

# FRESHWATER SCIENCES (SCHOOL OF)

With a degree in freshwater sciences or atmospheric sciences, students can turn their passion for the environment into a fulfilling career. The School of Freshwater Sciences offers bachelor's, master's and doctoral degrees in freshwater and atmospheric sciences. These programs offer an interdisciplinary approach to training the next generation of scientists armed with the knowledge, skills, and experience to anticipate and address the environmental issues of the future.

Areas of study include:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Weather and Climate

Undergraduate degree programs combine foundational coursework with multiple hands-on experiences to prepare students for the job market. Graduate degree programs offer extensive research and internship opportunities with faculty mentorship. Freshwater Sciences students have access to state-of-the-art labs and equipment, a genomics center, and research vessels that provide opportunities to develop skills in the latest scientific techniques. Atmospheric Sciences students meet all the requirements to be employed by the National Weather Service or another federal agency as a meteorologist.

## Programs

- Atmospheric Science, BS (<https://catalog.uwm.edu/freshwater-sciences/atmospheric-science-bs/>)
- Atmospheric Science, Minor (<https://catalog.uwm.edu/freshwater-sciences/atmospheric-science-minor/>)
- Atmospheric Science, MS (<https://catalog.uwm.edu/freshwater-sciences/atmospheric-science-ms/>)
- Atmospheric Science, PhD (<https://catalog.uwm.edu/freshwater-sciences/atmospheric-science-phd/>)
- Freshwater Sciences, BS: Aquatic Science (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-aquatic-science-bs/>)
- Freshwater Sciences, BS: Water Policy (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-water-policy-bs/>)
- Freshwater Sciences, Minor (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-minor/>)
- Freshwater Sciences, MS: Aquatic Science (Professional) (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-aquatic-science-professional-ms/>)
- Freshwater Sciences, MS: Aquatic Science (Thesis) (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-aquatic-science-thesis-ms/>)
- Freshwater Sciences, MS: Water Policy (Professional) (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-water-policy-professional-ms/>)
- Freshwater Sciences, MS: Water Policy (Thesis) (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-water-policy-thesis-ms/>)
- Freshwater Sciences, PhD (<https://catalog.uwm.edu/freshwater-sciences/freshwater-sciences-phd/>)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Carmen Aguilar	Associate Scientist	PhD	University of Wisconsin-Milwaukee		
Fred Binkowski	Senior Scientist	PhD	University of Wisconsin-Milwaukee		✓
Harvey Bootsma	Associate Professor	PhD	University of Manitoba	✓	
Tracy Boyer	Professor	PhD	University of Minnesota	✓	
Arthur Brooks	Professor	PhD	Johns Hopkins University		✓
Michael Carvan	Shaw Professor	PhD	Texas A&M University	✓	
Russell Cuhel	Senior Scientist	PhD	Massachusetts Institute of Technology and Woods Hole Oceanographic Institution		
Dong-Fang Deng	Professor	PhD	University of California-Davis	✓	
A. Clark Evans	Professor, Atmospheric Science Program Coordinator	PhD	Florida State University	✓	
Tim Grundl	Professor	PhD	Colorado School of Mines		✓
Laodong Guo	Professor	PhD	Texas A&M University	✓	
John Janssen	Professor	PhD	Michigan State University	✓	
Jonathan Kahl	Professor	PhD	University of Michigan	✓	
Jerry Kaster	Associate Professor	PhD	University of Colorado		✓
Rebecca Klaper	Interim Dean, Professor	PhD	University of Georgia	✓	
J. Val Klump	Professor	PhD	University of North Carolina-Chapel Hill		✓
Sergey Kravtsov	Professor	PhD	Florida State University	✓	

James Lubner	Professor	PhD	University of Wisconsin-Milwaukee		✓
Sandra McLellan	Professor	PhD	University of Cincinnati Medical Center	✓	
Ryan Newton	Assistant Professor	PhD	University of Wisconsin-Madison	✓	
James Price	Assistant Professor	PhD	The University of New Mexico	✓	
Paul Roebber	Distinguished Professor	PhD	McGill University	✓	
Melissa Scanlan	Professor, Lynde B. Uihlein Endowed Chair and Director, Center for Water Policy	JD	University of California, Berkeley	✓	
Xinyi Shen	Assistant Professor	PhD	Institute of Remote Sensing and GIS, Peking University	✓	
Osvaldo Jhonatan Sepulveda Villet	Assistant Professor	PhD	University of Toledo	✓	
James Waples	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	

## Contact Information

### School of Freshwater Sciences

Great Lakes Research Facility  
600 E. Greenfield Avenue  
Milwaukee, WI 53204

<http://uwm.edu/freshwater/>