## Organic Chemistry I (CHE 351)

| Potential Instructors* | Dr. Bruce Banks; rbbanks@uncg.edu  
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| Prerequisites | CHE 114 |
| Corequisites | CHEM and BCHE majors: CHE 353 lab  
| Other majors: None |
| Sample Course Materials | **Textbook:** *Organic Chemistry* by Paula Y. Bruice  
| **Homework Assignments:** Sapling Learning |
| For Whom Planned | CHEM and BCHE majors & other science majors |
| Topical Outline§ | - Electronic Structures and Bonding  
| - Acids and Bases  
| - Nomenclature  
| - Physical Properties of Organic Compounds  
| - Representations of Structure  
| - Conformations of Alkanes and Cycloalkanes  
| - Constitutional Isomers  
| - Stereoisomers and Chirality  
| - Reactions of Alkenes and Alkynes  
| - Substitution and Elimination Reactions of Alkyl Halides  
| - Multistep Synthesis  
| - Delocalized Electrons and Their Effect on Stability, $pK_a$, and Reaction Products  
| - Spectroscopy (with Main Focus on the IR and NMR Spectroscopies) |
| Notes | May not be taken more than twice. |

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