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**Instructor:** Steven Bruner [bruner@ufl.edu](mailto:bruner@ufl.edu) Office: Leigh Hall 404

**Office hours:** T 2-3pm, W 10-11am and F 3-4pm.

**Text:** *Organic Chemistry with Biological Applications*, by John McMurry, 3rd Edition, Cengage (2015)

*Recommended:* Molecular model kit (Kit #1 suggested): <http://www.darlingmodels.com>

**Course Description:** This is a rigorous, one-semester overview of the structure, properties, and reactions of organic compounds with a focus of biologically relevant systems. This is the first half of a two-semester sequence in organic/biochemistry. The prerequisites for this course are CHM 2046 or CHM2047 or CHM2051 and CHM 2046L, or the equivalent.

**Attendance:** You should plan to arrive at class on time and attend all lectures – you'll find it is easier to keep up if you are attending regularly and are actively engaged in the classroom. Make-up exams will only be granted for absences consistent with UF policy. See UF policy: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

**Course grading:** There will be 5 short quizzes (~20 minute), two exams and one cumulative final given in class on the dates indicated on the schedule. The lowest quiz grade will be dropped (no make-up quizzes) and the remaining four will count toward 25% on the final grade. The two exams will count for 50% and the final, 25%. Course grades will be assigned on a curve with the following percentages used for guidance: 100-85% A, 84-72% B, 71-60% C, 59-50% D, 50-00% F. For information on UF's Grading Policy, see: <http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

**Practice problems:** Suggested problems relevant to the quizzes and exams will be listed every week. Practice at problem solving is a common and proven way to succeed in this course.

**Academic honesty:** Any act of academic dishonesty will be reported to the Dean of Students, and may result in failure of the assignment in question and/or the course. For University of Florida's honor code, see <http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>.

**Accommodations for students with disabilities** Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Contact the Disability Resources Center (<http://www.dso.ufl.edu/drc/>) for information about available resources for students with disabilities.

**TA office hours:** There are two teaching assistants for this course (Prabhanshu Tripathi, [ptripathi@chem.ufl.edu](mailto:ptripathi@chem.ufl.edu) and Sandy Guntaka, [nguntaka@chem.ufl.edu](mailto:nguntaka@chem.ufl.edu)). In addition to their office hours (TBA), teaching assistants will be available in the Organic Chemistry Learning Center in Flint 258, Monday through Friday.

## Approximate Course Schedule

<b>1</b>	8/23/2016		Intro, Ch 1 Structure & Bonding
<b>2</b>	8/25/2016		Ch 1 & 2 lecture Polar covalent bonds; Acids/Bases
<b>3</b>	8/30/2016		Ch 1 & 2 lecture
<b>4</b>	9/1/2016		Ch 3 Organic Compounds: Alkanes & Stereochemistry
<b>5</b>	9/6/2016	quiz #1	Ch 3 & 4 Organic Compounds: Cycloalkanes & Stereochemistry
<b>6</b>	9/8/2016		Ch 4 lecture
<b>7</b>	9/13/2016		Ch 5 Stereochemistry at Tetrahedral Centers
<b>8</b>	9/15/2016		Ch 6 An overview of Organic Reactions
<b>9</b>	9/20/2016		Ch 7 Alkenes and Alkynes
<b>10</b>	9/22/2016	quiz #2	Ch 7 lecture
<b>11</b>	9/27/2016		Ch 7 & 8 lecture Reactions of Alkenes and alkynes
	9/29/2016	exam #1	
<b>12</b>	10/4/2016		Ch 9 Aromatic Compounds
<b>13</b>	10/6/2016		Ch 9 lecture
<b>14</b>	10/11/2016		Ch 10 Structure Determination: Mass Spec and IR Spectroscopy
<b>15</b>	10/13/2016		Ch 11 Structure Determination: Nuclear Magnetic Resonance
<b>16</b>	10/18/2016		Ch 12 Organohalides: Nucleophilic substitutions and eliminations
<b>17</b>	10/20/2016	quiz #3	Ch 12 & 13 Alcohols, Phenols and Thiols: Ethers and Sulfides
<b>18</b>	10/25/2016		Ch 13 lecture
<b>19</b>	10/27/2016		Ch 14 lecture Aldehydes and Ketones: Nucleophilic addition Reactions
<b>20</b>	11/1/2016		Ch 14 lecture
<b>21</b>	11/3/2016		Ch 15 lecture Carboxylic Acids & Nitriles
<b>22</b>	11/8/2016	quiz #4	Ch 16 lecture Carboxylic acid derivatives: Nucleophilic acyl substitution
<b>23</b>	11/10/2016		Ch 17 lecture Carbonyl -substitution and Condensation Reactions
	11/15/2016	exam #2	
<b>24</b>	11/17/2016		Ch 17 & 18 lecture Amines and Heterocycles
<b>25</b>	11/22/2016		Ch 18 lecture
<b>26</b>	11/29/2016	quiz #5	Ch 19 Biomolecules
<b>27</b>	12/1/2016		Ch 19 Biomolecules
	12/6/2016	Final exam	