**COLLEGE COURSES**

**Overview**
College Courses are liberal arts courses taught outside of departments or programs.

**Course Offerings**

**COLL-110 STEM Transitions for Transfer Students**
*Not Scheduled for This Year. Credits: 1*
This 1-credit seminar is especially designed for students transferring to Mount Holyoke to pursue a major in the sciences or mathematics. The course will connect new transfer students to people and resources that will help them to fully engage in the sciences at Mount Holyoke and provide a space to practice the modes of discourse common to upper-level science and math courses. We explore interdisciplinary topics such as the biology of stress, and learn about science opportunities (including internships) and effective strategies for excelling in science and math courses. We use the primary literature as a text, and gain practice with analytical writing in a setting specifically designed for transfer students. The curriculum is guided by research-based best practices and is designed in consultation with former transfer students.

*Applies to requirement(s): Meets No Distribution Requirement*
*S. Bacon*
*Instructor permission required.*

**COLL-211 Reflecting Back: Connecting Internship and Research to Your Liberal Arts Education**
*Fall and Spring. Credits: 2*
Learn to speak with confidence and clarity about your summer internship or research project. Connect it to your academic coursework. What have you learned? How is it useful? What are your next steps? Students will reflect on their experience and collaborate with others to generate useful knowledge. Required for the Nexus but open to all students. For more information, email nexus@mtholyoke.edu.

*Applies to requirement(s): Meets No Distribution Requirement*
*M. Shea, E. Townsley*

**COLL-224 Being Human in STEM**
*Spring. Credits: 4*
This interactive course combines academic inquiry and community engagement to investigate the theme of diversity and climate within STEM fields. We will begin by examining the ways in which cultural norms, hierarchies, and practices within the STEM disciplines shape our experiences in the field and lab and the ways in which our diverse identities, commitments, and histories shape how we engage with STEM. How are others—and how are we—challenging and changing STEM disciplines, cultures, and practices and fostering abilities to be fully human in STEM? We accomplish this by investigating the ideas and actions of those who are changing how scientific knowledge is constructed and who is allowed to engage in that work. We will then build on this foundation, engaging closely with resources and sites at Mount Holyoke or nearby to develop projects that further contribute to this endeavor. Coursework includes weekly readings, reflective writing, creative projects, and in-class discussions and culminates in a public presentation of our collective work.

*Applies to requirement(s): Math Sciences*
*Other Attribute(s): Community-Based Learning*
*R. Brodie, J. Luce*
*Restrictions: Course limited to sophomores, juniors and seniors*

**COLL-321 Fundamentals of Microscopy**
*Fall and Spring. Credits: 4*
Microscopes are important tools used by technicians, medical professionals, and scientists to investigate interesting scientific questions and solve real-world problems. This course covers important microscopy basics including scale, the relationship between reality and the image, and the kind of information that can be captured with different types of microscopes. This course combines lecture and hands-on laboratory activities allowing students the opportunity to explore the basic principles of visible light, fluorescence, and electron microscopy. We will gain practical hands-on experience with the many forms of microscopy and learn the procedures and tools of the trade necessary to become a proficient microscopist. All students will be trained on at least one research-grade microscope during the semester and the major assignment for this course will be a final portfolio of micrographs created by each student.

*Applies to requirement(s): Math Sciences*
*Other Attribute(s): Writing-Intensive*
*H. Hamilton*
*Prereq: 8 credits in STEM subjects.*