First Semester Freshman Advising
Overview of Freshman Advising

• Ice breaker
• Survey – beginning
• Advising Information
  – Biology Major Requirements
  – I didn’t pass my class 😞
  – What to take next semester
  – Careers for Biology majors
• Survey - end
Ice breaker

Turn to the person next to you and ask the following questions:

1. What is your name?
   • Note: if you already KNOW the person next to you, pick someone else!

2. What do you want to be “when you grow up”?
   • Ask about their career goals

3. Give the person a “Biology Name”...
   For example:
   Mitosis Megan
   Kinesin Kristy

Protein Structures
Survey (beginning)

You will need your mobile devices to complete this survey!

Link to survey:

Password:
Students must complete **120 units** to graduate. **Some students** may require additional units of free electives to reach 120 or more units. *Some courses in area C3 or D5 can also count to fulfill area Z.*
Overview: The Biology major

- Lower Division (100-200 level) BIOL Core (16 units)

- Upper Division (300-400 level) Electives in Concentration of your choice (24 units)
  - declare concentration when you are in Biol 252 (last BIOL Core course)

- Supporting Courses (Math, Chem, Phys)

- Writing requirement
Biological Science Requirements

• Lower Division Core
  o **Biology 151**
    o Cellular and Molecular Biology
  o **Biology 152**
    o Evolution and Organismal Biology
  o **Biology 251 and 253L**
    o Genetics and Cell & Molecular Lab
  o **Biology 252 and 254L**
    o Ecology and Ecology & Organismal Lab
Biological Science Requirements

• Supporting Courses
  o Chemistry - 1 year Gen Chem & 1 year O-Chem and lab
    ▪ CHEM 120A,B; CHEM 301A,B, 302
  o Mathematics - 2 semesters
    ▪ Math 130 + Math 338 OR
    ▪ Math 150A +Math 150B
  o Physics - 2 semesters with lab
    ▪ PHYS 211,211L; 212,212L

• Upper Division Writing Requirement
  o ENGL 301 or 363
Overview

• Biology Major Requirements
• I didn’t pass my class 😞
• What to take next semester
• Careers for Biology majors
Oops, I'm not going to pass one of my classes this semester...

- For all Biology and Supporting Courses, you need a C or higher to pass.
- If you do not pass a class:
  - Consider WHY you did not pass.
    - What can you do differently?
  - Try to retake it next semester
    - This should be an *UNUSUAL EVENT*!
    - Note that retaking classes uses up "repetition of course" units
    - Understand the University policies before you start using the repetition units!
  - Make an appointment and get help!
    - Sam Barrozo, NSM Retention Specialist,
      MH-488, sbarrozo@fullerton.edu
Important!
Consistent Academic Performance is KEY!

I’m going to bring my GPA up later dude.
Required GPA in Remaining Units

<table>
<thead>
<tr>
<th>GPA After 30 Units</th>
<th>Finish w/ 3.0</th>
<th>Finish w/ 3.5</th>
<th>Finish w/ 3.8</th>
<th>Finish w/ 4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Finish w/ 3.0
- Finish w/ 3.5
- Finish w/ 3.8
- Finish w/ 4.0

