

SCHOOL OF EDUCATION

WISCIENCE

WISCIENCE SUPPORT FOR STEM UNDERGRADUATES

At WISCIENCE, the Wisconsin Institute for Science Education and Community Engagement, we build and support communities of STEM learners. We deliver courses and programs in STEM disciplines that develop knowledge and skills for success in STEM; build identities and confidence; provide professional development and engagement opportunities in community engagement, leadership, and research in STEM.

Exploring Biology (<https://wisience.wisc.edu/Exploring-Biology/>) (INTEGSCI 100): This lecture/discussion course is designed to help first-year students explore topics, research, careers, and campus opportunities 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 STEM (<https://wisience.wisc.edu/Exploring-Service/>) (INTEGSCI 140): Students learn about campus-community partnership and outreach in STEM. *1 credit*

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

Exploring Discipline-based Leadership and Mentoring (<https://www.wisience.wisc.edu/discipline-based-leadership/>) (INTEGSCI 230): This course prepares STEM students for various peer leadership positions on campus. As part of a supportive community, students develop knowledge and skills related to leadership, educational equity, and diversity and inclusion in STEM. *2 credits*

Service with Youth in (<https://wisience.wisc.edu/Engage-Children/>) **STEM Series** (INTEGSCI 240 and INTEGSCI 341): Integrated Science 240 prepares students to work with community partners and lead elementary after-school science clubs, and to critically reflect on links between campus and community culture. Integrated Science 341 is a practicum that allows students to build upon this experience by continuing to lead 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.

SUPPORT FOR STEM GRADUATE STUDENTS AND POSTDOCS

WISCIENCE provides cross-campus programs and services to STEM graduate students and postdoctoral scholars.

INTEGSCI 605 Scientific Teaching for TAs: This course aims to help new TAs gain skills in scientific teaching to be effective and efficient in their roles. TAs get just-in-time support for their TA experience and apply their knowledge of research-based teaching approaches to the courses they are currently teaching.

Scientific Teaching Fellows Program (<https://wisience.wisc.edu/WPST-program/>): A year-long program for graduate students and postdocs in the biosciences or connected fields. Through training and practical teaching experience, Fellows learn about and develop innovative and effective ways to teach science.

Code	Title	Credits
INTEGSCI 650	College Science Teaching	
INTEGSCI 750	Instructional Materials Design for College Science Teaching	
INTEGSCI 850	Mentored Practicum in College Science Teaching	

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.

STEM Public Service Fellows Program (<https://wisience.wisc.edu/service/public-service-fellows/>): This program is a three-semester professional development program for graduate and postdoc students in STEM who care about the social impact of their work.

Code	Title	Credits
INTEGSCI 640	Public Service in STEM	
INTEGSCI 740	Community Relationships and Materials Development in STEM Public Service	
INTEGSCI 840	Mentored Practicum in STEM Public Service	

SUPPORT FOR STEM FACULTY AND STAFF

WISCIENCE provides cross-campus programs and workshops that bring together STEM faculty and staff to support the University's strategic goal of excellence in education.

Advancing Research Mentoring Practice (<https://wiscience.wisc.edu/faculty-staff/advancing-faculty-mentoring-practice/#overview>)

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

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

Beyond the Classroom

BioHouse (<https://www.housing.wisc.edu/residence-halls/learning-communities/biohouse/>)

BioCommons (<https://wiscience.wisc.edu/biocommons/>)

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

CONTACT INFORMATION

WISCIENCE

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