

## **BSC104 Introduction to Biology**

Fall 2017

MWF 2-2:50 Room S376

Dr. Gary Schultz

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Office Hours: MW 10:30-12 AM; T 10-12 AM

### **Course Description:**

**BSC 104 Introduction to Biology:** Fundamentals of biology with emphasis on the unity of life, energetics, genetics and the world of living things. Intended for non-science majors. It is a 4-credit course (**3hr-lecture, 2hr-lab**) and is intended for non-science majors.

The lab will meet in S212.

### **Required Textbooks:**

Lecture: Campbell Essential Biology 6<sup>th</sup> edition, Simon, Dickey, Hogan, and Reece, published by Pearson.

Laboratory Guide, Susan Weinstein (available at Marshall Bookstore)

### **Course Student Learning Objectives:**

The overall objective of this course is to introduce the principles and processes of biology through an emphasis on the natural world and on current topics in the field of biology. Laboratories will present simple experiments to further strengthen those concepts learned in lecture.

<b>Course Student Learning Outcomes</b>	<b>How students will practice each outcome in this Course</b>	<b>How student achievement of each outcome will be assessed in this Course</b>
Students will understand the basic knowledge associated with modern biology and its sub-disciplines (cell biology, genetics, evolution, classification of living organisms).	Attending lectures, reading class material, joining in with class discussion.	Exams will evaluate understanding of basic biological knowledge. Laboratories will require notebooks that will be graded.
Students will be able to apply the basic knowledge to current health, political, and social issues.	Attending lectures, reading class material, joining in with class discussion.	Exams will have sections to evaluate knowledge as it relates to current issues.
Students will acquire critical-thinking skills in light of the rapidly growing body of knowledge in biological science theories and use that to evaluate information regarding concepts in biology from modern sources such as the internet and social media.	Attending lectures, reading class material, joining in with class discussion.	Exams will have critical thinking questions. Laboratory notebooks will be evaluated with regard to ability to think critically and understand what labs are demonstrating.

## University Policies

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to <http://www.marshall.edu/academic-affairs/policies/>.

Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

## Course Requirements

### Lecture Exams:

There will be four exams. Lecture exams will consist primarily of multiple choice questions, but I reserve the right to use other types of questions if necessary. Each exam will be worth 100 points.

If you miss an exam you **must** provide an acceptable excuse; otherwise, you will receive a **ZERO**. Make-up exams with an acceptable excuse will be made up during “Dead Week”. **Make up exams will be short answer and/or essay. It is in your very best interest to NOT miss an exam.**

### Laboratory Reports:

This portion (a total of 120 points) will be explained and administrated by the laboratory TAs.

### Course Grading:

Students will be evaluated as follows:

Four exams @ 100 points each	=	400 points
Labs	=	120 points
Course Total	=	520 points

Final letter grade: 465-520 points = A; 413-464 points = B; 361-412 points = C; 309-360 points = D; 0-308 points = F.

## Detailed policies

**Grading and Extra Credit.** Any extra credit will be given to the entire class and will be **proposed and presented by me**. Please do not ask for special consideration, particularly at the end of the semester. If you are concerned about your grade, come see me as early as possible when there may still be time to make a change.

**Attendance.** Attendance at all scheduled lectures and exams is encouraged (however, see below for behavior in class). Lectures are only given once. If you miss class, please obtain notes/information from a classmate. Anything we cover in class, including lectures, discussions, movies, or any exercise will be included on exams.

**Conduct in class:** Please behave respectfully during class. Behaviors such as excessive chatting with other students, texting, etc., are disruptive to the instructor and to other students. Students habitually engaged in these activities may be asked to leave the class that day. If you need to text, e-mail, or otherwise stare at your screen during class, please **DO NOT COME** to class. Please turn off (silence) your cell phones,

paggers, etc. No electronic devices will be needed, and none will be permitted, during exams. The use or access of an electronic device during an exam will be considered evidence of academic dishonesty.

**Office Hours** – Feel free to drop by at any time during **posted office hours**, however people who call or email ahead for an appointment will be given priority. ***An appointment is required outside of posted office hours.***

**Blackboard** - Powerpoint lectures will be made available on Blackboard. These are provided by the instructor as a **courtesy** to the students. The instructor reserves the right to change, delete, update or otherwise modify these files at any time. These outlines are not intended to substitute for taking your own notes in class. They are not guaranteed to be comprehensive. There **WILL** be information given during lectures that is not in the PowerPoints. These outlines are not a substitute for regular class attendance. Generally, students who rely solely on the PowerPoint notes do not do as well on the tests as students who take their own notes or use a combination of their own notes and the posted PowerPoints.

