

Time and Location of Class: MWF 10:30-11:30 in LA 205

Textbook: Raven, P.H. and G.B. Johnson. 2008. Biology 8th edition. McGraw-Hill. This text is available at the MSU-Billings bookstore (Jackets & Co) as a hard-cover text or as an e-book (electronic text) option.

Text Website: Go to: <http://www.mhhe.com/raven8> then follow the instructions. The website is exclusively for use with your text. It's a great study tool containing quizzes, outlines and links to other biology sites. Use this resource as an electronic study guide.

Instructor: Dr. Stanley Wiatr, Office – Room 139 Science Building,
Phone: 657-2018
Office Hours: MWF 11:30-12:00; MF 2:00-2:30 or By Appointment
Email: swiatr@msubillings.edu When using email, please identify yourself in the subject heading with *Biol 101-YOUR NAME* and a brief description of the email. Email without an appropriate subject will not be read!

Course Webpage: Course information will be posted in D2L.

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. An extra credit question derived directly from class discussions MAY be present on each exam. No other extra credit will be given.

There will be five unit exams worth 100 points each. A final comprehensive exam also worth 100 points will be given during finals week.

Makeup exams will be given ONLY for a compelling reason. ALL makeup exams will be given on December 11th, 2009 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.
- Form a study group and use that study group to challenge yourself to keep up with the material.
- 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 class room with as little disruption to the class as possible.

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

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

SYLLABUS AND CORRESPONDING READING ASSIGNMENTS

Date	Topic	Chapter(s) in text
Wed 09-Sep	Introduction: A view of life	1
Fri 11-Sep	Nature of Molecules	2
Mon 14-Sep	Chemical Building Blocks of Life	3
Wed 16-Sep	Chemical Building Blocks of Life	4
Fri 18-Sep	Chemical Building Blocks of Life	3
Mon 21-Sep	Exam 1	1,2,3
Wed 23-Sep	Cellular Structure	4
Fri 25-Sep	Cellular Structure	4
Mon 28-Sep	Cellular Structure	4
Wed 30-Sep	Biological membranes	5
Fri 02-Oct	Exam 2	4,5
Mon 05-Oct	Energy and metabolism	6
Wed 07-Oct	Respiration	7
Fri 09-Oct	Photosynthesis	8
Mon 12-Oct	Photosynthesis	8
Wed 14-Oct	Exam 3	5,6,7,8
Fri 16-Oct	Cell cycle	10
Mon 19-Oct	Mitosis	10
Wed 21-Oct	Meiosis and Sexual Reproduction	11
Fri 23-Oct	Meiosis and Sexual Reproduction	11
Mon 26-Oct	Patterns of Inheritance	12
Wed 28-Oct	Patterns of Inheritance	12
Fri 30-Oct	Patterns of Inheritance	12
Mon 02-Nov	Exam 4	10,11,12
Wed 04-Nov	DNA: The Genetic Material	14
Fri 06-Nov	Genes and How They Work	15
Mon 09-Nov	Genes and How They Work	15
Wed 11-Nov	No Class – Veteran’s Day	
Fri 13-Nov	Gene Technology	16
Mon 16-Nov	Gene Technology	17
Wed 18-Nov	Exam 5	14,15,16,17
Fri 20-Nov	Evolution	20
Mon 23-Nov	Evolution: Genes within Populations	20
Wed 25-Nov	No Class – Thanksgiving Holiday	
Fri 27-Nov	No Class – Thanksgiving Holiday	
Mon 30-Nov	Evolution: Evidence	21
Wed 02-Dec	Introduction to Biological Diversity	
Fri 04-Dec	Ecology Introduction	55
Mon 07-Dec	Population & community ecology	55
Wed 09-Dec	Ecosystem ecology	57
Fri 11-Dec	Ecology of Population Growth	--
Mon 14-Dec	Final Comprehensive Exam 10:00-11:50	