# Biochemistry II (CHE 457)

| Potential Instructors* | Dr. Jonathan Chekan; jrchekan@uncg.edu  
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| Prerequisites         | CHE 456 |
| Corequisites          | None |
| Sample Course Materials | **Textbook:** *Biochemistry* by Lubert Stryer; Jeremy Berg; John Tymoczko; Gregory Gatto |
| For Whom Planned      | CHEM and BCHE majors |

| Topical Outline§       | ▪ Lipids and Membranes  
|                        | ▪ Fatty Acid Metabolism  
|                        | ▪ Oxidative Phosphorylation  
|                        | ▪ Protein Turnover and Amino Acid Catabolism  
|                        | ▪ The Biosynthesis of Amino Acids  
|                        | ▪ Nucleotide Metabolism  
|                        | ▪ DNA Replication, Repair, and Recombination  
|                        | ▪ RNA Synthesis and Processing  
|                        | ▪ Protein Synthesis  
|                        | ▪ The Control of Gene Expression in Prokaryotes  
|                        | ▪ The Control of Gene Expression in Eukaryotes |

**Notes**

* To request a comprehensive syllabus, you may contact the instructor for your section directly.

§ Subject to change