**BIO 102 ACCESS Spring 2020**

**Amended Syllabus**

**CONTACT INFORMATION**

Instructor: **Dr. Sydha Salihu**

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**GEF FULFILLMENT:** The General Education Foundations (GEF) help build the foundational skills and knowledge necessary to reason clearly, communicate effectively, think critically, and contribute to society. The GEF works to fulfill the University’s goals of 1) creating well-rounded students with a broad base of skills and knowledge, 2) linking together courses that students take at WVU, and 3) instilling in students a permanent connection to learning and educations, giving them the skills to learn what they need outside a formal educational environment. This course fulfills GEF group 2b Science & Technology (with lab).

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| --- | --- | --- | --- |
| **GEF Area** | **LEAP Essential Learning Outcome** | **Course Learning Outcome or Objective which Aligns with LEAP Outcome** | **Assessment that will be used to Measure the Aligned Outcome** |
| GEF 2b: Science and Technology (with lab) | LEAP 2: Intellectual and Practical Skills – Critical Thinking | * Analyze current news items and apply these concepts in their own environment, life, and health.
* Predict how disruptions to human physiological systems lead to health issues.
 | Homework assignment – COVID19 assignment |

**COURSE LEARNING OUTCOMES**

### This is a general biology course that covers the basic morphology and physiology of living things. Although specifics are given for organisms in every kingdom, plant and animal morphology (structure) and physiology (function) are emphasized. In addition, photosynthesis and cellular respiration, critical metabolic processes, are examined.

Upon successful completion of the course, students will be able to:

* Describe the diversity of living organisms and generalize how the process of evolution explains both the diversity and unity of life on Earth.
* Identify the life processes of plants including plant cell structure and function, growth, and life cycles.
* Organize information about different cell types and organ structure to describe the specialized functions and regulations of the major organs and organ systems in the animal kingdom.
* Differentiate energy transfers that occur during both photosynthesis and cellular respiration.
* Appraise the importance of homeostatic mechanisms and identify specific examples of the relationship between structure and function within living organisms.
* Analyze current news items and apply these concepts in their own environment, life, and health.
* Predict how disruptions to human physiological systems lead to health issues.
* Explain the importance of plant productivity in today’s economy.
* Apply hypothesis-driven inquiry to evaluate case studies.

**REQUIRED MATERIAL**

Textbook**:** *What is Life? A Guide to Biology with Physiology4th edition*

 Written by Jay Phelan; Published by W.H. Freeman

Websites: eCampus: <https://ecampus.wvu.edu> (course materials)

Best practices for online learning: https://onlinestudents.wvu.edu
WVU Portal: <http://students.wvu.edu> (MIX email notices)

You will need computer and internet access for this course. Grades, assignments, study guides and lecture slides will be posted on eCampus or on other accessible online locations. Assignments may also be announced via email to your mix account. You are expected to check your grades in eCampus frequently and notify me early of any problems or discrepancies. **Problems or discrepancies with grades must be brought to my attention immediately (within one week if possible)**

**ASSESSMENT**

Your grade will be based on in-class activities, participation using clickers (before spring break), homework, and exams. I want to see that you understand the material and can apply it to new situations, thus most of your grade will be based on exams that assess these skills. Although there are some facts and terms you will need to know, memorization is generally not enough to succeed in this course. Knowing facts and definitions is less important than being able to apply them to realistic examples, predict reasonable outcomes, and identify specific examples of concepts we have discussed in class. You will need to move beyond the basics of memorizing or recognizing facts and instead into the hard work of understanding the underlying concepts, and being able to explain the why’s and how’s of biology.

**Attendance Policy: “**Students who are absent from class for any reason are expected to take full responsibility for their own academic work and progress and are required to complete missed work or equivalent work, as deemed appropriate by the instructor. Excused absences are absences in which the instructor agrees to provide an opportunity to make up missed class work or activities (e.g. assignments, exams). Events that justify an excused absence include religious observances, mandatory military obligation, mandatory court appearances, and participation in university activities at the request of university authorities.” WVU Catalog 2019-2020.

**Attendance and Participation:**  **Spring 2020 Coronavirus Amendment: Attendance and Participation % as of Module 4 will be used as your final Attendance and Participation %. The 20% adjustment will be included.**

Attendance and participation points will be **adjusted up 20% at the end of the semester**. That is, if you earn 100% of the participation points awarded, your grade for this aspect of the course would be 120%. If you earn 50%, then your final score would be 70%.

**Homework: Spring 2020 Coronavirus Amendment: Homework will contribute 20% of your final grade in the class.**

You may be assigned various homework exercises over the semester including problem sets, computer quizzes, writing assignments, reading assignments, guiding questions, etc. **No late homework will be accepted. This includes homework that is late due to excused absences.**

**Late Work Policy**: Work completed and turned in past the due date will not be given credit.

**Exams: Spring 2020 Coronavirus Amendment: Exams will contribute 70% of your final grade.**

**During the online delivery of course information, Exams will be given through eCampus. You will have 60 minutes to take exams 3 and 4 and 2 hours to take your Final Exam.**

**Grades: Spring 2020 Coronavirus Amendment:**

Percent score for attendance & participation = ((total participation points you earned/total participation points given) \*100) + 20%

Percent score for homework = (total homework points you earned/total homework points given) \*100

Percent score for exams = (total exam points you earned/total exam points given) \*100

Grading Scale (Unchanged): Calculating your grade:

89.5-100% = A Percent score on exams: \_\_\_% x 0.70 = \_\_\_

79.5-89.4% = B Percent score for participation: \_\_\_% x 0.10 = \_\_\_

69.5-79.4% = C Percent score for homework: \_\_\_% x 0.20 = \_\_\_

59.5-69.4% = D Add together to get final score for class = \_\_\_

0-59.4% = F

**INCOMPLETE GRADES:** Students who want to be considered for an Incomplete **must apply to their instructor prior to the end of the term**. If the instructor agrees, the instructor and the student must negotiate the conditions under which the grade of I will be changed to a letter grade and sign a contract. The date to submit the incomplete work should not be set beyond the last day of class of the following semester. If the student does not complete the terms of contract then the instructor should submit a grade of F. All incomplete contracts must be filed with the department and with the college.

