

BIOL 1010B Course Objectives

Essential Questions:

What has made the natural sciences so effective at unraveling some of the mysteries of life and our universe?
How does the Theory of Evolution explain the History of Life and the vast Biological Diversity of living organisms?

Learning Outcomes = Students will be expected to:

- I. Distinguish the unique features of the natural sciences and the characteristics of living organisms.
- II. Describe the evolutionary processes that have been influential throughout the history of life.
- III. Compare and contrast the basic characteristics and classification of living organisms.

Proof of mastery for each will be demonstrated by the knowledge & skill shown in:

- I. Online on *Connect* Assignments – Completion of reading, *LearnSmart*, Practice, & Pretests, & Papers
- II. Midterms & Final Exam - Based on Text, Lectures, Discussions, & Videos

Assessment:

Online Assignments	
LearnSmart	20%
Connect Practice & Pretests	20%
Attendance*	10%
Examinations	50%
3 Midterm Exams (10% Each) & Comprehensive Final Exam (20%)	

Examinations: Examinations will be multiple choice tests that assess conceptual understanding of course content. Do NOT try to memorize the information because the test questions will probe your understanding of the concepts. I am not interested in whether you are good at rote learning. We will discuss the type of questions you can expect before the first exam and will go over part of the first exam during the following class session. Each of these 3 tests will count for 10% of the grade and will be 100 questions. If you have an emergency and can't make the exam, be sure to contact me within 24 hours by office phone or by email. Make-up exams will only be given for valid reasons with documented excuses and these will be essay tests that are much more difficult. The final examination will be comprehensive, consist of 100 multiple choice questions, and cover all accumulated course content for 20% of your grade. Your Test Scores will be available on *Blazeview* about 24 hours later.

***Attendance:** You are expected to attend all class meetings. A class list will be passed around every day for you to initial. Being tardy or leaving early 3 times is counted as an unexcused absence. If you arrive late for class, go up the stairs and enter the back of the room, sit in the back section on the right and be sure to contact the TA so that you are marked on his list. The TA will be in charge of Attendance and it is up to him to decide whether absences will be excused or not. If you do miss class for any reason, you are responsible for obtaining notes from another student. Make contact with a classmate and exchange phone numbers early in the semester. I will not give you the notes or tell you what you missed because there are too many students in the class. Anyone who misses more than 20% of the class sessions will receive a failing grade for the course. Here is how your grade will be calculated:

No Absences	125%
1 Absence & All Made-Up	100%
2 Absences	75%
3 Absences	50%
4 Absences	25%
More than 4	0%
More than 6	Course Failure

Email: We are going to use the **Blazeview email** for class. There is a certain standard of etiquette in higher education that is very different from the way you interact with your friends while texting. My VSU email is for emergencies.

My title is **Dr. Jones** and start any email with that included in a greeting.

The first thing you should do is tell me **which of my classes you are in**.

The next sentence should contain the **reason for your message**.

After you explain yourself using **good grammar & spelling** – This is not a “text message”

Proofread – I do not expect garble from people who are working toward a college diploma

Close the message properly showing you know the **proper decorum to use with your professor**

Finally, if you are not polite, **do not expect a response from me** – I will be busy filing it in my “Rude Email” file, and I may enter it in the faculty contest for the “Rudest Email of the Year”

BIOL 1010B Class Protocol

Class Sessions: Most students come to class to learn and I will not tolerate behavior that disrupts the learning environment. Come to class prepared to concentrate & pay attention. Since some people may not know what is expected in a college classroom, the following rules should make this clear. If I have to stop class and speak to you about a disruption, I will ask to see you after class, and if it happens more than once you will be told to leave.

Class Rules:

1. Attend to your personal needs before class and refrain from getting up during class unless it is urgent.
2. Class will start promptly at 5:00, please have your notebooks open and be ready to pay attention and begin.
3. Once class begins, refrain from side conversations. If you are asking about a word in lecture, make it short & quiet.
4. If a classmate is being rude or distracting you, let them know or say "Shhhhhhhh" loud enough for me to hear.
5. The VSU rules are no eating or drinking in the lecture hall. Water bottles are fine.
6. You are welcome to have your laptops, pads, & phones in class to record lectures, look up terms, and photograph slides. However, this is not an invitation to skype, take calls, or read & send texts. If anyone is bothering you with such behavior, report them to me after class or by email. There will be grade penalties for this type of disruption.
7. Class will end at 6:15, unless you see "THE END" on a slide before, so do not pack up & rustle your packs before this.

