

**Time and Location:** MWF 11:40-12:40 in LA 205

**Textbook:** Raven, P.H. and G.B. Johnson. 2008. Biology 8<sup>th</sup> edition. McGraw-Hill.

**Text Website:** Go to: <http://www.mhhe.com/raven8> then follow the instructions. It's a great study tool containing quizzes, outlines and links to other biology sites.

**Instructor:** Dr. Kurt A Toenjes

**Office:** 133 Science Hall

**Research Lab:** 103 Science Hall

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**Office Hours:** MWF 1:30 – 2:30 PM, or by appointment.

Welcome to Biology 178. This is the first course in the Biology core for students majoring in Biology. It emphasizes principles of biology related to the unity of life. Embracing the realization of the impact Biology has in our everyday lives will help you relate the various topics we will study to your life, increase your interest in the different disciplines of Biology, and aid you with learning the material.

**Assessment:** Exams will be used to test your knowledge of biological concepts presented in this course. The exams will allow you to demonstrate your understanding of the subject matter covered in class and your comprehension of related material in your textbook. They will also test your ability to apply what you have learned to solve problems. The exams will consist of a combination of true/false, multiple choice and essay questions or diagrams. There will be four unit exams worth 100 points each. A final comprehensive exam also worth 100 points will be given during finals week. An extra credit opportunity will be available on each exam. Makeup exams will be given ONLY for a compelling reason and only if arrangements are made with me BEFORE the regular scheduled time of the exam. ALL makeup exam will be given on December 5<sup>th</sup>, 2008 at a prearranged time from 1-5pm.

**Grading:** Grades will be determined by numerical scores on each test. Unit exams and your final grade may be curved. The standards for awarding grades will be:

A= 90%-100%, B= 80%-89%, C= 70%-79%, D= 60%-70%, and F= 0%-59%

**Attendance:** Your attendance is important since there will be a lot of information presented in this class. The syllabus indicates approximate content, dates and times of the lectures and exams. Information will also be presented in lecture that cannot be obtained from your textbook.

**Preparing for success:**

- Before class look through your notes from the previous class and look over related material in the book.
- Take your own notes during class and make sure you think about the material being covered. If you do not understand something, please ask for help.
- Look over your notes relatively soon after class and supplement them with information for your textbook.
- Resolve confusion! Ask questions during class, see me after class or during office hours or make an appointment.
- If you are struggling in class, I can assure you that getting personal assistance will improve your understanding of the material and ultimately your grade.

**Classroom Etiquette:** During class you need to respect the rights of your classmates and stay focused on the material we are discussing. If you must take a call or answer a text message, please leave the classroom FIRST. Please sit in the back of the lecture hall if you arrive late or leave early.

**Academic Honesty:** You are expected to meet the highest standards of academic honesty and ethics. The exams and any other work submitted for a grade must be entirely the result of your own effort and represent your own understanding of the subject matter. Any cheating or assisting someone else in cheating will result in you receiving an F for the course.

Fall 2008

**BIOL 178: PRINCIPLES OF BIOLOGY**

General Information About the Course and Syllabus

**Students with disabilities:** Every effort will be made to accommodate students who have university-documented disabilities.

**SYLLABUS AND CORRESPONDING READING ASSIGNMENTS**

<b><u>Lecture</u></b>	<b><u>Topic</u></b>	<b><u>Chapter(s) in text</u></b>
9/9	Introduction: A view of life	1
9/11	Nature of Molecules	2
9/14	Chemical Building Blocks of Life	3
9/16	Chemical Building Blocks of Life	3
9/18	<b>No class.</b>	4
9/21	Cellular Structure	4
9/23	Cellular Structure	5
9/25	Biological membranes	<b>1,2,3,4,5</b>
9/28	<b>Exam 1</b>	6
9/30	Energy and metabolism	7
10/2	Respiration	7
10/5	Respiration	7, 8
10/7	Respiration, Photosynthesis	8
10/9	Photosynthesis	8
10/12	Photosynthesis	<b>5,6,7,8</b>
10/14	<b>Exam 2</b>	10
10/16	Cell cycle	10
10/19	Mitosis	11
10/21	Meiosis and Sexual Reproduction	11
10/23	Meiosis and Sexual Reproduction	12
10/26	Patterns of Inheritance	12
10/28	Patterns of Inheritance	12
10/30	Patterns of Inheritance	<b>10,11,12</b>
11/2	<b>Exam 3</b>	14
11/4	DNA: The Genetic Material	15
11/6	Genes and How They Work	15
11/9	Genes and How They Work	16
11/11	Gene regulation	TBA
11/13	<b><i>Veteran's Day</i></b>	17
11/16	Gene Technology	<b>14,15,16,17</b>
11/18	<b>Exam 4</b>	20
11/20	Evolution	20
11/23	Evolution: Genes within Populations	21
12/25	Evolution: Evidence	
12/27	<b><i>Thanksgiving</i></b>	
11/30	<b><i>Thanksgiving</i></b>	22
12/2	Evolution: Origin of Species	55
12/4	Ecology Introduction	55
12/7	Population ecology	56
12/9	Community ecology	57
12/11	Ecosystem ecology	
12/14	<b>Final Comprehensive Exam 12:00-1:50</b>	<b>20,21,22,55,56,57</b>

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**BIOL 178: PRINCIPLES OF BIOLOGY**  
General Information About the Course and Syllabus  
**Student Survey**

Course title: Biol 178/188 Principles of Biology & Lab Fall 2008

Print your name \_\_\_\_\_

Local address: \_\_\_\_\_ Zip code \_\_\_\_\_

Email \_\_\_\_\_

1. Have you declared a major? \_\_\_\_ Yes \_\_\_\_ No What is it? \_\_\_\_\_

2. Who is your adviser? \_\_\_\_\_ Dept \_\_\_\_\_

3. What areas of biology interest you? (Circle all that apply.) It's okay to have more than one area of interest.

BOTANY/PLANT BIOLOGY

ECOLOGY

MOLECULAR BIOLOGY

GENETICS

MICROBIOLOGY

BIOCHEMISTRY

PLANT DEVELOPMENT

ANIMAL DEVELOPMENT

EVOLUTION

ZOOLOGY

ANIMAL PHYSIOLOGY

PLANT PHYSIOLOGY

SOMETHING ELSE? \_\_\_\_\_

4. What other courses are you taking this semester?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What college/university level chemistry have you had? (If none, enter "none.")

\_\_\_\_\_

6. What job/career would you like to see yourself in? \_\_\_\_\_

7. How important is research in biology to you?  
(Use a 1-5 scale where 1= not at all, 5 = extremely important) \_\_\_\_\_

8. How can we help you succeed in this course? \_\_\_\_\_

\_\_\_\_\_

9. Any fears? \_\_\_\_\_