

CELLULAR BASIS OF DISEASE
BMS 604
Spring 2016

COURSE POLICY

Course Director:

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Required Textbooks

Lehninger Principles of Biochemistry, 6th Edition, Nelson and Cox, W.H. Freeman and Company, New York, 2013.

Molecular Cell Biology, 7th Edition, Lodish et al., W.H. Freeman and Company, New York, 2012.

Textbooks are available at the Marshall University Bookstore. There are companion websites at <http://bcs.whfreeman.com/lehninger> and <http://bcs.whfreeman.com/lodish7e>.

Classes

BMS 604 is a 1 credit hour course. Classes will be held from 1:00 - 1:50 PM periodically from March to May on Mondays, Wednesdays or Fridays in Room 102 at the Biotechnology Science Center (BSC). While not required, attendance at all classes is strongly recommended. There is a possibility that there will be changes in the course schedule. You will be notified in advance if any changes occur.

Examinations

One examination will be given in this course, each during regularly scheduled class time. Only under **truly exceptional circumstances** will a student be permitted to take an examination at a time other than during the scheduled examination period. Exceptional circumstances include: death or serious illness in the immediate family, childbirth, illness requiring hospitalization and illness serious enough to warrant a written dispensation from a physician. Minor illnesses are **NOT** exceptional circumstances. A written doctor's excuse stating the nature of the illness will be required. If arrangements have not been made beforehand, the student **MUST** contact the course director within 24 hours after the scheduled exam period to discuss rescheduling the exam.

The format of the exam will consist of 50% multiple-choice and 50% of one or more of the following – essay, fill-in-the-blank, matching and short answer.

Homework

There will homework assignments throughout the course for a total of **44 points**.

Team Exercise

At the end of the course, the students will be divided into teams of 4-6 to work together on problems related to the coursework they have had in BMS 601, 602, 603, and 604. The exercise will be worth **66 points**.

Grades

Student performance is based on the scores achieved on five block exams and the scores from the discussion sections. There is no cumulative final. The block exams will be based on 10 points/lecture. There are 36 lectures in the course. The point totals for each exam are as follows.

Exam 1	11 lectures	110 points
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Grades are calculated on a straight percentage scale, based on a total of **220 points (exam = 110 points, homework = 44 points, team exercise = 66 points)**. Final letter grades will be assigned as follows based upon the average percentage obtained on the exam, the homework and the team exercise. Grades will be posted on MUOnline as soon as reasonably possible after each exam.

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	Below 60%

Class Policies

University policies can be viewed at

<http://www.marshall.edu/president/board/policies.html>.

Academic Dishonesty

Academic dishonesty will not be tolerated. Policy AA-12 defines academic dishonesty and describes the sanctions associated with it.

Inclement Weather

Policy GA-9 describes the policy on weather-related and/or emergency closings and delays. As this is an afternoon class, we will not be affected by delays. To find out if the University is closed, please call Audix at 696-6245.

Students with Disabilities Policy

Students with disabilities are required to prepare a notice either from the Help Center, Myers Hall, or Sandra Clements, PH 117, before a special accommodation can be honored. The link describing this policy is <http://www.marshall.edu/disabled>.

University Computing Services Acceptable Use Policy

MUBOG Policy IT-1 explains this policy

(<http://www.marshall.edu/president/board/policies.html>).

Cell Phone Use

Cell phone use, including texting, will not be tolerated in the class, unless authorized by the instructor. If special circumstances exist such that a student needs to be in communication with family members or friends during a class, please inform the instructor before the class begins. Permission will be granted on a case-by-case basis and at the sole discretion of the instructor. If a student persists in using cell phones, including texting, after they have been asked to stop, the student will be removed from the class.

Course Objectives

After completing this course, students should have a thorough understanding of the biochemistry, metabolism and structure of cells, and the molecular mechanisms that determine the function of cells. The student should be able to describe:

- 1) How cells react to stress.
- 2) How cells age.
- 3) The causes and effects of inflammation, neurodegenerative disease, exposure to toxins, cancer, obesity, diabetes, and cardiovascular disease.

Student Learning Outcomes	How Outcome Will be Practiced	How Outcome Will be Assessed
Describe how cells react to stress	In-class discussion, homework	Exam questions, team exercise
Describe how cells age	In-class discussion, homework	Exam questions, team exercise
Describe the causes and effects of diseases prevalent in Appalachia	In-class discussion, homework	Exam questions, team exercise

BMS 604 2016 LECTURE SCHEDULE
MWF 1:00 – 1:50 PM

		March 14-18	MAIN CAMPUS SPRING BREAK	
1	Monday	March 21	Cellular response to stress	
2	Wednesday	March 23	Aging	
3			Detection methods for cellular stress	
		March 28 - April 1	MED SCHOOL SPRING BREAK	
4	Monday	March 28	Inflammatory processes	
5	Wednesday	April 6	Neurodegenerative Disease	
6	Friday	April 8	Toxicology	
7	Monday	April 11	Angiogenesis and Cancer	
8			Cancer Metastasis	
9	Monday	April 18	Obesity	
10	Wednesday	April 20	Diabetes	
11			Cardiovascular Disease	
	Friday	April 29	Team Exercise	
			Team Exercise	
	Thursday	May 5	EXAM 1 (Lectures 1-11)	