Required Technology Platforms:

LMS=Blazeview: Learning Management System - Your VSU Account: This will be used for all class communication, writing assignments, and access to various resources. (<http://www.valdosta.edu/academics/elearning/blazeview-d2l.php>)

CMS=McGraw Hill Connect: Course Management System - This is a complete electronic version of the book and a versatile software product for the graded, adaptive pre-reading *LearnSmart*, practice assignments and pre-tests.

Text: Marielle Hoefnagels -Biology: Concepts & Investigations 3rd Ed.(2015) McGraw Hill in the *Connect* Platform (eBook & eLearning)

The online course material will not be available until January 17th so that everyone enrolls at the same time. The Bookstore charges \$106.25 for the same access number that can be purchased directly from publisher for \$85.00 using a credit card on the registration site: <http://connect.mheducation.com/class/l-jones-spring-2017-mw-200-315-2>

Everyone may sign up for a free 2-week trial until your financial aid money is available or you are sure you will stay in the class.

If you want a hard copy, you can purchase a loose-leaf version for \$25.00 with a credit card when you register for *Connect*.

McGraw Hill Customer Support: Call (800) 331-5094 if you have any problems with the program. If you have problems with *Connect*, YOU must call McGraw Hill. Get the Case Number. If they do not help you, then email me in Blazeview and be sure to send me the case number so I can try to do something about it.

We will use the *Connect* software program from McGraw Hill to give you designed practice working on the course content in *LearnSmart* which is an adaptive program that adjusts to every student's individual skills. Your success in this course depends on your completion of these online assignments. These comprise 40% of your grade, and they are very important because they help you learn the information and prepare for the tests. Effort on these assignments is directly correlated to the grades students receive. You waste the time you spend doing these activities, if you do not concentrate on learning as you do them.

The *LearnSmart* (LS) prompts are lower order questions that drill on vocabulary and basic concepts. Think about the questions when you read the prompts and what the answer is. Indicate how confident you really are. If you get the question wrong, ask yourself why you did not know it. That type of thinking is the best thing you can do to improve your learning. If you look back and it is right in the book, consider the fact that you might need to read more carefully. *LearnSmart* is an adaptive program. The number of points you get and the number of times you see a topic depends on getting the correct answer and how certain you are that you know the answer. Be sure to use the Confidence prompts carefully. You get the most points if you say you are "sure" and get the answer correct. You will also finish faster if you do that. However, if you say you are "sure" and get it wrong, you lose big points. If you get it wrong with one of the other prompts, the penalty is not as bad. You will get other questions on that topic or the same question until you master it. You can go back and drill on *LearnSmart* as often as you want after the deadlines.

You can start as early as you want for all of the chapters in each unit to be sure you get the chapters completed on time. Any online assignments on *Connect* must be done by the deadlines. Late submissions will not be accepted. No Exceptions! As you do *LS*, jot down words on questions you miss so that you can be sure to look for those explanations in lecture. If something is still unclear, be sure to ask. Do not expect questions like these on the test because those will be conceptual and require higher order thinking. So that you can prepare for the tests and exam, there will be a *Connect Practice* activity toward the end of each unit. A *Connect Pretest* is due at midnight the night before the exam. Practices & Pretests will be interactive and higher order questions, so your grades on these should give you an idea if you are prepared. You can do these unit assignments 3 times and your best score will count. Find your Metacognitive score in the report section and compare it to the grade you want on a test because there is usually a high correlation between these and how people score on the tests.

BIOL 1010 - Tentative Course Schedule and Plan for Instruction

Dates	Topics	Assignments
Nature of Science Unit		
1. Natural World		
Jan	9 - Levels of Organization 11 - Course Information & Syllabus Quiz	Alphabetical Hierarchy Homework Student Info Due 1/17 on Blazeview [BV]
2. Systematic Study		
	16 - MLK HOLIDAY 18 - Patterns & Classification	Register for McGraw Hill before class for 10 points
3. Methods		
	23 - Reasoning 25 - Processes	BV PowerPoint Classification Assignment LS Ch 1
4. Domains		
Feb	30 - History of Science & Biology 1 - Characteristics of Life	Fish Lab Report BV Due 1/31 Practice (Due 2/3)
5. Assessment		
	6 - Biodiversity 8 - Nature of Science Unit Test	Pretest (3 Attempts) Due 2/7 BV Personal Reflection Due 2/11
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Evolution Unit		
6. The Beginnings...		
	13 - The Evolution Creationism Controversy 15 - Explanations of Origins	BV - Critical Review of Mythos & Logos Paper Due 2/12 LS Ch 15
7. Change		
	20 - Artificial Selection (The Dog) 22 - Natural Selection	LS Ch 12
8. Evidence		
Mar	27 - Types 1 - Speciation	LS Ch 13 LS Ch 14
9. Conclusion		
	6 - Biodiversity 8 - Evolution Test	Practice (Due 3/5) Pretest (Due 3/7)
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Mar 2 nd = Midterm		
March 13-17 SPRING BREAK		
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Biodiversity Unit		
10. Microbes		
	20 - Prokaryotes 22 - Protists	LS Ch 17 LS Ch 18
11. "Flora" (in a Broad Sense)		
	26 - Fungi* 28 - Plants	LS Ch 20 (*Out of Order) LS Ch 19
12. Lower Animals		
Apr	3 - Invertebrates 5 - Chordates	LS Ch 21 Part I Sections 1-9 LS Ch 21 Part II Sections 10-15
13. Mammals		
	10 - Mammals & Primates 12 - Hominins	LS Ch 15 Part II Sections 4 & 5 Ch 21 Part III Section 16 BV - "Race" Paper
14. Humans		
	17 - Early Migrations 19 - Inheritance of Skin Color	
15. Conclusion		
	24 - Human Evolution 26 - Biodiversity Exam	Practice (Due 4/23) Pretest (Due 4/25)
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16. Human Impact		
May	1 - Changing to Sustain the Natural World	LS Ch 40