GPA After 30 Units
Required GPA in Remaining Units

GPA After 30 Units

Finish w/ 3.0
Finish w/ 3.5
Finish w/ 3.8
Finish w/ 4.0

Impossible
Science Fiction

GPA After 60 Units

Required GPA in Remaining Units

- Finish w/ 3.0
- Finish w/ 3.5
- Finish w/ 3.8
- Finish w/ 4.0

GPA After 60 Units
<table>
<thead>
<tr>
<th>Goal</th>
<th>Medical School</th>
<th>Professional programs</th>
<th>Workforce</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA</td>
<td>&gt;3.7</td>
<td>&gt;3.0</td>
<td>&gt;2.0</td>
</tr>
<tr>
<td>Grade forgiveness</td>
<td>Not acceptable</td>
<td>Maybe OK</td>
<td>Not a problem</td>
</tr>
<tr>
<td>Knowledge</td>
<td>MCAT prep</td>
<td>Specific sector</td>
<td>Basic understanding</td>
</tr>
<tr>
<td>Research</td>
<td>Required?</td>
<td>PhD - Much needed</td>
<td>Some experience needed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PharmD – no Internships</td>
<td></td>
</tr>
<tr>
<td>Recommendation letters</td>
<td>4 required</td>
<td>2 good letters</td>
<td>?</td>
</tr>
<tr>
<td>Awards</td>
<td>Helpful</td>
<td>Helpful</td>
<td>?</td>
</tr>
<tr>
<td>Extracurricular</td>
<td>Very High</td>
<td>No</td>
<td>?</td>
</tr>
</tbody>
</table>
Resources for Help…

- Supplemental Instruction (SI)
- Office hours
- **FREE tutoring on campus:**
  Opportunity Center for Science and Math Students (MH-488), University Learning Center (PLN 2nd floor), Math tutoring center (MH-553), and Physics tutoring (MH-600)
- Sam Barrozo, NSM Retention Specialist, MH-488, sbarrozo@fullerton.edu (also for GE questions)
Overview

• Biology Major Requirements
• I didn’t pass my class 😞
• What to take next semester
• Careers for Biology majors
Overview

What classes to take?

- In general, each semester take:
  - one BIOL course
  - one MATH*, and
  - one or two GE courses (many students need 12 units to be a full-time student)

If you are working more than 25 hours per week, a reduced course load is recommended – see handout.

* You need to complete one semester of Calculus (Math 130 or Math 150A) before starting Chemistry.
What to take next semester?

**Biology Courses**

- BIOL 151
- BIOL 152
- BIOL 251 & 253L
- BIOL 252 & 254L

**Supporting Courses**

- MATH 115/125
- MATH 130
- CHEM 120A
- CHEM 120B
Which BIOL class should I take next semester?

Circle your course on the Advising sheet

---

<table>
<thead>
<tr>
<th>If you...</th>
<th>Then for SPRING 2018 TAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have NOT completed any BIOL core courses (C or higher)</td>
<td>BIOL 151</td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017 (C or higher): BIOL 151, but not BIOL 152</td>
<td>BIOL 152</td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017 (C or higher): BIOL 151 and 152</td>
<td>BIOL 251 AND 253L</td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017 (C or higher): BIOL 151, 152, and 273</td>
<td>BIOL 252 AND 254L</td>
</tr>
</tbody>
</table>

Starting in Fall 2017:
- BIOL 251 & 253L replaced BIOL 273
- BIOL 252 and 254L replaced BIOL 274

Students with transfer credit: ensure that you have completed the earlier BIOL core courses before moving onto the later BIOL core courses. For information on transfer equivalencies, see [www.assist.org](http://www.assist.org) or speak with a...
Which MATH or CHEM class should I take next semester?

Circle your course on the Advising sheet →

<table>
<thead>
<tr>
<th>Course 2</th>
<th>If you...</th>
<th>Then for SPRING 2018 TAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have NOT taken MATH OR completed ESM 45, 40</td>
<td>MATH 115</td>
<td></td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017: MATH 115</td>
<td>MATH 130</td>
<td></td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017: MATH 125</td>
<td>MATH 150A</td>
<td></td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017: MATH 130</td>
<td>Move forward in Chemistry – see below (save Math 338 for Junior Year)</td>
<td></td>
</tr>
<tr>
<td>Have completed or will complete in Fall 2017: MATH 150A</td>
<td>MATH 150B</td>
<td></td>
</tr>
<tr>
<td>Have NOT taken a CHEM course and do not have a passing score on CPE</td>
<td>CHEM 115</td>
<td></td>
</tr>
<tr>
<td>Have completed CHEM 115 or will complete in Fall 2017 (C or higher) OR passed CPE</td>
<td>CHEM 120A</td>
<td></td>
</tr>
</tbody>
</table>
Supporting Courses

MATH 115/125 → MATH 130 → CHEM 120A → CHEM 120B

Take Chemistry Placement Exam

PASS

Don’t Pass

Complete CHEM 115
Chemistry placement exam (CPE)

This exam will tell you which Chemistry course to take.
- You need to take this exam to register for Chem 120A.
- You can register for Chem 115 (the prerequisite for Chem 120A) without taking the exam.

