

Sussex County Community College
Newton, NJ 07860
CHEM 112L

Textbook: SCCC Lab Manual available from bookstore

| Week | Topics | Experiment | Before Class |
|------|--|------------|---|
| 1 | Policies. Strengthening the Foundation. Review for safety exam. | 21 | Read Lab 21 Do pre-lab |
| 2 | Calorimetry: Determine Specific Heat. Take safety exam; grade of 80 or higher is required to do future labs. | 22 | Read Lab 22 Do pre-lab. Study guide at drlchem.com/chem112L |
| 3 | Calorimetry: Determine Heat of Reaction** | 23 | Read Lab 23 Do pre-lab |
| 4 | Intermolecular Forces Research topic due to instructor | 24 | Read Lab 24. Do pre lab see drlchem.com |
| 5 | Colligative Properties: Lowering Freezing Point | 25 | Read Lab 25 Do pre-lab |
| 6 | Coordination Compounds | 26 | Read Lab 26 Do pre-lab |
| 7 | Chemical Kinetics: Iodine Clock | 27 | Read Lab 27 Do pre-lab |
| 8 | Calculating an Equilibrium Constant** | 28 | Read Lab 28. Do pre lab see drlchem.com |
| 9 | pH of Acid, Base, and Salt Solutions | 29 | Read Lab 29 Do pre-lab |
| 10 | Standardize NaOH with KHP | 30 | Read Lab 30 Do pre-lab |
| 11 | Buffers and pH | 31 | Read Lab 31 Do pre-lab |
| 12 | Solubility and Complex Ions | 32 | Read Lab 32 Do pre-lab |
| 13 | Electrochemistry Presentation slides due to instructor | 33 | Read Lab 33. Do pre lab see drlchem.com |
| 14 | Analyze Drinking Water for Cations and Anions | 34 | Read Lab 34 Do pre-lab |
| 15 | Student presentations on science, ethics, and information literacy** | | see drlchem.com |

* Dates and topics subject to change. ** Writing across the curriculum.