CHM 6302 home page 8/26/11 2:43 PM



## The Chemistry and Biology of Nucleic Acids CHM 6302, Section 4039 Fall 2011

General information

Course news

Grading information

Academic honesty policy

For students with disabilities

Reading materials

Lecture schedule

Hints and suggestions **General information** 

Course news The first lecture will be held on Monday, August 22 in 8/17/11 121 Flint Hall. The first papers that will be

121 Flint Hall. The first papers that will be discussed can be found on the <u>Reading Materials</u>

page.

Instructor Jon D. Stewart, 102 Leigh Hall, jds2@chem.ufl.edu

Lectures Monday, Wednesday and Friday, 2<sup>nd</sup> period (8:30

a.m. - 9:20 a.m.), 121 Flint Hall

Office hours Monday, 3<sup>rd</sup> period (9:35 a.m.- 10:25 a.m.)

**Wednesday, 4<sup>th</sup> period** (10:40 a.m. - 11:30 a.m.)

Friday, 3<sup>rd</sup> period (9:35 a.m.- 10:25 a.m.) and other mutually convenient times

Objectives This class will utilize specific examples to provide a

general understanding of topics related to nucleic acids. In addition to discussions of DNA and RNA, lectures will also introduce students to biochemical mechanisms, the chemistry of phosphoryl transfer, protein-nucleic acid interactions and the use of kinetic studies to understand

enzymes.

Prerequisites There are no prerequisites for this course, apart from

undergraduate organic chemistry (CHM 2210/2211,

CHM 3217 or equivalent). An undergraduate

biochemistry course will be helpful, but not essential.

Classroom While attendance is voluntary, the lectures are an attendance essential component of the experience for this class

essential component of the experience for this class. All of the reading material is derived from review articles or the primary research literature and the classroom lectures

will explain and expand upon this material.

**Reading** In general, lectures will be based on one or two key references. Other papers that provide background

material or interesting extensions of the primary material will also be given. The reading list will be posted on this web site approximately one week prior to the lecture and CHM 6302 home page 8/26/11 2:43 PM

copies of the papers will also be available on-line. **Exam questions will be based only on what was covered in the lectures.** In addition to papers in the literature, students may also find the following general references useful:

- Nucleic Acids in Chemistry and Biology, 3<sup>rd</sup>
  Edition. Blackburn, G.M.; Gait, M.J; Loakes, D.;
  Williams, D.M. Royal Society of Chemistry, 2006.
- <u>Biochemistry</u>, 5<sup>th</sup> <u>Edition</u>. Berg, J.M.; Tymoczko, <u>J.L.</u>; Stryer, L. New York: W.H. Freeman and Company, 2002.
- <u>Lehninger Principles of Biochemistry</u>, 5th <u>Edition</u>. <u>Nelson</u>, D. L.; Cox, M. M. New York: Worth Publishers, 2008.
- <u>DNA Replication</u>, 2nd Edition. Kornberg, A.;
   <u>Baker</u>, T. A. New York: W.H. Freeman and Company, 1992.

General information | Course news | Grading information | Academic honesty policy | For students with disabilities | Reading materials | Lecture schedule | Hints and suggestions



Copyright (c) 2011 University of Florida. All rights reserved. Last updated 8/17/11 by <u>J.D.S.</u>