Dept. of Chemistry and Biochemistry Test Dates:
Fri Oct 20 and Fri Oct 27 at 1pm
Pre-registration is required at http://nsm.fullerton.edu/testing/cpe/

Testing Center Date:
http://www.fullerton.edu/testing or go to UH-229
Test Date: December 9, 2017
Registration Deadline Date: November 29, 2017
What if I need a 3rd or 4th class in addition to BIOL and MATH?

COURSES 3 and 4 (if needed)

<table>
<thead>
<tr>
<th>If you need additional units</th>
<th>Then for SPRING 2018 TAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAKE</td>
<td>GE ELECTIVES (see below)</td>
</tr>
</tbody>
</table>

Remember: Category B in GE will be completed by your Biology and Supporting Courses as part of the Major. You do not need to worry about taking courses in GE Category B.

GE ELECTIVE RECOMMENDATIONS

<table>
<thead>
<tr>
<th>1st</th>
<th>C1 or C2 / A1 or A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>C4</td>
</tr>
<tr>
<td>3rd</td>
<td>D1, D2, D3, or D4</td>
</tr>
</tbody>
</table>
One important note

You are not "behind"

If you want to attend ANY graduate school, the QUALITY of what you've completed on your transcript is far more meaningful than the quantity of years it took.

Give every class you take your very best effort!
Overview

• Biology Major Requirements
• I didn’t pass my class 😞
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Your Future Career

Whether your future career plans include medicine or research or teaching or....

**IT’S NEVER TOO SOON TO START PLANNING YOUR FUTURE!**
Planning for Graduate or Professional School, or Credential Programs

JUST GOING TO SCHOOL AND GETTING GOOD GRADES IS NOT ENOUGH!

• Get Involved!
  – Volunteering & Shadowing (critical for those wanting to enter health professions)
  – Research Experience

• Prepare!
  – Prerequisite Courses
  – Entrance Exams
Future Careers in: Medicine (M.D. or D.O.), Dentistry, Optometry, Pharmacy, Physician Assistant, Podiatry, and Veterinary.

Advice from Dr Mouttapa:

• Get involved this year!
  – Join a student organization, volunteer, start an internship
  – Gain experience, network and explore your options

• Make an appointment NOW!
  – Don’t wait until you are a junior or senior
  – To Schedule an appointment:
    [http://www.fullerton.edu/healthprofessions/](http://www.fullerton.edu/healthprofessions/)
Advice from Michelle:

• Get Involved!
  ✓ Join a student organization, volunteer, start an internship

• Explore your Options!
  ✓ Attend “day in the life” events to meet people in your future profession
  ✓ Attend workshops on resumes, advising, and much more...
  ✓ For a listing of events:
    www.fullerton.edu/career
What if you are interested in teaching?

CSUF has credential programs for Elementary Level Teaching (K-6), Middle-School Teaching (6-9) and High School Teaching (9-12)

Start NOW!
✓ Get involved
✓ Get experience
✓ Get prepared

Make an appointment:
Dr. Megan Tommerup
mtommerup@fullerton.edu
Science Education Coordinator for Biology.
For a list of Student Clubs and Organizations at CSUF go to: https://fullerton.campuslabs.com/engage/organizations

*It does not have to be a “career oriented” club!*

*Philanthropic, Service, Political Action, Recreation, Special Interest*  
*All of these COUNT!*  
*The idea is to just get out there and get involved!*
Final Thoughts

• Next Semester
  – Check your CSUF email in March!
  – You will have group advising again (usually, right after Spring break).

• For Additional Help
  – Biology Advising Resource Page
    http://www.fullerton.edu/biology/undergrad/advising.asp
  – Biology advising questions bioladvising@fullerton.edu
  – Biology Undergraduate Advising Handbook

• Survey password:

  Please hand in the WHITE copy of the form to the Adviser for your hold to be removed!