INTEGSCI 100 — EXPLORING BIOLOGY
2 credits.

A first-year course focused on the core concepts in biology (evolution; transformation of energy and matter; information exchange and storage; structure and function; systems biology), professions in biology, and the foundational skills and knowledge needed for successful academic and post-graduate careers in biology.

Requisites: First year students only
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatability: No
Last Taught: Fall 2017

INTEGSCI 140 — EXPLORING SERVICE IN SCIENCE
1 credit.

Introduces first-year science students to the world of public service from the perspective of both the university and its community partners, using classroom activities and direct experiences. Service opportunities include science outreach, sustainability, and public health. Upon completion of the course, students will be prepared to access the network of service providers in the region to pursue more in-depth volunteer or community-based learning opportunities. Involves approximately 1 hour per week of public service.

Requisites: None
Repeatability: No

INTEGSCI 150 — EXPLORING RESEARCH IN SCIENCE
1 credit.

Exploring Research in Science is an opportunity for first-year, second-year and transfer students to gain an understanding of the science research landscape at UW-Madison, to explore ways that scientists from different disciplines approach research, and to build skills in thinking like a scientist. The course will provide guidance on finding a research mentor and will expose students to science careers.

Requisites: None
Course Designation: Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatability: No
Last Taught: Fall 2017

INTEGSCI 230 — EXPLORING DISCIPLINE-BASED LEADERSHIP & MENTORING
2 credits.

Students will build practical peer leadership and mentoring skills, while evaluating and reflecting on personal experiences among a group of peers who challenge and learn from each other as they explore leadership. Class activities are designed to develop critical thinking around student development issues and provide strategies for integrating discussions of diversity, ethics, social justice, community, and civic responsibility into leadership experiences.

Requisites: None
Repeatability: No
Last Taught: Fall 2017

INTEGSCI 260 — ENTERING RESEARCH PART 1
1 credit.

Seminar course for sophomore or transfer students to begin independent research in science, technology, engineering or mathematics. Taken concurrently with 1-3 research credits with faculty member. Supports independent research experience.

Requisites: None
Repeatability: No
Last Taught: Summer 2017

INTEGSCI 261 — ENTERING RESEARCH PART 2
1 credit.

Seminar course for sophomore or transfer students continuing independent research in science, technology, engineering or mathematics. Taken concurrently with 1-3 research credits with faculty member. Supports independent research experience.

Requisites: None
Repeatability: No
Last Taught: Summer 2017

INTEGSCI 299 — INDEPENDENT STUDY
1-3 credits.

Provides academic credit for research, library, and/or laboratory work under direct guidance of a faculty or instructional academic staff member. Students are responsible for arranging the work and credits with the supervising instructor.

Requisites: Consent of instructor
Repeatability: Yes, unlimited number of completions
Last Taught: Fall 2017

INTEGSCI 320 — INTERNSHIP
1-3 credits.

Provides academic credit for skill development in authentic contexts in science education including service, peer mentoring, and leadership. See class notes for additional information.

Requisites: Consent of instructor
Repeatability: Yes, unlimited number of completions
Last Taught: Fall 2017
INTEGSCI 375 — SPECIAL TOPICS IN INTEGRATED SCIENCE
1-3 credits.

This course examines various special topics in science or science education. See class notes for additional information.

Requisites: Requisites vary by topic
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

INTEGSCI 605 — SCIENTIFIC TEACHING FOR TAS
1 credit.

The goal of this course is to arm Teaching Assistants with survival skills in scientific teaching through theory, practice, and learning community. We will work together to learn the core themes of scientific teaching (active learning, assessment, and diversity) and apply them, in real time, to the courses in which the TAs are concurrently teaching. This course is open to graduate students only.

Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

INTEGSCI 650 — COLLEGE SCIENCE TEACHING
1 credit.

Covers the fundamentals of learning theory and practical strategies for teaching science courses, while also developing community around this shared experience. The cohort will work together to learn the core themes of scientific teaching (active learning, assessment, and diversity) in theory so that they can make informed decisions about their teaching in the future. This course is required for Teaching Fellows Program participants.

Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

INTEGSCI 660 — RESEARCH MENTOR TRAINING PRACTICUM
1 credit.

Practicum course for graduate, post-doctoral or senior undergraduate students to be taken concurrently while mentoring an undergraduate engaged in an independent research experience.

Requisites: None
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

INTEGSCI 675 — SPECIAL TOPICS
1-3 credits.

This course examines various special topics in science or science education. See Class Notes for additional information.

Requisites: Graduate or professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

INTEGSCI 699 — INDEPENDENT STUDY
1-3 credits.

Provides academic credit for advanced research, library, and/or laboratory work under direct guidance of a faculty member. Students are responsible for arranging the work and credits with the supervising faculty member.

Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2017

INTEGSCI 750 — INSTRUCTIONAL MATERIALS DESIGN FOR COLLEGE SCIENCE TEACHING
1 credit.

Designed to provide a practical application of pedagogical knowledge through the development of instructional materials for use in a university science education context. The process will be based around cohorts of participants working together to identify learning objectives, and create evidence-based assessments and learning experiences to target those objectives. This course is required for Scientific Teaching Fellows Program participants.

Requisites: INTEGSCI 650
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions

INTEGSCI 850 — MENTORED PRACTICUM IN COLLEGE SCIENCE TEACHING
1 credit.

Continues the development of graduate student's skills in teaching and learning college science courses by providing a mentored, independent teaching experience. Participants will have the opportunity to see how theories of learning and teaching play out in real instructional settings by implementing instructional activities and then evaluating the outcomes of those activities on the basis of student artifacts. A particular emphasis will be placed on participants creating an inclusive learning environment for teaching diverse student populations. The course also provides participants with frameworks for teaching and managing their own courses, should they pursue academic positions after graduate school. This course is required for Scientific Teaching Fellows Program participants.

Requisites: INTEGSCI 750
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No