

**L41 Biology 1810: FRESHMAN SEMINAR IN IMAGING SCIENCES**  
**BIOLOGY Fall 2015**

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Biology 1810 is designed to acquaint prospective Life Sciences majors with various fields of research in imaging sciences within the Department of Biology and related departments in the Schools of Arts & Sciences, Medicine and Engineering. If you have any questions concerning Biology 1810, please do not hesitate to talk with Dr. Ben---Shahar before or after class or make an appointment. By email, use Bio 1810 or ISP Seminar in the subject line.

**DESCRIPTION:** The course consists of a series of 14 class meetings. The majority of the meetings will be research lectures given by different faculty members on topics in imaging sciences related to their specific research interest. One meeting will include lectures by Bio 500 (research for credit) students on their undergraduate research projects. One meeting will be a discussion of how grants are obtained and the review process for research articles. There will also be “field trips” to the Medical School as well as to the Danforth campus Imaging facility for hands on imaging demonstrations. You will be required to write two short papers covering lectures of your choice. Lectures are held Wednesdays from 3:30pm---5:00pm in Life Sciences Room 310. Credit for the course is 1 unit PASS/FAIL only. No letter grades will be issued. This does not interfere with your ability to take another Cr/NCr course.

Consult the course webpage for up---to---date lecture schedule, the PDFs for readings, and background information on each of the speakers. If you need assistance please contact Michele Felton at [felton@wustl.edu](mailto:felton@wustl.edu)

## **REQUIREMENTS:**

1. CLASS MEETINGS: Students are required to attend at least 10 of the class meetings (see web page for schedule) in order to pass the course. You are expected to take notes at each research faculty lecture to assist you in the preparation of your short papers and to gain skill in note taking during science lectures. There will be an attendance sheet in class each week. Please sign in for each course section. It is a serious breach of the honor code for one person to sign in for an absent student. You must be present during the entire duration of the class meeting in order to receive credit for attendance at that meeting.

2. READINGS AND TWO SHORT PAPERS: PDFs of articles will be posted on the course website for each faculty research lecture to enable you to pursue topics further. You are required to choose 2 of the research topics presented by faculty speakers in Bio 1810 lectures and read the PDFs posted for these lectures. You are required to write 2 short papers that each receive a mark of ++ or + in order to pass the course. Short papers that receive a mark of -- will need to be re---written. Each short paper will include the following: (1) a short summary of the main points of the speaker's talk; (2) a summary of the main points of the PDF articles associated with the talk; and (3) discussion of questions that remain unanswered AND/OR ideas for future experiments in the field. You will email your paper to Dr. Ben---Shahar, [benshahary@wustl.edu](mailto:benshahary@wustl.edu) by 5:00pm on the due date. Your first paper will be due Thursday, October 15 and the second on Tuesday, November 24. Paper re---writes are due on Thursday, December 3.