Vertebrate Anatomy

Instructor: Patricia Brennan (https://www.mtholyoke.edu/acad/facultyprofiles/patricia-brennan)
Course Dates: May 24 – June 29, 2016
Class Meeting Times: Mon, Wed, Fri 9:00 am – 12:00 pm
Lab Meeting Times: Mon and Wed 1:00 – 4:00 pm
Location: Mount Holyoke College, 50 College St., South Hadley, MA (Rooms: TBA)
Credits: Four (pending Registrar approval)
Tuition: TBD

We will study the structures that allow vertebrates to perform basic functions in an evolutionary context. We will connect the functions with day-to-day challenges for vertebrates, and we will discuss disruption such as disease and trauma. In lab we will dissect fresh frozen and formaline preserved vertebrates emphasizing mammals. A willingness to work with such preserved material is critical to your success in class. Students are expected to work in groups during class time, as well as read required chapters BEFORE class. This class requires you to memorize the names of several structures in a functional context.

Prerequisite: Student should have some background in biology, chemistry, and mathematics (high school level may be sufficient)


If they wear contact lenses, students may want to get a pair of safety glasses to prevent eye irritation during labs.
Human Physiology

Instructor: Cynthia Gill
Course Dates: July 6 – August 11, 2016
Class Meeting Times: Mon, Wed, Fri 9:00 am – 12:00 pm
Lab Meeting Times: Mon and Wed 1:00 – 4:00 pm
Location: Mount Holyoke College, 50 College St., South Hadley, MA (Rooms: TBA)
Credits: Four (pending Registrar approval)
Tuition: TBD

With humans as our primary model system, we will cover cellular and general tissue physiology and the endocrine, nervous, cardiovascular, digestive, respiratory, and renal organ systems. Primary emphasis is on functional processes in these systems and on cellular and molecular mechanisms common across systems. Students will engage in class problems, lectures, and laboratory activities designed to strengthen knowledge of physiological concepts and of fundamental scientific, quantitative, and analysis skills.

Prerequisite: Students are expected, though not required, to have successfully completed Anatomy (summer session I)

Books and Materials: Human Physiology: An Integrated Approach by Dee Silverthorn
Laboratory Exercises will be made available online and students will need to make copies.