Integrative Biology 232
Seminar in Biomechanics

FOCUS ON PEER REVIEW

FALL 2019

Control Number: 33137

Units: 2

Instructors:

Professor Robert Full
Office hours: Tues., 11:00 - 12:00 PM, 5128 VLSB
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Phone: 510-642-9896

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).
3. IOP - An introductory guide for authors
   http://cms.iopscience.org/39bb7326-d278-11e1-9b7a-4d5160a0f0b4/peer-review-process.html
4. Diversity and Inclusion in Peer Review at IOP Publishing
   https://ioppublishing.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
### Course Summary:

<table>
<thead>
<tr>
<th>Date</th>
<th>Details</th>
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<tr>
<td>Tue Sep 10, 2019</td>
<td>IB232 Paper Discussions (<a href="https://bcourses.berkeley.edu/appointment_groups/13864">https://bcourses.berkeley.edu/appointment_groups/13864</a>)</td>
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- 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