Welcome!

What should you be thinking about in the first 6 months?

Overview

- Courses
- Rotations
- Residency
- What should I be doing right now?
- Where do I go for more info?

Introduction

- Flexible Program!!
- Two campuses - many resources!!
- It's up to you to be proactive & make the most of it
  - Talk to peers
  - Talk to faculty
  - Make your own opportunities

Courses: Major/minor requirements

Flexible! Design-your-own-major/minor to best suit your research & career goals.

● Major: 16S/24Q

● Minor: 8S/12Q

Examples:

● Biomechanics & synthetic biology.

● Microfluidics & technology management

Check the wiki for suggested tracks! ucbeast.berkeley.edu

Neuroscience

Track 1
EE 129 – Neural & Non-linear Info Processing (UCB 3S)
MCB 160 – Neuroscience (UCB 4S)
VS 212B – Visual Neurophysiology (UCB 2S)
EE 225D – Audio Signal Processing in Humans and Machines (UCB 3S)
EE 225A – Digital Signal Processing (UCB 3S)
PHYS 248 – Analysis of Neural and Behavioral Data (UCSF 3Q)

Stem Cell & Tissue Engineering

Track 1
BIOE116- Cell and Tissue Engineering (UCB 3S)
BE221- Tissue Mechanobiology (UCSF 2Q)
CB245- Cell Biology (UCSF 2Q)
BE223- Polymer Engineering (UCB 3S)
BE119- Orthopaedic Engineering (UCB 3S)
ME280A- Intro to the Finite Element Method (UCB 3S)

1 Semester Unit (UCB) = 1.5 Quarter units (UCSF)

Courses: Area requirements

Area requirements: foundation in bioengineering.

(You've probably already completed most of it!)

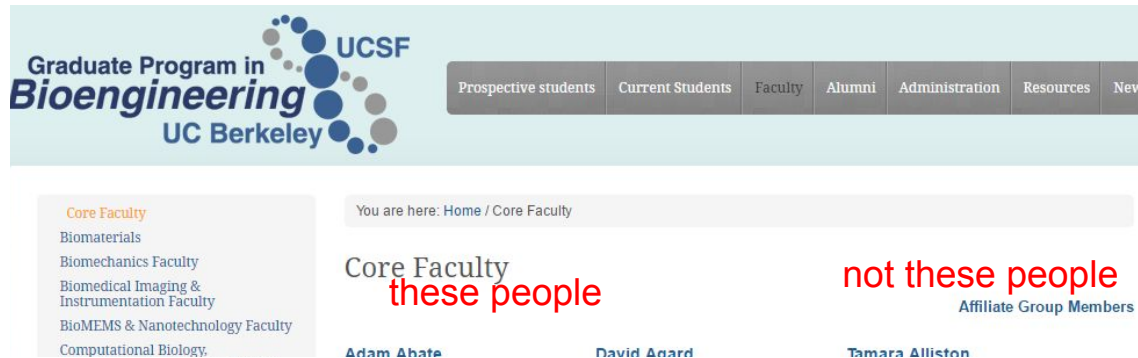| Area	Semester Units	Quarter Units
Anatomy, Physiology and Biology	9	13.5
Biochemistry, and Chemistry beyond General Chemistry	3	4.5
Engineering in a traditional discipline and Computer Science	7	10.5
Mathematics (beyond linear algebra and differential equations) and Statistics	2	3.0

Courses: 1st year seminars

- **Biological Aspects of Bioengineering** *BioE 200 (UCB) / BioE 281 (UCSF)*
  - Lab overviews and rotation opportunities from professors
- **Teaching Techniques for Bioengineering** *BioE 301 (UCB)*
  - Teaching
  - Fellowships
  - Ethics!
- **Rotations** *BioE 298/299 (UCB) / BioE 250 (UCSF)*
  - Rotation credit
- **Thriving in Science Seminar Series** *(UCB)*
  - http://thriving.berkeley.edu/lectures
- **BioE/PSPG Joint Seminar Series** *(UCSF)*
  - Mission Bay Rock Hall, RH-102
  - http://pspg.ucsf.edu/seminars-events/pspg-seminar-series

Courses: Resources

- BEAST Wiki (https://ucbeast.berkeley.edu)
  - Major/minor courses
- UCSF Course Catalogue (http://student.ucsf.edu/gencat/courselisting.html)
- UCB Course Schedule (http://schedule.berkeley.edu)
- Academic advisor and rotation professors
- **Peer advisors**

Rotations

- THREE rotations with CORE faculty are REQUIRED

- Why rotate?
  - Form professional relationships
  - Learn new approaches, techniques
  - Find the right "fit" (research, mentorship, etc)
- Commit to a dissertation lab: **May 5th, 2017**
- Not 1, 2 or 4 rotations.

