

Course Syllabus

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Integrative Biology 232

Seminar in Biomechanics

FOCUS ON PEER REVIEW

FALL 2019

Control Number: 33137

Units: 2

Instructors:

Professor Robert Full

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Professor Robert Dudley

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Phone: 510-642-1555

Location: Tu 10:00A-10:59A | 5053 Valley Life Sciences

Rationale:

In this seminar course we will discuss the biomechanics of living systems. We will analyze student selected papers, break down the logic of the arguments, and review the data and conclusions. The class will focus on biomechanical principles specifically, but on how to review and, therefore, write papers in general.

Peer Review Topics

1. Choosing where to submit paper
2. Peer review process
 - Role of the Editor
 - Roles of the Referee
3. How to write a review
4. Revising and responding to referee reports
5. Ethics
6. Diversity and inclusion in peer review

We will use a variety of sources for discussion that can be viewed or read on your own early in the semester:

1. The Nature Masterclass on peer review (<https://masterclasses.nature.com/focus-on-peer-review-online-course/16605550>).
2. The Nature Masterclass on writing and publishing (<https://masterclasses.nature.com/online-course-in-scientific-writing-and-publishing/16507840> [_ \(https://masterclasses.nature.com/focus-on-peer-review-online-course/16605550\)](https://masterclasses.nature.com/focus-on-peer-review-online-course/16605550)).
3. IOP - An introductory guide for authors

<http://cms.iopscience.org/39bb7326-d278-11e1-9b7a-4d5160a0f0b4/peer-review-process.html>
(<http://cms.iopscience.org/39bb7326-d278-11e1-9b7a-4d5160a0f0b4/peer-review-process.html>)

4. Diversity and Inclusion in Peer Review at IOP Publishing

<https://iopublishing.org/about-us/diversity-inclusion-peer-review-iop-publishing/>
(<https://iopublishing.org/about-us/diversity-inclusion-peer-review-iop-publishing/>)

Student may add other helpful references at any time during the semester, so that we will have a helpful set of references for all.

Assignment & Grading:

Students will present 1-2 papers during the semester where they lead the discussion of their review of the paper. A student will select a biomechanics paper of their choice a week in advance and post the pdf on bCourses. In addition, the presenting student will upload a pdf to bCourses on the Monday before class that includes:

1. a brief outline of the logic of the paper (1 page);
2. a brief written review of the paper (1-2 pages).

The presenting student will lead the discussion of the review and all will initiate questions about the review process.

Each non-presenting student is expected to read the selected paper and the posted review before class on Tuesday.

Course Web Site:

We will use a bCourses site for the syllabus, reading assignments, and announcements. You may access the site by going to:

<https://bcourses.berkeley.edu>, login through CalNet and then to Integbi 232

INTEGRATIVE BIOLOGY 232

Seminar in Biomechanics



TENTATIVE PRESENTATION SCHEDULE, Fall 2019

Tuesday 5053 VLSB 10:00 - 11:00AM

3 Sept	Organizational meeting
10 Sept	Prof. Full
17 Sept	Sathe, Erik
24 Sept	Saintsing, Andrew
1 Oct	Lee, Leah
8 Oct	Treers, Laura
15 Oct	McInroe, Benjamin
22 Oct	Lindberg, Emily

29 Oct	Abbott, Michael
5 Nov	Wang, Lawrence
12 Nov	Li, Monica
19 Nov	Hidalgo, Fatima
26 Nov	Lam, Emily / Torres, Julia
3 Dec	Bhatti, Haider Ali

Course Summary:

Date	Details
Tue Sep 10, 2019	 IB232 Paper Discussions (https://bcourses.berkeley.edu/appointment_groups/13864)
	10am to Dec 3 at 11am
	 Roll Call Attendance (https://bcourses.berkeley.edu/courses/1483917/assignments/8026390)