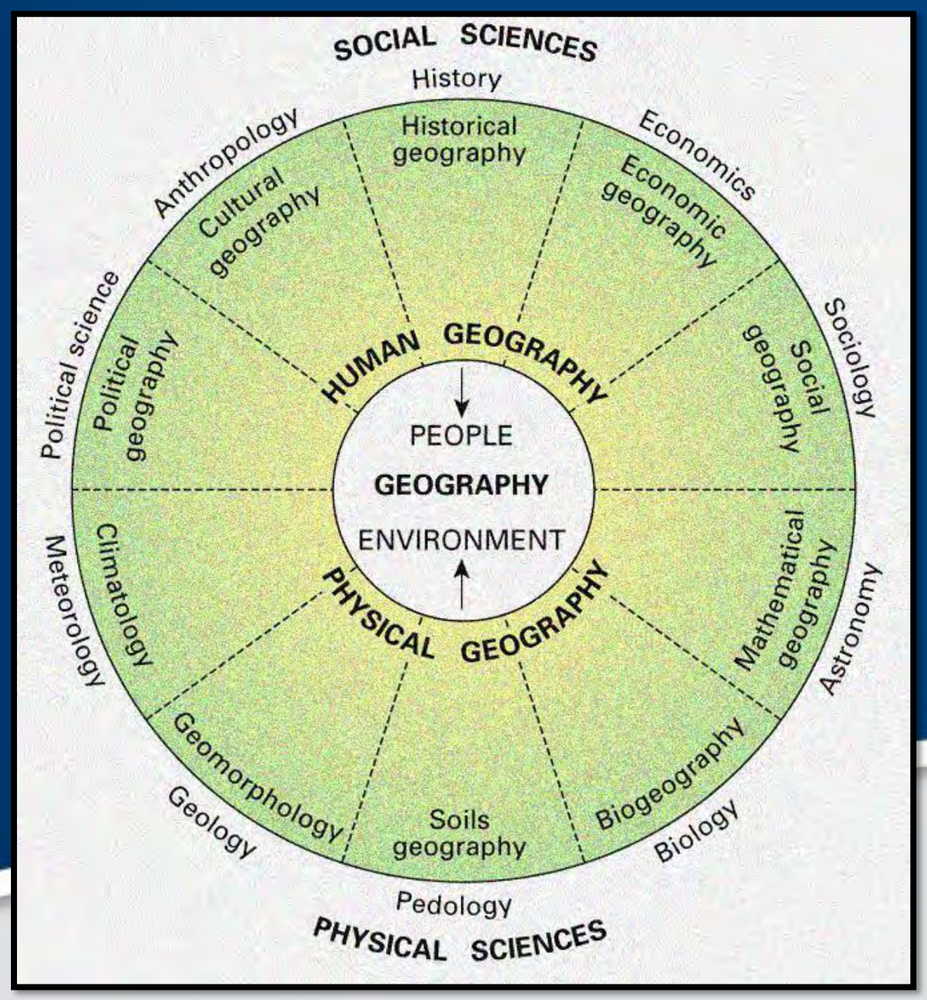
ENVS 220
Human-Environment Geography

- Jake Brenner
- MWF 10-10:50 am *or* 12-12:50 pm
- 3 credits
- *Required for all majors!*
- Prereq: Soph standing



Learn the geographies of well-known environmental problems

Key concepts:

- Space
- Place
- Scale
- Globalism

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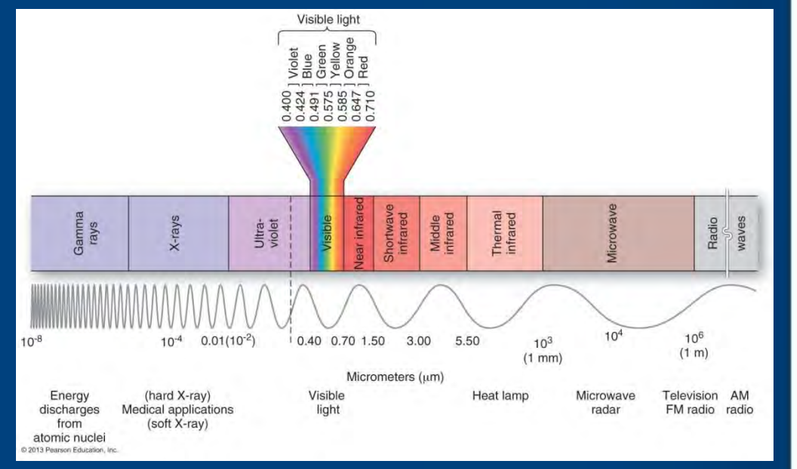
ENVS 224 Fundamentals of Earth and Climate

(formerly Interdisciplinary Physical Science)

- Chris Sinton
- MWF 10 to 10:50 am
- 3 credits
- ES&T prerequisite
- *required for all Studies majors!*
- *ICC QL designation!!*



Learn the essentials of earth and climate science with a particular emphasis on using quantitative analysis to answer important questions.

