# Biochemistry Laboratory (CHE 458)

| **Potential Instructors** | Dr. Pradyumna Pradhan; pkpradha@uncg.edu  
Dr. Ethan Taylor; ewtaylor@uncg.edu |
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<tr>
<td><strong>Prerequisites</strong></td>
<td>CHE 456, CHE 353 (or CHE 354), and CHE 333</td>
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<td><strong>Corequisites</strong></td>
<td>None</td>
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<td><strong>Sample Course Materials</strong></td>
<td><strong>Lab Manual:</strong> Laboratory experiment instructions will be provided as handouts.</td>
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<td><strong>For Whom Planned</strong></td>
<td>BCHEM majors and CHEM with concentration in BCHEM majors</td>
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| **Topical Outline**       | - Measurement of Protein Concentration through Bradford Assay  
- Purification and Kinetic Characterization of Horseradish Peroxidase  
- Crystal Structure Analyses of Beta-Galactosidase  
- Purification of Kinetic Characterization of Beta-Galactosidase  
- Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis (SDS-PAGE)  
- Evaluation of Restriction Digestion of DNA through Agarose Gel  
- Polymerase Chain Reaction (PCR) |
| **Notes**                 | * To request a comprehensive syllabus, you may contact the instructor for your section directly.  
§ Subject to change |