

# SCHOOL OF EDUCATION

## WISCIENCE

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## SUPPORT FOR SCIENCE UNDERGRADUATES

UW–Madison offers a wealth of opportunities in the natural sciences for undergraduate students, including several undergraduate courses and programs at WISCIENCE designed to enhance an academic course of study in STEM.

Exploring Biology (<https://wisience.wisc.edu/Exploring-Biology/>) (INTEGSCI 100) This lecture/discussion course is designed to help first-year students understand career and academic options in the biosciences. It fulfills CALS seminar requirements and counts as a Biological Science Breadth credit. *2 credits*

BioHouse Seminar (<https://wisience.wisc.edu/BioHouse-program/>) (INTEGSCI 110) This seminar creates a formal space for residents of UW–Madison's 10th learning community to learn about life science and the Wisconsin Idea. *1 credit*

Exploring Service in Science (<https://wisience.wisc.edu/Exploring-Service/>) (INTEGSCI 140) Students learn about campus–community partnership and outreach in STEM. *1 credit*

Exploring Research in Science (<https://wisience.wisc.edu/course/exploring-research-science-course/>) (INTEGSCI 150) This seminar is designed to help students learn how research processes and the skills necessary for success with academic programs or careers in research. *1 credit*

Exploring Discipline-based Leadership in Science (<https://www.wisience.wisc.edu/discipline-based-leadership/>) (INTEGSCI 230) This course will help STEM students develop crucial skills for civic engagement, leadership, and social justice while reflecting on personal experiences in their field. *2 credits*

Service with Youth in (<https://wisience.wisc.edu/Engage-Children/>) **STEM Series** (INTEGSCI 240) This 2 semester series partners with the Adult Role Models in Science (ARMS) program to help students learn the process of learning, how to evaluate inform learning experiences, and how to collaborate with community partners in after-school science clubs. *2 credits per semester*

Entering Research Series (<https://wisience.wisc.edu/Entering-Research/>) (INTEGSCI 260 and INTEGSCI 261). This two-semester series is designed to be taken while undergraduates are engaged in mentored research to help them build a meaningful and productive experience in the lab. *1 credit per course*

Special Topics (<https://wisience.wisc.edu/secrets-science/>) (INTEGSCI 375): Our faculty offers a variety of topics allowing undergraduates to delve into a variety of STEM topics like the "Secrets of Science." *1–3 credits*

WISCIENCE also offers customized options for undergraduates with independent study and internship opportunities available.

## ADVANCING HIGHER EDUCATION IN STEM

WISCIENCE promotes cross-college collaboration among university educators around issues in science education, including teaching for diversity.

### Faculty Development Programming and Courses

Wisconsin Program for Scientific Teaching (WIPST)

Scientific Teaching Fellows (<https://wisience.wisc.edu/WPST-program/>): This program provides a hands-on approach to combine theory, practice, reflection, assessment, while strengthening participant's skill in teaching, with focus on educating the undergraduate.

INTEGSCI 650 College Science Teaching

INTEGSCI 750 Instructional Materials Design for College Science Teaching

INTEGSCI 850 Mentored Practicum in College Science Teaching

INTEGSCI 675 Special Topics

INTEGSCI 660 Research Mentor Training Practicum: Offered in collaboration with the Delta Program, our mentor training is based on the Entering Mentoring curriculum and gives participants time to reflect and build the tools necessary for a successful mentor/mentee relationship.

INTEGSCI 605 Scientific Teaching for TAs: This course is designed to help the newer teaching assistant (TA) enhance their own skills in teaching and learning to be more effective in the classroom or lab.

## SCIENCE OUTREACH AND COMMUNITY ENGAGEMENT

WISCIENCE initiates and supports outreach efforts to improve K–12 science education, prepare future science undergraduates, and encourage general public engagement with the natural sciences.

### Outreach in Science at WISCIENCE

Adult Role Models in Sciences (<http://www.wisience.wisc.edu/ARMS-program/>)

Science Alliance (<https://science.wisc.edu/science-alliance/>)

National Alliance for Broader Impacts (<https://broaderimpacts.net/>)

### Beyond the Classroom

BioHouse (<https://wisience.wisc.edu/BioHouse-program/>)

BioCommons (<http://www.biology.wisc.edu/>)

IMPACT Peer Leaders (<https://wisience.wisc.edu/IMPACT-program/>)

## CONTACT INFORMATION

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