<http://catalog.wvu.edu/undergraduate/enrollmentandregistration/#Incompletes>

**Warning: if you drop either lab or lecture at any point during the semester, you will automatically be dropped from the other class as well.**

**GETTING HELP**: **Spring 2020 Coronavirus Amendment: email me (****Sydha.salihu@mail.wvu.edu****) with your questions.**

**ACADEMIC INTEGRITY: Spring 2020 Coronavirus Amendment: You are expected to have academic integrity in all of your work. When taking online exams, your notes, books, PowerPoints are not be looked at and no notes should be left open near the computer.**

Cheating will not be tolerated. Students who are caught cheating in any form on any assignment, exam, or participation exercise (no matter how small!) will definitely receive a zero for that assignment and may receive an unforgivable F for the course. I will give written notice of all cases of academic dishonesty to the Student Judicial Affairs office. Unless I say clearly that you may work with a friend or a group, please assume that all assignments are “solo” efforts that include only your own work and thoughts.

The integrity of the classes offered by any academic institution solidifies the foundation of its mission and cannot be sacrificed to expediency, ignorance, or blatant fraud. Therefore, I will enforce rigorous standards of academic integrity in all aspects and assignments of this course. For the detailed policy of West Virginia University regarding the definitions of acts considered to fall under academic dishonesty and possible ensuing sanctions, please see the West Virginia University Academic Catalog at

**http://catalog.wvu.edu/undergraduate/coursecreditstermsclassification/#academicintegritytext.** Should you have any questions about possibly improper research citations or references, or any other activity that may be interpreted as an attempt at academic dishonesty, please see me before the assignment is due to discuss the matter.

**INCLUSIVITY STATEMENT:**

The West Virginia University community is committed to creating and fostering a positive learning and working environment based on open communication, mutual respect, and inclusion.

If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please advise me and make appropriate arrangements with the Office of Accessibility Services (293-6700). For more information on West Virginia University's Diversity, Equity, and Inclusion initiatives, please see http://diversity.wvu.edu.

**SALE OF COURSE MATERIALS:** All course materials, including lectures, class notes, quizzes, exams, handouts, presentations, and other materials provided to students for this course are protected intellectual property. As such, the unauthorized purchase or sale of these materials may result in disciplinary sanctions under the Campus Student Code. (https://studentconduct.wvu.edu/policies-and-procedures)

**STUDENT EVALUATION OF INSTRUCTION:**

Effective teaching is a primary mission of West Virginia University. Student evaluation of instruction provides the university and the instructor with feedback about your experiences in the course for review and course improvement. Your participation in the evaluation of course instruction is both strongly encouraged and highly valued. Results are strictly confidential, anonymous, and not available to the instructor until after final grades are released by Admissions and Records. Information about how you can complete this evaluation will be provided by your instructor.

 WVU ACCESS Biology 102 Schedule
Amended schedule

WVU Lecture Coordinator: Dr. Sydha Salihu

WVU Lab Coordinator: Dr. Jennifer Ripley Stueckle

**Module 4: Animal physiology, digestion, circulation and respiration**

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| --- | --- | --- |
|  | Animal Physiology |  21.1-21.6 |
|  | Animal physiology | 21.7-21.10 |
|  | Digestive system | 23.1; 23.8-23.12 |
|  | Digestive system | 23.17-23.18**Online HW due 3/5** |
|  | Circulatory system | 22.1-22.4 |
|  | Circulatory system | 22.5-22.9 |
|  | Circulatory system | 22.10-22.11**Online HW due 3/12** |
|  | Respiratory system | 22.12-22.15 |
|  | Respiratory system | 22.17-22.19 |
| **3/25** | **Exam 3** |  |

**Module 5: Cellular respiration, immune system and nervous system**

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| --- | --- | --- |
|  | Cellular respiration | 5.12-5.15 |
|  | Cellular respiration | 5.16-5.17**Online HW due 4/29** |
|  | Immunity and health | 27.1-27.4 |
|  | Immunity and health | 27.5-27.8COVID-19 HW due in turnitin 4/14 |
| 4/6-4/10 | Spring break |  |
|  | Immunity and health | 27.9-27.13**;** **Online HW due 4/29** |
|  | Nervous system | 24.1-24.6 |
|  | Nervous system | 24.7-24.98; 24.19, 24.21 |
|  | Neurotransmitters | **Online HW due 4/29** |
| 4/22 | Exam 4 |  |

**Module 6: Muscular system and Hormones**

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| --- | --- | --- |
|  | Muscular system | 24.14-24.15 |
|  | Muscular system |  |
|  | Hormones | 25.1-25.5 |
|  | Hormones | 25.11**Online Posttest due 4/29** |
|  | Review |  |

Final Exam: May 4, 2020

Where: Same classroom as lecture; Put this date on your calendar

No make-up for final exam