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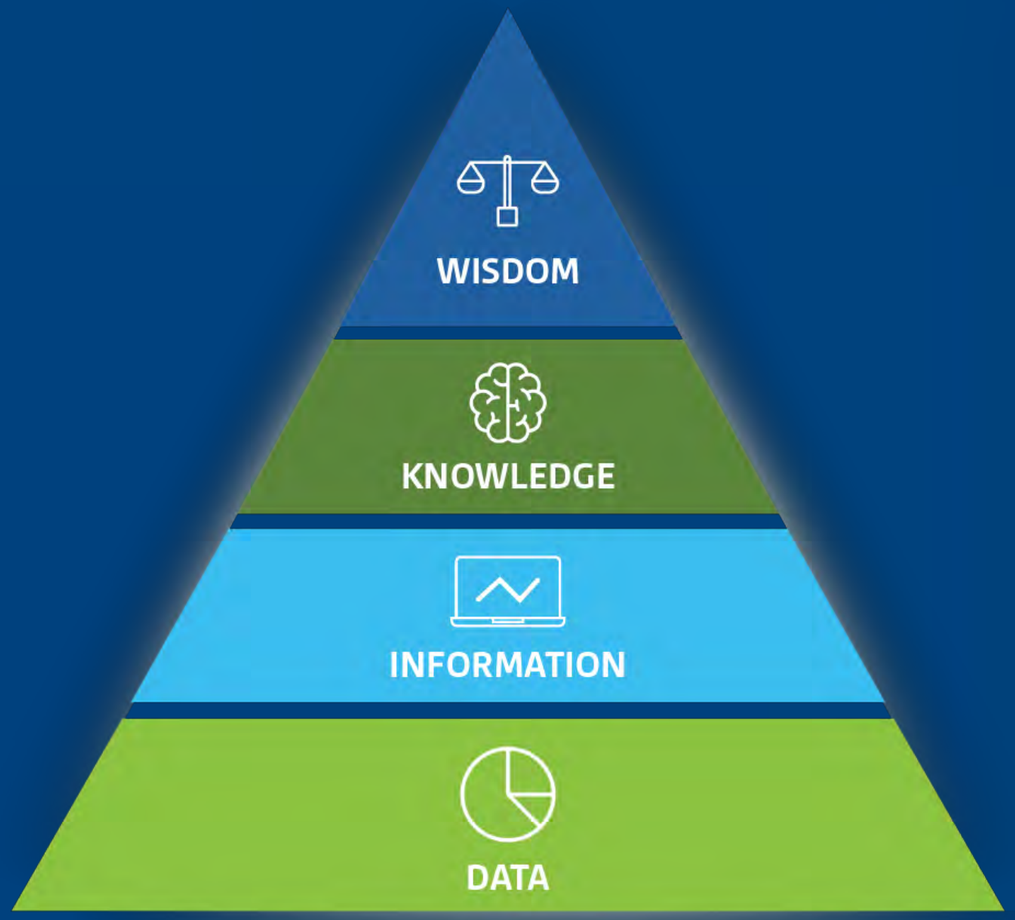
New Course!

ENVS 292:
Quantitative Approaches to Environmental Issues

- Susan Allen
- MWF 9-9:50 AM and
- W 12-12:50
- 4 credits
- Prereq: ENVS 121 (ES&T)
- QL designation
- Subs for EITHER Calc & Stats for Env Sci majors



- Data analysis for objective decision making and policy formulation
- Research design, big data, graphs, stats, communication of results
- YOU NEED THIS! Whether you know it or not ☺

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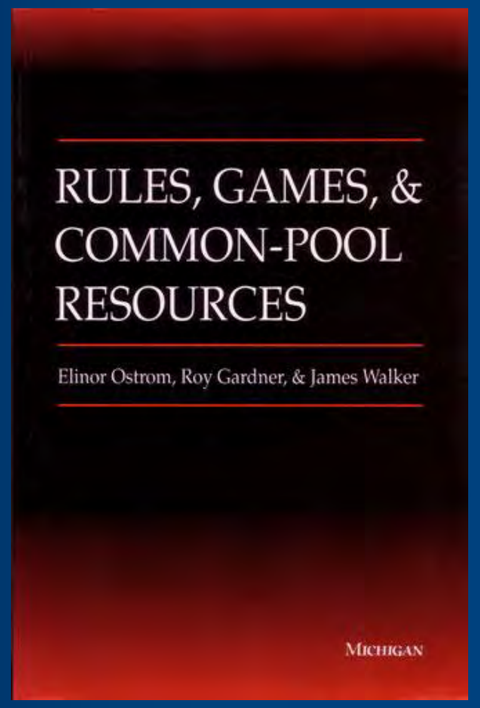
ENVS: 337
Communities and Sustainable Conservation