Selecting Rotations

- Does this lab and *project* fit my research interests?
  - Lab meetings
  - Student and faculty talks
  - Graduate advisor
- Is this the right environment for me?
  - Talk to lab's rotation students/ grad students
  - Ask the tough questions (Why lab x over lab y?)
- <u>Is there a funded spot available for me?</u>

- *If all the above are yes, submit a form to SJT or KO*

GSI = Graduate Student Instructor

- You must GSI one course
- Usually students GSI in their 2nd or 3rd years
- Get it out of the way early so you can focus on research
- Look for emails from KO and SJT about GSI opportunities

What should I do right now?

- Get IDs, bus passes
- Register for classes
- Plan rotation #1
- Residency
- Register for retreat
- Fellowships

Now: ID Cards

- UCB: Cal1 Card office on Lower Sproul Plaza
  - Valid gov't issued ID
  - Student ID #
- AC Transit Bus Pass: register for classes
- UCSF: should have it!

Now: Course Registration

- **UC Berkeley**
  - calcentral.berkeley.edu
  - Fall and spring *semesters*

- **UCSF**
  - saa.ucsf.edu/studentportal
  - Fall, winter, spring *quarters*

Now: Course Registration

- **UCB "home campus":**
    - ≥12 units @ UCB *every semester*
    - File study list at UCSF *only when taking courses there*

- **UCSF "home campus":**
    - ≥1 unit @ UCB *every semester*
    - File a UCSF study list w/ ≥8 units *every quarter*

Now: Fellowships

- Resources:
  - BioE 301
  - NSF workshops at UCB each fall
- Links:
  - Graduate Division Fellowships Office
    http://www.grad.berkeley.edu/financial/fellowships_office.shtml
  - Terry Johnson
    https://sites.google.com/site/tdjberkeley/advice/fellowships
  - David Breslauer
    http://biopoets.berkeley.edu/davidb/money.php

Now: Residency

- Must become a CA resident by establishing continuous presence in CA ≥1 year before Fall 2017

- File Statement of Legal Residence (SLR) now
  - UCB: bearfacts.berkeley.edu → "SLR"
  - UCSF: http://registrar.ucsf.edu/new-students/registration

- Collect documents
  - Evidence of arrival (airline tickets, gas receipts)
  - CA driver's license, CA vehicle registration, CA voter registration card
  - CA bank statements, CA rental agreement
  - Prior year tax forms (state/federal)

Submission deadlines: UCB: July 2017, UCSF: June 2017

Now: Attend seminars, talk to advisors, make friends!

Seminars

- Departmental Seminar
- BERFs & Exit Seminars
- Seminars at both campuses
- Seminars in other departments

Advisors

- Graduate/Academic advisor
- Head Graduate Advisors
- Your Peer Advisor
- Head Peer Advisors
- Research Advisor (PI)