COMPREHENSIVE FINAL EXAM - Tuesday, May 2nd from (2:45-4:45)

Top Ten” Strategies for Success in Biology 1010

(You can even count up by reading from the bottom if you are a David Letterman fan)

If you want to earn an “A” and or do well in this course, you need to think about your own approach to studying. You will not even pass unless you work hard so (before you waste your time and someone’s tuition money) consider the following:

#1. Pre-Read the Book & Do *LearnSmart* before the Lectures – The *Connect* chapter assignments are due on specific days, before class when the lectures will begin covering the specific topic. Read the book so that you will come in knowing how to spell words and have some familiarity with key ideas.

#2. Attend Class and Take Detailed Notes – The information in class sessions will not identical to your book. The scientific topics will be explained differently and additional information will be covered. Think as we go along, and if you do not understand - ask questions. Clicker prompts are designed to get you thinking, so you can evaluate your own understanding of the subject. **Keep an Orderly Notebook** – If you use a spiral for class notes, have another folder where you can assemble all of your papers and outside information in preparation for studying for the tests.

#3. Summarize Your Notes Every Day after Class - Write a short **Summary** or synopsis of the information covered to be sure that you understand it all. If not, read up on the subject in your text or on the Web or come in for help on anything you do not understand. If you miss something in lecture, leave a space in your notes where you can look it up on the web or come to office hours for an explanation. By going over your notes to be sure they make sense and writing a paragraph in your own words, you will be way ahead when it is time for a test.

#4. Get to Know Someone in the Class – Make contact with a student that sits next to you in class. This is so that you can quickly look over at their notes if you miss something during lecture. Get notes from them if you have to miss class, and check on the specifics of assignments by phone or email. You can also study together for the exams.

#5. Structure Regular Study Sessions – Set up a pattern of regular times that you attend to the course material and be sure to keep up with the assignments (which are not accepted if they are late). **Re-Read the Text after Class Sessions** to be sure you have mastered the material. Find Websites on the topic for more information. If you know you need to work hard for good grades, take detailed study notes on the book modules to reinforce the concepts.

#6. Make a Vocabulary List of Important Terminology – Construct a list of the terms you do not know and define them in your own words. As you go through *LearnSmart*, take note of concepts that are challenging. Drill yourself until you are sure you know these words. If any are particularly troublesome, try writing a sentence that uses the term. **You must understand the “language of biology”** and there is plenty of it!

#7. Use the Assignments to Be Certain You Know the Content –*LearnSmart* will check your familiarity with the vocabulary. The *Blazeview* papers prompt you to think outside of the box and will reinforce the content. The *Connect* practice activities and pre-tests for each unit are interactive biology exercises that serve as a good way for you to determine whether or not you really know the information.

#8. Get Additional Help –My Office Hours are a time that I will be in my office to meet with students. I will be happy to make appointments at other times. If you do not ask, I can’t help you! There are also designated Biology tutors in the Student Success Center who can also help.

#9. Plan Ahead for Tests – Write the dates in your calendar, then count back one week to remind yourself to start preparing. Spend at least a week studying gradually. Stop and rest your brain right before the test. Give the information time to sink in. **Do Not Pull “All-Nighters”** – These tests require you to think, so you will not do well if you are too tired to reason and figure out the answers.

#10. Decide that You Plan to Succeed and Work Consistently for a Good Grade – It is your choice! **Start Working Hard at the Beginning of the Semester** – Do not fool around and suddenly decide to work after you get behind and need to dig yourself out of a big hole.