

**BOSTON REED COLLEGE®**  
**Intravenous Compounding Program**  
**Student Course Outline**

| Week / Assignment   | Theory   | Lab  |
|---|--|--|
| <b>1</b> Read Dosage Calculations<br>Chapters 10 and 12<br><br>Complete Review Sets<br><br>Pharmacy Practice<br>Chapter 18<br>Assessment p. 308-310 | Parenteral Dosage of Drugs<br><br>Using Ratio-Proportion to<br>Calculate Dosages<br><br>Pharmacy Infection Control                                   | <ul style="list-style-type: none"> <li>• Handwashing</li> <li>• Gown, Mask, Gloves</li> <li>• Calculate dosages using various drug labels and syringes</li> <li>• Observe set-up and use of the Pharm Assist® pump</li> </ul>      |
| <b>2</b> Pharmacy Practice<br>Chapter 14<br>Assessment p. 238-239<br><br>ASHP Handout<br>Chapter 9<br>Self-assessment p. 229-232                    | Parenteral Admixture<br>Services<br><br>Aseptic Technique, Sterile<br>Compounding and<br>Intravenous Admixture<br>Programs                           | <ul style="list-style-type: none"> <li>• Prepare an IV order using aseptic procedure in the laminar airflow hood</li> <li>• Observe demonstration of a Spill Kit</li> <li>• Identify products used with cytotoxic drugs</li> </ul> |
| <b>3</b> Read Dosage Calculations<br>Chapter 14 and 15<br><br>Complete Review Sets  | Intravenous Solutions,<br>Equipment and Calculations<br><br>Advanced Pediatric<br>Calculations   | <ul style="list-style-type: none"> <li>• Calculate pediatric dosages using a Nomogram</li> <li>• Calculate and prepare an IV admixture using “preservative free precautions” for a pediatric order</li> </ul>                      |
| <b>4</b> LAB <ul style="list-style-type: none"> <li>• Observe the preparation of a TPN Pool in the laminar airflow hood</li> </ul>                  | LAB <ul style="list-style-type: none"> <li>• Calculate and set up a pooling field using positive (+) and negative (-) syringe positioning</li> </ul> | LAB <ul style="list-style-type: none"> <li>• VIDEO: BAXTER Automix 3+3®</li> <li>• Observe the preparation of a TPN using the Automix®</li> <li>• Calibrate and program the Automix® using Gravimetrics</li> </ul>                 |
| <b>5</b> FINAL REVIEW   | WRITTEN FINAL REVIEW   | LAB FINAL REVIEW   |
| <b>6</b> FINAL  | WRITTEN FINAL  | LAB FINAL  |

Textbooks:

Pharmacy Practice for Technicians Third Edition, Sr. Jane M. Durgin, Zachary I. Hanan, Delmar  
 Dosage Calculations 7th Edition, Gloria D. Pikar, Delmar Cengage Learning  
 American Society of Health System Pharmacists Second Edition, 1998