BIO 195 BIO Bootcamp

Instructors:

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Office: Chapman E303  Office Hours:  2 PM Tuesdays, 9:30 AM Wednesdays and by appointment

Class Format: This course consists of three intensive days of study followed by weekly meetings throughout the semester.

Meeting Time and Place: Class is being held on Friday 8/22 1:00-4:30pm and 6:00-7:30 pm in 053-E336, Saturday/Sunday 8/23-8/24 9:00-11:50 am and 1:00-4:50 pm in 053-E336, Monday 8/25 12:00-1:50 pm in 053-E104.

Place to be determined: Weekly meetings throughout the semester or attendance in 75% of SI activities.

Units: 2  Grading Basis: Credit/No Credit

Texts: Chemistry, A Molecular Approach (Tro) and Life: The Science of Biology, Sadava et al.

This course is a BIO and CHEM Review for students planning to enroll in BIO 210 without strong BIO or CHEM background.

Prerequisites: Consent of Instructor

Evaluation:

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>In class work</td>
<td>50 pts</td>
</tr>
<tr>
<td>Exam 1</td>
<td>100 pts</td>
</tr>
<tr>
<td>Exam 2</td>
<td>250 pts</td>
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<tr>
<td>Participation in weekly meetings</td>
<td>100 pts</td>
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</tbody>
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Course Total: 500 points

Students with Disabilities: Students with disabilities who may need accommodations please see one of us as soon as possible during office hours or contact me via email. Or, you may contact: Student_Disability_Resources@csumb.edu; Phone: 831/582-3672 voice, or 582-4024 fax/TTY; http://sdr.csumb.edu

Tentative Schedule of Topics:

FRIDAY: General and Organic Chemistry Review Such As:

- Lewis Structures
- Polarity and Shape
- Intermolecular Forces
SATURDAY: Biomolecules and Water, Lab Skills
  o Water as a solvent and Hydrogen Bonding/Solubility of biomolecules
  o Amino Acids and Proteins
  o Carbohydrates
  o Nucleic Acids
  o Lipids
  o Graphing in Excel
  o Mendeley/citations
  • EXAM 1: 3 pm

SUNDAY: Critical Biology Concepts
  o Cell Structure
  o Biomolecular processes (e.g. Transcription, Translation)
  o How organisms handle solids (digestion), liquids (circulation) and gases (respiration)
  o Photosynthesis
  o Genetics

MONDAY
  • EXAM 2: Noon