



2018 BOOT CAMP LECTURE SCHEDULE

WEEK 1: JULY 16-JULY 20, 2018

Location – All sessions take place in the Vagelos Building, Room 2000, at 3340 Smith Walk.
<https://www.facilities.upenn.edu/maps/locations/vagelos-laboratories-iast-roy-and-diana>

Monday, July 16

9:00 am: *Welcome and introductions. Goals and expectations. Discuss team and group projects.*

10:00-11:00 am **Lecture 1:** Intro to mechanical elements of animal cells, *Rick Assoian*

10:00-11:00 am **Lecture 2:** Intro to mechanical elements of plant cells, *Ram Dixit* (remote)

11:00-12:00 pm **Lecture 3:** Basic Mechanics, *Paul Janmey*

12:00-1:30 pm Working lunch and Enrichment #1 – “Broader Impacts” –
Kim Gallagher (Penn/NSF)

1:45-4:00 pm Lab Sessions (see schedule)

Tuesday, July 17

9:00-10:00 am **Lecture 4:** Intro to the animal ECM, *Rebecca Wells*

10:00-11:00 am **Lecture 5:** Intro to the cytoskeleton and membrane systems, *Erika Holzbaur*

11:00-12:00 pm **Lecture 6:** Intro to the plant ECM, *Marcus Foston* (remote)

12:00-1:30 pm Working lunch – Journal club lead by Team #1

1:45-4:00 pm Lab Sessions (see schedule)

Wednesday, July 18

9:00-10:30 am **Lecture 7:** Molecular mechanisms of mechanosensing, *E. Michael Ostap*
• *Angela Schlegel* and *Ivan Radin* (recorded lecture)

10:30-11:30 am **Lecture 8:** Measuring Forces, *Anders Carlsson* (remote lecture)

11:30 am -1:00 pm Working lunch - Journal club lead by Team #2

1:15-5:30 pm Lab Sessions (see schedule)

Thursday, July 19

9:00-10:00 am	Lecture 9: Artificial matrices, <i>Treena Arinzeh</i>
10:00-11:00 am	Lecture 10: Nuclear mechanobiology, <i>Ben Prosser</i>
11:30-12:30 pm	Working Group – Trainee talks and lunch for entire center
1:00-5:00 pm	Lab Sessions (see schedule)

Friday, July 20

9:00-10:00 am	Lecture 11: Intro to the mechanical response of biomaterials, <i>Vivek Shenoy</i>
10:00-11:00 am	Lecture 12: Fluidics, <i>Dan Huh</i>
11:00-12:30 pm	Working lunch and Enrichment #2 – “Networking at a conference” – <i>Thi Nguyen</i> (WashU, remote)
1:11-4:45 pm	Lab Sessions (see schedule)
5:00 pm	Center-wide Happy Hour – CEMB Conference Room – 112 A LRSM

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NOTE – Building Access.

The door on Smith Walk near 34th Street requires a card swipe for entry. If you have difficulty and cannot enter, continue down 34th Street toward Spruce Street. Enter the Chemistry Building (there is a guard stationed here). Take stairs or elevator to the 2nd floor and wind your way back down to the Vagelos complex. Room - Vagelos 2000.