**CHEM 160A Course Schedule** **(Tentative)**

(If necessary, changes will be announced in class, and a revised schedule will be posted online.)

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| **Date** | **Topic(s)** | **Chapter Sections** | **Problems & Case Studies (CS) Due** |
| M 8/29 | Course Logistics, Prebiotic Evolution |  |  |
| W 8/31 | Prebiotic Evolution, Thermodynamics | 1.1, 1.2 |  |
| F 9/2 | Thermodynamics | 1.3 |  |
| M 9/5 | Labor Day (No Class) |  |  |
| W 9/7 | Thermodynamics; Noncovalent Interactions | 2.1 |  |
| F 9/9 | Noncovalent Interactions | 2.2 | Ch. 1 (all) |
| M 9/12 | Buffers | 2.2, Box 2-1 |  |
| W 9/14 | Nucleic Acid Structure | 3.1, 3.2 |  |
| F 9/16 | Nucleic Acid Function | 3.3, 3.4 | Ch. 2 (all), CS 1 |
| M 9/19 | Nucleic Acid Laboratory Techniques | 3.4, 3.5, Box 3-1 |  |
| W 9/21 | Stereochemistry; Amino Acids | 4.2, 4.1A | Ch. 3 (all) |
| F 9/23 | Amino Acids, Peptide Bonds, Derivatives | 4.1B,C,D, 4.3 |  |
| M 9/26 | Polypeptides, Primary Protein Structure | 5.1 | Ch. 4 (all) |
| W 9/28 | Protein Secondary Structure | 6.1 |  |
| F 9/31 | Protein Tertiary & Quaternary Structure | 6.2, 6.3 | Ch. 5 (1 & 2) |
| M 10/3 | Protein Stability & Folding | 6.4, 6.5 |  |
| W 10/5 | Protein Purification & Analysis | 5.2 |  |
| F 10/7 | Protein Sequencing & Evolution | 5.3, 5.4 | Ch. 6 (all) |
| M 10/10 | Protein Function: Hemoglobin | 7.1 |  |
| W 10/12 | Protein Function | 7.2 |  |
| F 10/14 | Exam 1 | 1, 2, 3, 4, 5.1, 6 |  |
| M 10/17 | Protein Function | 7.3 | Ch. 5 (3 – 20), CS 5 |
| W 10/19 | Monosaccharides | 8.1 |  |
| F 10/21 | Monosaccharides & Disaccharides | 8.1, 8.2 |  |
| M 10/24 | Polysaccharides | 8.2 | Ch.7 (all), CS 4 |
| W 10/26 | Glycoproteins | 8.3 |  |
| F 10/28 | Fatty Acids, Triacylglycerols, Diacylglycerols | 9.1A,B,C |  |
| M 10/31 | Glycerophospholipids, Eicosanoids, Steroids | 9.1C,D,E,F |  |
| W 11/2 | Lipid Bilayers & Membrane Proteins | 9.2, 9.3 | Ch. 8 (all), CS 2 |
| F 11/4 | Biological Membranes | 9.3, 9.4 |  |
| M 11/6 | Biological Membranes | 9.4 |  |
| W 11/9 | Membrane Transport: Thermodynamics, Passive-Mediated Transport | 10.1, 10.2 |  |
| F 11/11 | Veteran’s Day (no school) |  |  |
| M 11/14 | Membrane Transport: Active Transport | 10.3 | Ch. 9 (all) |
| W 11/16 | Enzymatic Catalysis: Overview | 11.1, 11.2 |  |
| F 11/18 | Catalytic Mechanisms | 11.3A,B,C |  |
| M 11/21 | Catalytic Mechanisms | 11.3D,E | Ch.10 (all) |
| W 11/23 | Enzyme Kinetics | 12.1A,B |  |
| F 11/25 | Thanksgiving Holiday |  |  |
| M 11/28 | Enzyme Kinetics | 12.1C,D | Ch. 11 (1-11), CS 3 |
| W 11/31 | Enzyme Inhibition | 12.2 |  |
| F 12/2 | Allosteric & Covalent Regulation of Enzymes | 12.3 |  |
| M 12/5 | Catch-up &/or Review |  | Ch. 12 (1 – 18) |
| W 12/7 | Review |  | Ch. 12 (19 – 25) |
| F 12/9 | Review |  |  |
| **M 12/12** | **Final Exam, 10:15 am-12:15 pm** | 50%: 7-12; 50%: Cumulative | |