

January 12, 2012

BIOL 918: Modern Biochemical and Biophysical Methods

Organizers:

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Instructors:

Krzysztof Kuczera, David Weis, Emily Scott, Liang Tang, Scott Lovell and Roberto De Guzman

Semester: Spring 2012

Time & place: WF 1:00 – 2:50 pm, Room 2025 Haworth or as specially scheduled

Line # : 68302 **Credit hours:** 4

Class Goals.

The class will present a comprehensive overview of the theory and applications of selected modern methods of biophysics and biochemistry. Each topic will be taught by an expert who is currently using the technique in his/her research. Class lectures will be augmented by laboratory demonstrations and activities. The goal is to identify strengths and limitations of various approaches, improve understanding of current biochemical literature and expand the range of tools considered by students in day-to-day research.

Class components and grading.

Besides formal lectures, the class will involve laboratory experience with the different methods. Homework will be assigned for each section, involving exercises related to the material covered and/or brief laboratory reports. A midterm exam, covering the material of the first half semester, is scheduled for March 16. The material from the second half of the semester will be covered in the second exam, during the finals period.

$$\text{grade} = 0.333 * (\text{midterm}) + 0.333 * (\text{final}) + 0.333 * (\text{homework})$$

Internet access.

Materials and announcements will be posted on [Blackboard](#).