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<td><strong>BA Biochemistry</strong></td>
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| 1. Demonstrate a foundational understanding of organic, analytical, and physical chemistry and advanced knowledge in biochemistry. | a. CHEM 2430/2440: Organic 1&2  
 b. CHEM 2200: Analytical 1  
 c. CHEM 3330/3340: Physical 1 or 2  
 d. CHEM 4610/4620: Biochem 1&2 | a. Overall percentile on ACS exam  
 b. Overall percentile on ACS exam  
 c. Overall percentile on ACS physical exam, 2: Total score on cumulative final exam  
 d. Overall percentile on ACS exam in Biochem 2 | a-d. 66th percentile exceeds, 45-66 meets, 33-44 approaching, <33 does not meet  
 c. For cumulative final: 90% exceeds, 80-89 meets, 70-79 approaching, <70 does not meet | Every offering | Year 1 of a 3-year cycle |
| 2. Demonstrate proficiency of basic (general, organic, analytical, and biochemistry) laboratory techniques and conduct laboratory experiments safely. | a. CHEM 1115/1125: General 1&2 Lab  
 b. CHEM 2435/2445: Organic 1&2 Lab  
 c. CHEM 2205: Analytical 1 Lab  
 d. CHEM 4615: Biochem 1 Lab  
 e. CHEM 2430/2440: Orgo 1&2  
 f. CHEM 2200: Analytical 1  
 g. CHEM 4610/4620: Biochem 1&2 | a. Score on Gen Chem 2 lab Boiling Point Elevation and score on safety exam in Gen Chem lab 1&2.  
 b. Technique points for Orgo 2 lab (Lab 7: E1/E2 Elimination) and score on safety exam in Orgo lab 1&2.  
 c. Semester score  
 d. Score on Results section for Biochem 1 lab (Unknown Amino Acid Identification Using Acid-Base Titrations and TLC)  
 e. Score on specific questions on ACS exam in Orgo 2  
 f. Score on specific questions on ACS analytical Exam  
 g. Score on specific questions on ACS Exam in Biochem 2 | a,b. For score: 90% exceeds, 80-89 meets, 70-79 approaching, <70 does not meet.  
 c-d. 90% exceeds, 80-89 meets, 70-79 approaching, <70 does not meet.  
 e-g. If course % correct on each question meets or exceeds Diff Index provided by ACS, meets expectations. If below, does not meet. | Every offering | a-d. Year 2 of a 3-year cycle  
 e-g. Year 1 of a 3-year cycle |
| 3. Collect, interpret, and analyze quantitative data. | a. CHEM 2430/2440: Orgo 1&2  
 b. CHEM 2200: Analytical 1  
 c. CHEM 2205: Analytical 1 Lab  
 d. CHEM 4610/4620: Biochem 1&2  
 e. CHEM 4615: Biochem 1 Lab | a. Score on specific questions on ACS exam in Orgo 2  
 b. Score on specific questions on ACS analytical exam  
 c. Semester score  
 d. Score on specific questions on ACS Exam in Biochem 2  
 e. Score on Results, Discussion, and Conclusion sections of Biochem 1 lab (Unknown Amino Acid Identification Using Acid-Base Titrations and TLC) | a,b,d. If course % correct on each question meets or exceeds Diff Index provided by ACS, meets expectations. If below, does not meet.  
 e-c. 90% exceeds, 80-89 meets, 70-79 approaching, <70 does not meet | Every offering | a-d. Year 1 of a 3-year cycle  
 e. Year 2 of a 3-year cycle |
| 4. Communicate scientific results effectively. | a. CHEM 2435: Orgo 1 Lab  
 b. CHEM 4615: Biochem 1 Lab | a. Score on end of semester presentation in Orgo 1 Lab  
 b. Score on Biochem 1 lab (Unknown Amino Acid Identification Using Acid-Base Titrations and TLC) | 90% exceeds, 80-89 meets, 70-79 approaching, <70 does not meet | Every offering | Year 2 of a 3-year cycle |