Welcome to the UCSC MCD Biology Department

Olivia, Brenna, Dianne and Ali want to support your success at UCSC!
Big Picture: What classes do you need to take to be a Bio major?

- All majors in the department require the same qualification classes; you can take your time deciding on your major in consultation with your college adviser.

- CHEM 1A, 1B, 1C, 8A, BIOL 20A, BIOE 20B, BIOL 20L, MATH 11A or 19A

- Grades of C or better in these 8 courses for MCD, Neuroscience, & Biology BS majors. Grades of C+ or better in these 8 courses for Human Bio majors.

- First-years must complete all qualifying classes by their 5th quarter so they can petition to declare by their 6th quarter.

- BIOL 20A, BIOL 100, BIOL 105, BIOL 101, and BIOL 110 must be taken at UCSC.

- [MCD Dept Majors Qualification Policy Details](#)
What classes should I enroll in this Fall?

● COLL 1
● 1 Math Class
  ● If you place in Math 11A or higher, you should also take a Chem class
  ● If you place in Math 2 or 3, you should take a major exploration class
● Continue reading for your 3rd class
Which Math Class?

- **ALEKS** an online assessment & learning tool that provides math instruction
- **AP scores may arrive after your enrollment date; every student should take ALEKS!**
- After first assessment, continue to use ALEKS to work on improving your math skills.
- Improve math placement for fall enrollment
- Take up to 3 assessments; your highest score will be used to satisfy your math enrollment prerequisites for other math classes and Chemistry classes
More about ALEKS

Places you into MATH 2, or MATH 3, or MATH 11A/19A/20A

**Math 11 series**—standard Calculus series that most Bio majors take

**Math 19 series** – Calculus series required by Physics and Engineering; this series is more challenging

**Math 20 series** – Honors level Calculus

<table>
<thead>
<tr>
<th>ALEKS Score</th>
<th>MP Tier</th>
<th>Math Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below 60</td>
<td>100</td>
<td>MATH 2</td>
</tr>
<tr>
<td>60-69</td>
<td>200</td>
<td>MATH 3</td>
</tr>
<tr>
<td>70-74</td>
<td>300</td>
<td>MATH 11A</td>
</tr>
<tr>
<td>75-84</td>
<td>400</td>
<td>MATH 11A or MATH 19A</td>
</tr>
</tbody>
</table>
| 85-100      | 500     | MATH 11A, 19A, or 20A
Which Chem Class?

- **Chem 1A**
  - Pre-reqs: previous or concurrent enrollment in MATH 3 (or equivalent), or a math placement score of 300+

- **Chem 1B**
  - no pre-reqs, some high school chem recommended

- **Optional Chemistry Self Assessment**
Chemistry Self Assessment

Students who want to make sure they are prepared for the introductory general chemistry sequence are encouraged to take the Chemistry Self-Assessment offered in Canvas (Online Learning Management System utilized by UCSC to create and manage lessons, courses, quizzes and other course materials). Your score on the exam will help you determine when to take general chemistry.

Assessment Guidelines:

- You may use a calculator and periodic table when taking the assessment.
- The exam consists of 42 multiple choice questions.
- There is no time limit, you may take as long as needed to complete the exam.
- You will receive immediate feedback after submitting your exam.
- The assessment is advisory, not required to enroll.
- Any UCSC student with an active CruzID Gold password may take the assessment.
# Math Based Fall Quarter Course Plan

**Take ALEKS**

<table>
<thead>
<tr>
<th>Math 2</th>
<th>Math 3</th>
<th>Math 11A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. COLL 1 (core)</td>
<td>2. COLL 1</td>
<td>2. COLL 1</td>
</tr>
<tr>
<td>3. Psych 1 or Econ 1</td>
<td>3. CHEM 1B (+1M for Human Bio)</td>
<td>3. CHEM 1A</td>
</tr>
</tbody>
</table>

Planning for the Year
MCD advisers will email you more schedule details for summer quarter and beyond in Winter or Spring
Sample Schedule for student placing into MATH 3

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MATH 3</td>
<td>1. MATH 11A or 19A</td>
<td>1. BIOL 20A</td>
</tr>
<tr>
<td>2. COLL 1 (core)</td>
<td>2. CHEM 1A (prerequisite = MATH 3)</td>
<td>2. CHEM 1C/N or CHEM 1B</td>
</tr>
<tr>
<td>3. CHEM 1B or Psych 1 or Econ</td>
<td>3. Writing/GE/Major Exploration</td>
<td>3. GE/ME</td>
</tr>
</tbody>
</table>

MCD advisers will email you more schedule details for summer quarter and beyond in Winter or Spring
## Sample Schedule for students placing into MATH 11A or 19A

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
</table>
| 1st year | 1. MATH 11A or 19A  
2. CHEM 1A  
3. COLL 1 (core) | 1. BIOL 20A  
2. CHEM 1C/N  
3. GE or Writing or Major Exploration (ME) | 1. BIOE 20B  
2. BIOL 20L (2 units)  
3. CHEM 1B (+ 1M for Human Bio)  
4. GE/Writing/ME |
| 2nd year | 1. MATH 11B or 19B  
2. CHEM 8A & L  
3. GE or ME | 1. BIOL 105  
2. CHEM 8B  
3. GE or ME | 1. BIOL 100  
2. STAT 5 or 7 & L  
3. GE or ME |

Sample 4-year plans: [Scroll to #5 Sample Plans](#) & select proposed major
Major to Success

- Only take 2 STEM courses (10-12 units) each quarter
- Every class you take to fulfill a major requirement must be taken for a letter grade
- Take ALEKS today and work in the module to improve your score
Let’s Make an Qualification Plan!

1. Go to our Qualification website and make a copy of the Qualification Planner using your last name and SID in the title

   a. Start by filling in the classes you will enroll in Fall quarter (using info from ALEKS and Chem self-assessment)
   
   b. We recommend only two STEM courses per quarter! Your third course should be a GE. If all your GE’s are done, pick out another course of interest.
   
   c. Use the second tab on the qual planner to see when classes are offered
Let’s Plan and Get to Know Each Other

● Log into your @ucsc.edu select Qual Planner and type (or use the drop down menu) what classes you plan to enroll in this Fall
  ○ Check out the Qual Planner Tutorial!

● Discussion Board Post #1
  ● Introduce Yourself!
    ○ Name + What you like to do for fun + Where you like to do it
      ■ Ex. I’m Olivia and I like Stand Up Paddleboarding in the Santa Cruz Harbor and playing with my labradoodle puppy
    ○ Let us know what your high and low points of the summer were and what you are excited for September!
Module Two Coming Next Week