Use program logos and affiliations correctly
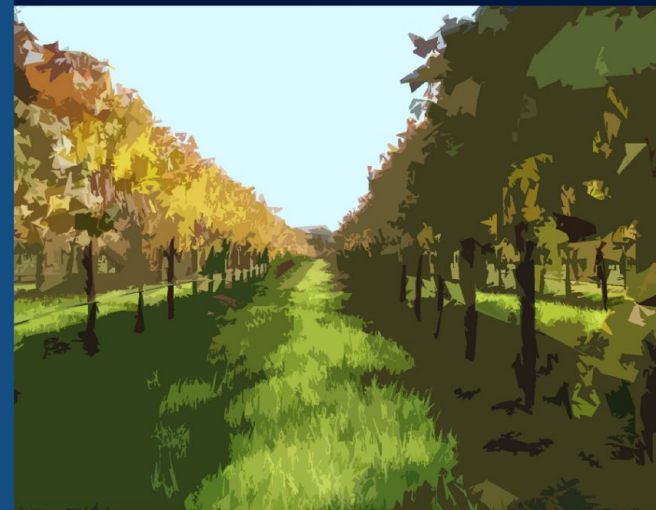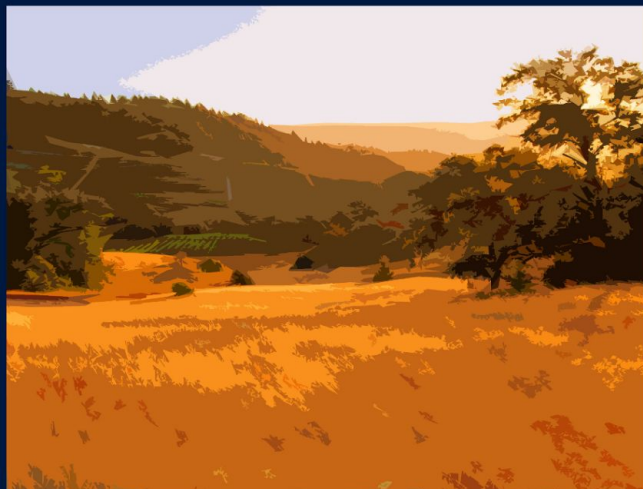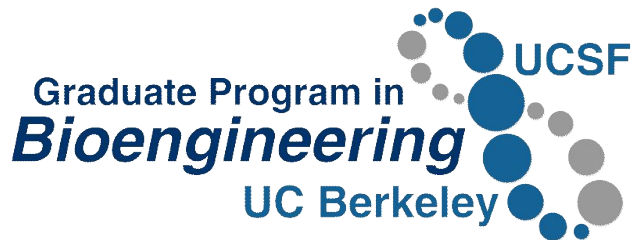
"University of California, Berkeley and University of California, San Francisco Graduate Program in Bioengineering"

Use this logo for EVERYTHING you do!

Hughes, J[1], Pitt B, Depp J. SCIENCE!
[1] **University of California, Berkeley and University of California, San Francisco Graduate Program in Bioengineering**

Use the correct affiliation when you publish!

I have a question, where do I find the answer?

Bioengineering Graduate Handbook
http://bioegrad.berkeley.edu/handbook/introduction

- Graduation checklist
- Requirements for committees
- All the forms!
- Course requirements
- Finance information (fees, stipend…)
- Advising - who does what?
- Many other things!

BEAST Wiki
http://ucbeast.berkeley.edu/

- Tax info
- Rent map
- Course tracks
- Presentations like this one!
- Photos of BEASTies doing cool things
- Links to resources for GSIing
- "Ugh the BEAST wiki totally doesn't have what I think it should have"
  ○ Get involved!

Graduate Program in
Bioengineering
UC Berkeley
UCSF

I've read everything and I still have a question!

It's about the program/my thesis (and not a technical/research problem)

It's field specific (courses, resources…)

- Your **area advisor**
- http://bioegrad.berkeley.edu/currentgrads/research-area-advisors

It's administrative (payment of fellowship, filing forms, dropping classes)

- Berkeley-based: Kristin
- UCSF-based: SarahJane

The person I'm supposed to go to doesn't make sense (it would be awkward, there's a conflict of interest, etc)

- Check in with Kristin or SarahJane for a recommendation of who to ask
- Pick your own mentor
  - (Ask KO/SJT to introduce you if you think it would help)

I have a conflict with my PI/I need an outside opinion

- Your **graduate advisor**
- The head graduate advisor
- Won't disclose your conversation without your permission

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I've read everything and I still have a question!

It's about life outside the program

Taxes? Where to live? Transportation question?
- Your peer advisor!
- Other upper year students

Legal issue (ex: rental contract, landlord is unreasonable, etc)
- http://sa.berkeley.edu/legal
- http://success.ucsf.edu/community-legal-resources
- **Free** legal consultation for students

I'm having difficulty adjusting to grad school, dealing with family or relationships, sexual orientation and identity, coping with personal crises. I'd like to speak with someone confidentially.
- https://uhs.berkeley.edu/counseling
- https://studenthealth.ucsf.edu/healthcare-services/counseling-psychological-services/schedule-mental-health-appointment

My problem isn't on this page!
There's so many resources available to you that we can't list them all - try find someone you trust to help you figure out what's right for you

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