- Pranietha Mudliar
- TR 9:25 to 10:40 AM
- 3 credits
- Satisfies Env Studies Policy and Social Science elective
- Pre-Reqs: ENVS 11900 or ENVS 12100 and sophomore standing

- Key Concepts
  - **Social dilemmas**
  - **Game theory**
  - **Common-pool resources**
  - **Institutional analyses**
  - **Polycentric governance**

The course will equip you with skills and tools to analyze successes and failures of conservation through case studies from across the world

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ENVS 350

Special Topics in Natural Resources and Ecology also known as Non-Timber Forest Products

- Jason Hamilton
- 3 credits
- W 1:10 to 3:50 pm
- Prereqs: two ENVS courses; or permission of instructor
- Hands-on, learning-by-doing course where students will explore forest management and work w/student-run non-timber products micro-enterprises.

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ENVS 36000
Topics in Environmental Humanities--
The Environmental Activist Papers

- Fae Dremock
- T/R 4:00-5:15
- 3 credits
- ICC *Writing Intensive*
- Fulfills Env Studies HU elective
- Junior standing
  or consent of instructor

Join us as we read the memoirs of people like ourselves who have fought to protect the rivers, the mountains, the air, the workplaces, and the communities in which they live. How did they keep going against overwhelming odds?

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ENVS 41000

Mammals of the Northeast:

Track, Sign, Habitat, and Behavior

- Jason Hamilton
- TR 10:50 – 12:05 pm
- Lab: T 1:10 to 3:50 pm
- 4 credits

Advanced ENVS elective, Tools, Restricted Science Elective

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ENVS 475 –
Advanced Environmental Seminar

- Chris Sinton
- M 12 to 12:50 pm
- Full Semester
- 1 credit
- *Required of all seniors!*
- Finish the ICC!!!
- Prepare for the future. . .

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ENVS 476

Advanced Environmental Technologies

- Susan Allen
- MWF 11 – 11:50 AM
- M 1:10-3:50 lab
- 3 or 4 credits
- (lab optional)
- Prereqs: Junior standing and 2 science classes
- Restricted Sci Elective

- Biomimicry, 3D printing, sensors, autonomous control, artificial intelligence and robotics
- Learn about all the recent advances that change the way we research and remediate the environment

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ENVS Honors

- Requirements: Students with a minimum GPA in Environmental Studies and Sciences courses of 3.50 and an overall GPA of 3.30 may apply for the honors program
- How to apply: Application made to the ENVS curriculum committee via ENVS website
- Deadline to apply: End of first semester of junior year

Visit the ENVS website for more information and to fill out the online application

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Research, Independent Study & Internships

ENVS 201, 301, 402, 490 and 495

Many opportunities available .....

Contact faculty member directly if you're interested.

IC AQUAPONICS

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Courses from Other Departments

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MATH 221

Data Analysis w/ArcGIS

- Thomas Pfaff
- TR 10:50 to 12:05pm
- Contact Dr. Pfaff with any questions at tpfaff@Ithaca.edu
- Fulfills Tools or ENVS elective
- Should know statistics

ArcGIS®

Provides an introduction to spatial data management, analysis, modelling and visualization, and their applications, with a focus on problem solving with GIS. The context for applications in this course will mainly be environmental. The popular ArcGIS software will be used. Prerequisites: MATH 11100, MATH 14400, MATH 14500, or COMP 12400. (S,Y)

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MATH 159
Introduction to R

- Thomas Pfaff
- W 3 to 3:50 pm
- Contact Dr. Pfaff with any questions at tpfaff@Ithaca.edu
- 1 credit

This is a 1-credit introduction to R. The course focuses on problem solving through simulations in R. Students will learn some basics of simulations, graphing, and managing data in R.

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MATH 240
Stats with R

- Thomas Pfaff
- M 3 to 3:50 pm
- Contact Dr. Pfaff with any questions at tpfaff@Ithaca.edu
- 1 credit

This is a 1-credit course designed to teach students how to perform common statistical tests with R. There is a statistics prerequisite so that we will review statistical tests and then build on those skills.)

