

BIOL 1010 Practice Exam II Sub A

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**BIOL 1010 - Principles of Biology II - a Core IMPACTS course and a Technical Major
Science - STEM area**

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content, and support students' broad academic and career goals.

This course directs students toward a broad Orienting Question:

- How do I ask scientific questions or use data, mathematics, or technology to understand the universe?

Completion of this course should enable students to meet the following Learning Outcome:

- Students will use the scientific method and laboratory procedures or mathematical and computational methods to analyze data, solve problems, and explain natural phenomena.

Course content, activities and exercises in this course should help students develop the following Career-Ready Competencies:

- Inquiry and Analysis
- Problem-Solving
- Teamwork

Textbook

- Any Introductory Biology textbook will work. However, the syllabus and organization of lectures is based on OpenStax Biology 2e (<https://openstax.org/details/books/biology-2e>), which is free.

Attendance Attendance in lecture is expected by all students.

COVID If you are sick don't come to class.

Questions If you have any questions, don't hesitate to ask.

Success

- I want you to succeed and I will work with you and support you to help you learn the material. Come to my office, ask questions in class, or set-up additional appointments with me.
- To learn the material, you must engage with the course content. Cramming a few days before the exam (or even a week before the exam) is not a good habit. You should go over the material (new and old) each week. Being a full-time student is a full-time job.
- You must be able to evaluate your own actions/study habits and be willing to change how you study if you are not satisfied with your grade(s). If you don't know what to do, see me or check out the Academic Support Center (ASC).
- There are lots of resources on campus; ASC TSU

S **TENTATIVE LECTURE SCHEDULE**

(Note that this is a tentative schedule so topics and dates covered may change) It is possible that I may have to cancel a class. If this is the case, I will post a recorded lecture for you to watch or some other assignment for you to complete. The chapters listed below are to guide you. There may be content in chapters that I do not go over that will not be on exams, and content in lectures that is not in the book that you will be tested over.

Note about exam 1: While there will be 'new to you' content covered for Exam 1, the majority of the topics are a review of BIOL1107. The purpose of this is to put them in context of how organisms function.

January

- 8 Intro to BIOL1108,
- 10 Biological Organization: Molecules through Organism (Chapters 2 and 3)
- 12 Biological Organization: Molecules through Organism (Chapters 4 and 5)
- 15 Martin Luther King Day: No Class
- 17 Biological Organization: Molecules through Organism (Chapters 6 and 7)
- 19 Cell Communication (Chapter 9)
- 22 Intro to Tree of Life, Phylogenies, and Evolution (Chapters 18 and 20)
- 24 Catch-up & Review
- 26 **E al**
- 29 Introduction to Animal Diversity (Chapter 27); The Animal Body (Chapter 33)
- 31 Animal Nutrition & the Digestive System (Chapter 34)

February

- 2 Animal Nutrition & Digestive System (cont'd)
- 5 The Endocrine System (Chapter 37)
- 7 Endocrine System (con'td)
- 9 Musculoskeletal System (Chapter 38)
- 12 Musculoskeletal System (cont'd)
- 14 Catch-up and Review
- 16 **E al**
- 19 Respiratory System (39.1, 39.2, 39.3, 39.4)
- 21 Respiratory System (cont'd)
- 23 Circulatory System (40.1, 40.2, 40.3, 40.4)
- 26 Circulatory System (cont'd)
- 28 Osmotic Regulation & Excretion (Chapter 41)

March

- 4 Osmotic Regulation & Excretion (cont'd)
- 6 Animal Reproduction & Development (Chapter 43)
- 8 Animal Reproduction & Development (cont'd)
- 11-15 Spring Break
- 18 Catch-up and Review
- 20 **E al**
- 22 Plant Diversity and Seedless Plants (Chapter 25.1, 25.3, 25.4)
- 25 Seedless Plants (cont'd)
- 27 Chapter 26: Seed Plants (Chapter 26)
- 29 Chapter 32: Plant Reproduction (Chapter 32.1, 32.2, 32.3)

April

- 1 Alternation of Generations Recap and Cell Structure Review and Plant Body (Chapter 30.1)
- 3 Plant Body (cont'd)
- 5 Stems, Roots, Leaves (30.2, 30.3, 30.4)
- 8 Stems, Roots, Leaves (cont'd)
- 10 Catch-up and Review
- 12 **E al**
- 15 Transport of Water & Solutes in Plants (Chapter 30.5)

- **B a V** . **BV Q** . **Q** . **a** These are optional assignments BUT you can use these points (out of 100) to replace your lowest 'regular' exam grade at the end of the semester. These points cannot replace your final exam grade. To help you prepare for lecture exams, multiple choice quizzes with 5-10 questions will be given throughout the semester on BV. You will complete these quizzes 2 times, and both scores will count towards your total points earned. Why take the quiz two times?
 - Purpose of the 1st round: to figure out the answers
 - Purpose of the 2nd round: to practice recall of the information

BV Quiz Grading Explained: For the first round, each question is worth 1 point, and for the second round each question is worth 0.25 points. Based on these point values, each quiz (combined 1st and 2nd round) will be worth ~10-20 points.

BV Quiz Logistics: The **1st round** will be open book and will not be timed (you have all the time you need to figure out the answers) and will open on Sunday at 3:00pm and close (be unavailable) on Thursday at 9pm (~4 days to complete). Each question will be worth 1 point. The **2nd round** will be timed (1 minute/question), and while it will be considered open book, you should review content prior to taking the quiz. The questions on the 2nd round are the same questions as the first round. The 2nd round will open on Thursday at 9pm and will close Sunday at 3pm (become unavailable). Each question will be worth 0.25 points.

Each student will be given 3 opportunities to re-open the 1st round of a quiz. To do this, you must send me an email to tjgrove@valdosta.edu within a week of the due date 8.1 ()1Td[TJ0]1.9 (q)-117(n)-5.2 datief-2.2 qTJ0g.005(e)-

will be given throughout the semester, and the highest 10 (100 points) will count towards your grade. Because I only count your highest 10 grades, a missed quiz cannot be made up. Please do not think that there are plenty of chances to miss quizzes for unexcused reasons (didn't feel like attending class, overslept, etc.) because if you miss 5 quizzes because of not so good choices, and then you do have a legitimate reason (excused illness, university function, etc.), you will still not be able to make up the quiz.

Lecture quizzes may have various formats including, but not limited to, closed book, open book, and group quizzes. Quizzes may also simply be based on attendance. Quizzes may have confidence components included with each question. The confidence component is designed for you to think about your mastery of the subject and will ask you if you are "Confident" or "Not Confident" with your answer. Students who are accurate and confident in their knowledge and understanding of the material will earn the most points, and students who are wrong, but think they are right will earn the least amount of points. Essentially, the metacognitive component of the quiz should increase the confidence in students who do know the material, but may not be confident in their understanding, and to help some students who are overly confident in their understanding of the material recognize that they are not as prepared as they think they are. The point values for your answers will be: 2 pts: Right answer and confident, 1 pts: Right answer but