Ch 3 and 5. Biochemical Techniques

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| Objective | In-text reading | Pre-class materials/activities | In-class materials/activities | Practice problems from text |
| 1. Describe the molecular basis for some techniques used to isolate and characterize biomolecules in general, and proteins and amino acids specifically. | 3.4, 3.5, 5.2, 5.3 | Biochemical Techniques Hayden Lecture, Parts 1 and 2  Applied Biochemical Techniques Video Series | S5 – Tools of Biochemistry | 5th Ed. Ch 5 – 3, 5, 7, 9  4th Ed. Ch. 5 – 3, 5, 7, 9  3rd Ed. Ch. 5 – 1, 3, 4, 6 |
| Select proper techniques or sequence of techniques to accomplish a given isolation or biomolecular characterization | 3.4, 3.5, 5.2, 5.3 | Biochemical Techniques Hayden Lecture, Parts 1 and 2  Applied Biochemical Techniques Video Series | S5 – Tools of Biochemistry  S6 – Problem Solving Challenge: LWBGase | S6 – Post-Activity Skill Exercises #1.  5th Ed. Ch. 5 – 23, 25  4th Ed. Ch. 5 – 11, 15  3rd Ed. Ch. 5 – 8, 9 |
| Use critical thinking and problem solving skills to identify necessary tools to elucidate aspects of protein structure | 3.4, 3.5, 5.2, 5.3 | Biochemical Techniques Hayden Lecture, Parts 1 and 2  Applied Biochemical Techniques Video Series | S5 – Tools of Biochemistry  S6 – Problem Solving Challenge: LWBGase | S6 – Post-Activity Skill Exercises #2.  5th Ed. Ch. 5 – 31, 33, 17  4th Ed. Ch. 5 – 23, 25, 27  3rd Ed. Ch. 5 – 14, 17, 19 |