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CHEM 121

Principles of Chemistry
Env Sci Section

- Meets MWF 8-8:50 AM plus co-requisite lab CHEM 12200 on W 1-3:50pm
- 4 cred
- Required for Env Science majors

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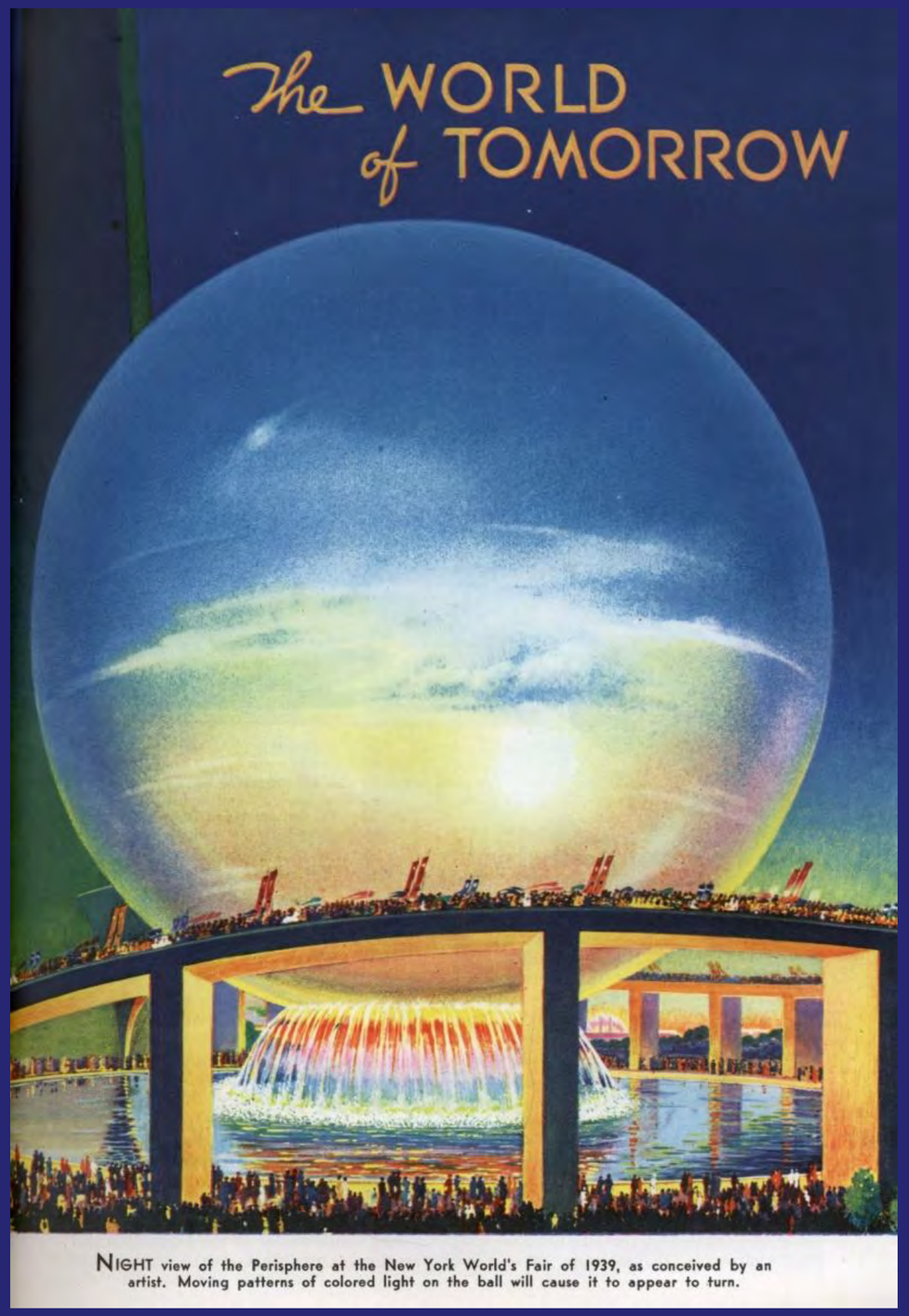
HISTORY OF THE FUTURE
HIST 272—T/H, 10:50 PM

Premise: How past societies imagined their future can reveal a great deal about who they *were.*

Major Course Topics:

- The Climate Crisis &Environmental Futures
- Apocalyptic Visions of the Future
- Utopian Visions of the Future
- History of the Idea of Progress
- Technology and the Future
- Media Depictions of the Future
- The Future Human

Counts as humanities perspective course.



NIGHT view of the Perisphere at the New York World's Fair of 1939, as conceived by an artist. Moving patterns of colored light on the ball will cause it to appear to turn.

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