Welcome to SEAS!
Admitted Student Visit Day

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Program mission, goals, and overview

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At the University of Michigan School for Environment and Sustainability (SEAS), we are at the forefront of building a more sustainable and just world for all by transforming the impact of higher education and reimagining the future. We are advancing action through innovation, research, education and engagement in society, and developing leaders who are empowered to halt the climate crisis and create an environmentally sound future for generations to come.

Situated within the nation’s top public research university, the University of Michigan School for Environment and Sustainability (SEAS) has been a pioneer in environmental education, research, and activism for more than a century.
Geospatial Data Sciences

Our interdisciplinary Geospatial Data Sciences field of study prepares industry leaders to develop and use analytical and computer-based methods to assess and protect the Earth's natural resources.
A Professional School

Exposure to Employers and Alumni

69 employers attended the 2022 Green Career Fair

86 alumni participated in career trek and alumni panels throughout the 2021-2022 academic year

28 employer information sessions were hosted for the 2021-2022 academic year
SEAS is
Interdisciplinary
Design
Technology
Social Systems
Natural Systems
Supportive Community
Largest living alumni body of any university

12,600+
Total alumni, the largest graduate population of any environmental degree program

33%
Of SEAS alumni have received a dual degree from another one of U-M's nationally ranked top 10 programs

Alumni
Are represented in all 50 states and 80+ countries
Overview

- GIS, remote sensing, statistics, data science, modeling
- Broad toolkit; typically students choose to combine it with interest in a particular domain such as:
  - Ecosystem Science and Management
  - Environmental Justice
  - Sustainability and Development
- Requirements are designed to be very flexible
Core Faculty

Leading experts in geographic information science, data-driven modeling and processing, advanced statistical methods, remote sensing, land use, wildlife conservation, and sustainable development

Kathleen Bergen
Associate Research Scientist

Shannon Brines
Lecturer

Neil Carter
Associate Professor

Ayumi Fujisaki-Mano
Associate Research Scientist

Dimitrios Gounaridis
Research Scientist, Lecturer

Meha Jain
Associate Professor

Derek Van Berkel
Assistant Professor

Bill Currie
Professor, Associate Dean

Kim C. Diver
Lecturer III

Kai Zhu
Associate Professor
About the Curriculum

Sample Courses
- Remote Sensing of Environment
- Environmental Spatial Data Analysis
- GIS and Natural Resource Applications
- Introductory Python for Geospatial Data Sciences I

Master's Project or Thesis
- Project
  - Group project (3-7 students), interdisciplinary, real-world applied problem for an external client
- Thesis
  - Individual research and writing, often a publishable journal article

SEAS and EPP Core
- Required GDS courses
  - GIS
  - remote sensing
- Electives
  - modeling, statistics
  - other fields of study
- Certification programs
  - Environmental Spatial Analysis
  - Complex Systems

Dual Degrees
- Other U-M schools
  - Law
  - Public Policy
  - Business
  - Engineering
  - Education
Course Schedule

**Fall**
- EAS 501 Geovisualization (Van Berkel)
- EAS 501 Multivariate stats (Gronewold)
- EAS 531 Intro to GIS (Diver)
- EAS 538 Nat Res Statistics (Ibanez)
- EAS 540 GIS and Nat Res Applic (Brines)
- EAS 543 Envtal Spatial Data Analysis (Cordero-Sancho)

**Winter**
- EAS 531 Intro to GIS (Carter)
- EAS 538 Nat Res Statistics (Jain)
- EAS 539 Landscape Ecology (Currie)
- EAS 541 Remote Sensing (Gounaridis)
- EAS 639 Intro to Python (Brines); followed by Advanced Python
- EAS501.006 GPS and Geospatial Field Technologies (Brines)
Examples:

1. ESM student focusing on Mobility + Built Environment

2. EPP student focusing on both Conservation + Restoration and Climate + Energy

3. SusDev student focusing on Water
Dual Degrees

Environment & Sustainability MS

+ 

Master of science in engineering (MSE)
Master of business administration (MBA)
Master of urban and regional planning (MURP)
Master of science in public policy (MPP)
Juris doctor (JD)
Self-initiated dual degrees
Alumni Employment
All Sectors

**Academia**
- PhD programs at various universities
- Faculty positions at various universities

**Government**
- NASA
- NOAA
- FEMA
- US Forest Service
- US EPA
- US Department of Energy
- Great Lakes Commission
- Southeastern MI Council of Governments

**Private**
- ESRI
- ENVIRON
- Greenman-Pedersen, Inc. INSIDEO

**NGOs**
- National Wildlife Federation
- African Wildlife Foundation
- The Nature Conservancy
- World Resources Institute
- United Nations Environment Programme
- Ecological Restoration Institute
- Grand Traverse Conservancy
- Leelanau Conservancy
SEAS Employment by Numbers

- 95% Satisfied with Post-Grad Position
- 96% Job Seekers Found Full-Time Jobs
- 90% Found Position within 6 Months
Questions?

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