***ANNOUNCEMENTS will be sent to Marshall Emails. You are expected to check regularly so as not to miss any important course-related information.***

### **Academic Dishonesty**

I will report any incident to the Chairman of the Department of Biological Sciences. You may be placed on academic probation, suspended or dismissed from the University following being found guilty of Academic Dishonesty. Please see the following web site for the official Marshall University statement;

<http://muwww-new.marshall.edu/academic-affairs/forms-policies/>

### **Social Justice**

NO one will be discriminated against on the bases of race, sex, ethnicity, age, sexual orientation, social class, abilities or differing viewpoints. Each student will be viewed as a valuable and essential part of this class.

### **Inclement weather**

If the University is closed for weather related reasons, this class will be cancelled and we will adjust our schedule.

**Approximate Schedule and Material to be Covered** – The following is an ***estimated*** class schedule of topics to be covered and accompanying textbook chapters. It is not my intention to cover every chapter in its entirety. It is recommended that students read all chapters listed as well as any other posted or referenced materials. Lectures will highlight specific sections of each chapter. Additional material not contained in the textbook may be given during lectures. Test questions will come from these materials as well – including any movies or videos shown during class. **The best strategy is to read the chapters indicated, attend lectures, and take notes.**

## Tentative Lecture Schedule

MTG #	Day	DATE	Topic
1	8/21/2017	ECLIPSE	NO CLASS
2	8/23/2017	W	Ch 1-7
3	8/25/2017	F	Ch 1-7
4	8/28/2017	M	Ch 1-7
5	8/30/2017	W	Ch 1-7
6	9/1/2017	F	Ch 1-7
	<b>9/4/2017</b>	<b>M</b>	<b>No Class</b>
7	9/6/2017	W	Ch 1-7
8	9/8/2017	F	Ch 1-7
9	9/11/2017	M	Ch 1-7
10	9/13/2017	W	Review
<b>11</b>	<b>9/15/2017</b>	<b>F</b>	<b>Exam 1</b>
12	9/18/2017	M	Ch 8-12
13	9/20/2017	W	Ch 8-12
14	9/22/2017	F	Ch 8-12
15	9/25/2017	M	Ch 8-12
16	9/27/2017	W	Ch 8-12
17	9/29/2017	F	Ch 8-12
18	10/2/2017	M	Ch 8-12
19	10/4/2017	W	Ch 8-12
20	10/6/2017	F	Ch 8-12
21	10/9/2017	M	Review
<b>22</b>	<b>10/11/2017</b>	<b>W</b>	<b>Exam 2</b>
23	10/13/2017	F	Ch 13-17
24	10/16/2017	M	Ch 13-17
25	10/18/2017	W	Ch 13-17
26	10/20/2017	F	Ch 13-17
27	10/23/2017	<b>M</b>	Ch 13-17
28	10/25/2017	<b>W</b>	Ch 13-17
<b>29</b>	<b>10/27/2017</b>	<b>F</b>	<b>Last Day to Drop</b>
30	10/30/2017	M	Ch 13-17
31	11/1/2017	W	Ch 13-17
32	11/3/2017	F	Ch 13-17
33	11/6/2017	M	Review
<b>34</b>	<b>11/8/2017</b>	<b>W</b>	<b>Exam 3</b>
35	11/10/2017	F	Ch 18-20
36	11/13/2017	M	Ch 18-20
37	11/15/2017	W	Ch 18-20
38	11/17/2017	F	Ch 18-20
	11/20/2017	M	No Class
	11/22/2017	W	No Class
	11/24/2017	F	No Class
39	11/27/2017	M	Ch 18-20
40	11/29/2017	W	Ch 18-20
41	12/1/2017	F	Ch 18-20
42	12/4/2017	M – Dead Week	Ch 18-20
43	12/6/2017	W – Dead Week	Ch 18-20
44	12/8/2017	F – Dead Week	Review
	<b>12/11/2017</b>	<b>M</b>	<b>EXAM 4 – 12:45</b>