

Bioc704/Biol704 Spring 2019

Biophysics Seminar Class (2 credit hours)

Instructor: Dr. Kevin Slep (kslep@bio.unc.edu); 402 Fordham Hall

Mondays: 1:00-3:00 PM, Location: GM3007

Thursday/Friday: Arranged with seminar host faculty and Dr. Kevin Slep
Location: GM3009 (2 hour duration). Prime reserved time is Fridays 2-4 PM with some variability (see course calendar). Time subject to change based on host availability.

Seminars (1 hour): Date and Location on the Class Schedule

Learning Goals:

This class is designed to 1) enhance a student's ability to present scientific material to their peers in a comprehensive, cohesive manner, 2) enhance communication skills (both verbally and via Powerpoint presentation), 3) develop team working skills, and 4) enhance each student's ability to constructively critique and evaluate peer scientists: their mode of presenting as well as the data and conclusions they present.

Class Description:

The course focuses on the Molecular and Cellular Biophysics spring seminar series. During the semester, pairs of students will be assigned to introduce and present the work of visiting seminar speakers to the rest of the class. These presentations will precede the seminar and will serve to familiarize the students with the speaker's work so that they can optimally engage the speaker when she/he visits. The students will work with the course Instructor as well as the seminar Host to develop, practice, and refine a one-hour presentation. The presentation should introduce the work the visiting scientist will present. Once the talk has been practiced and refined, the students will then give their presentation to the rest of the class. During the presentation, the rest of the students in the class will play an active role in evaluating the presentation. Students will then attend the speaker's seminar and complete a written critique of the seminar.

Class Procedures:

At the outset of the class, pairs of students will be assigned two seminar speakers for their in-class presentations.

- 1. Meeting with Seminar Host.** Approximately two-three weeks before the seminar date, students will contact the seminar Host (or Instructor if there is no designated host), arrange to meet, and go over general guidelines including 1) papers from the seminar speaker's lab that the Host recommends the students should read and 2) a general outline of the what

the student's presentation should include. The students should work together prior to this, and come to the meeting with a tentative list of the papers as well as a tentative outline for the presentation.

2. **Practice Presentation.** The pair of students will arrange with the Instructor and the Host to have a practice presentation in GM3009 on the Thursday/Friday before the week of the seminar (**students should check the Class Schedule as there are exceptions to this timeline when multiple seminars occur in the same week**). During this two-hour session, the pair of students will present their work and the Instructor and Host will offer advice and critique the presentation. The students will then have the weekend to refine their presentation and incorporate the changes recommended by the Instructor and the Host.
3. **Class Presentation.** The pair of students will make their presentation to the rest of the class on the Monday before the seminar (GM3007, 5:45-7:45 PM). The other students in the class will evaluate the presentation and at the conclusion, offer dynamic suggestions on what they viewed as strengths as well as areas that could use improvement. Presentation evaluation forms can be downloaded from Sakai and printed out. This feedback is used by the entire class to help refine and inform their presentation skills.
4. **Seminar.** Students will attend the seminar. A seminar evaluation form will be completed by each student (this form can be downloaded from Sakai and printed out).

Grade Determination:

Grades will be determined based on the two presentations the student makes to the class as well as participation in the course, including constructive evaluations of the student's peers.

Presentation 1:	25%
Presentation 2:	25%
Participation:	50%

Sakai Site:

Course materials will be available on Sakai.

Etiquette:

Throughout this course you will be interacting with invited seminar speakers. Be sure to hold yourself to the highest standards as you represent UNC, the MCBP, and most importantly: yourself. This could be someone who evaluates your grant applications, reviews your papers, or takes you into their lab for a postdoc. Be formally polite with speakers when you interact with them. When you have lunch with them, wait until they arrive until you get food. Leave many food options for the speaker before selecting your meal. Do not eat before the speaker eats. Ask kind, insightful questions.

Date	Day of Week	Speaker	Institution	Host Dept.	Time	Room	Topic
14-Jan	Monday	Class - Intro (1:30 start)					
8-Feb	Friday	Practice: Dunham					
11-Feb	Monday	Class Presentation: Dunham					
12-Feb	Tuesday	Christine Dunham	Emory	Biochem	11:00	Bioinf 1131	Ribosome structure - antibiotics
15-Feb	Friday	Practice: Sidhu					
18-Feb	Monday	Class Presentation: Sidhu					
20-Feb	Wednesday	Sachdev Sidhu	U. Toronto	CBMC	12:20	Kerr 2001	Systems Biology - Antibody - selection/design
1-Mar	Friday	Practice: Kirschner					
4-Mar	Monday	Class Presentation: Kirschner					
8-Mar	Friday	Practice: Chenoweth					
11-Mar	Monday	Class Presentation: Chenoweth					
15-Mar	Friday	Practice: Partch					
18-Mar	Monday	Class Presentation: Partch					
19-Mar	Tuesday	Marc Kirschner	Harvard	Biology	12:30	Carrington L300	Systems Biology
20-Mar	Wednesday	Dave Chenoweth	UPENN	CBMC	12:20	Kerr 2001	Design and synthesis of new chemical tools
22-Mar	Friday	Practice: Akhmanova					
25-Mar	Monday	Class Presentation: Akhmanova					
26-Mar	Tuesday	Carrie Partch	UC Santa Cruz	Biochem	11:00	Bioinf 1131	Circadian clock structure
27-Mar	Wednesday	Anna Akhmanova	Utrecht Univ.	Cyto-Club	12:00	Bioinf 1131	Microtubule Dynamics
29-Mar	Friday	Practice: Bartesaghi					
1-Apr	Monday	Class Presentation: Bartesaghi					
2-Apr	Tuesday	Alberto Bartesaghi	Duke	Biochem	11:00	Bioinf 1131	High res cryo EM
5-Apr	Friday	Practice: Young					
8-Apr	Monday	Class Presentation: Young					
9-Apr	Tuesday	Nick Young	Baylor	Biochem	11:00	Bioinf 1131	Quant. Mass Spec - Histones and epigenetics
12-Apr	Friday	Practice: Bradley					
15-Apr	Monday	Class Presentation: Bradley					
16-Apr	Tuesday	Phil Bradley	Fred Hutchison CC	Biochem	11:00	Bioinf 1131	DNA-protein structure pred - Rosetta
18-Apr	Thursday	Practice: Vaidehi					
22-Mar	Monday	Class Presentation:Vaidehi					

23-Apr	Tuesday	Nagarajun Vaidehi	City of Hope	harmacolog	4:00	Bioinf 1131	Computation Biology - GPCR
26-Apr	Friday	Practice: Wells					
29-Apr	Monday	Class Presentation: Wells					
8-May	Wednesday	Jim Wells	UCSF	CBMC	12:20	Kerr 2001	Attacking the Cancer Cell Surfaceome