

**Instructor - Dr. Ted Uyeno**

**Office** – NOTE: This course has been put online due to COVID – 19. I am not holding in office hours this semester. Please contact me by email.

**Bailey Science Center Rm. 2208**

Phone: 249-4940, Bio office – 333-5759

Email: [tauyeno@valdosta.edu](mailto:tauyeno@valdosta.edu)

(Note: I do not respond to Blazeview email)

**Hours -**

**Office:** Virtual, by appointment ([tauyeno@valdosta.edu](mailto:tauyeno@valdosta.edu))

**Course:** Lab – Section B (24677) – asynchronous online  
Lab – Section E (24680) – asynchronous online  
Lab – Section F (24681) – asynchronous online  
Lab – Section G (24682) – asynchronous online  
Note all sections are combined into one Blazeview course home:  
[Principles of Biology Lab II XLS group AP Spring 2021 CO](#)

*Asynchronous online classes do **not** have specific meeting times as not all students are available at any one time. Please feel free to contact me at [tauyeno@valdosta.edu](mailto:tauyeno@valdosta.edu) whenever the online material leaves you with questions or comments!*

**Laboratory Manual** – Grove, T.J. Biology Lab Manual. Great River Learning, ISBN 9781680750201, available from the bookstore or publisher at [grtep.com](http://grtep.com).

Note: You must register for the online lab manual using the access code from the bookstore or directly with publisher on their website.

**Course Goals:** The primary goal of this course is to introduce structure-function relationships and physiological processes of plants and animals. This is the second introductory course, and it is expected that you are familiar with topics covered in BIOL1107 so that you can build on your foundational knowledge of biology. At the end of the semester you will be able to successfully complete higher-level courses as a science major.

**Course Objectives:** Upon completion of this course the student should be able to:

- Increase your understanding of structure-function relationships in biology
- Increase your understanding of the physiology of the major systems in plants and animals including:
  - o Structure/function relationships
  - o Nutrition
  - o Transport
  - o Movement
  - o Reproduction
  - o Development
  - o Sensory systems
- Strengthen your ability to critically analyze scientific data and test scientific hypotheses
- Cultivate the linkage of biology with math, physics, and chemistry

**Pre-Requisite:** BIOL 1107 Unifying Principles of Biology I & Lab or permission of the instructor. Note a grade of C or higher is required in both these lectures and labs along with all science & math courses in the Science major.

**Attendance: MANDATORY!** Please note: 1) I keep track of attendance by recording your access to virtual exercises and on-time submission of exercises. 2) Online cheating is as offensive as in person cheating. 3) **NO** use of cheating websites, such as chegg.com. Such websites are now scanned for interaction, and can result in expulsion. Students missing 20% of the material will receive a grade of “F” **regardless** of standing.

**Students with Documented Disabilities:** I would like to teach everyone; Students needing reasonable accommodations should contact me and the Access Office for Students with Disabilities at the beginning of the semester. (Access office; Farber Hall, 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit VSU’s Access Office or email: [access@valdosta.edu](mailto:access@valdosta.edu).)

**Assessment:**

**Lab Practicals:** Two lab practicals are given during the course covering what you have learned on animals and plants. Each counts 100 points to your final lab grade (see schedule below). Note: For many of you a lab practical is a new form of examination. Practicals test what you have learned across the labs by asking you questions requiring your prior observations, descriptions, and interpretation of materials explored in the lab. So use the time in lab wisely to expand upon the information and assignments given to you in the lab manual. Then go back and study prior to the in lab practical.

**Miscellaneous Assignments:** During the course, students will be required to complete the online pre- and post- quizzes available in the online laboratory manual adopted by the biology department for this course. These grades, as well as lab attendance, in-lab quiz grades, and various homework assignments are summed and a percentage grade is calculated on a 100% scale. These combined assignments will count as 1/3<sup>rd</sup> of your laboratory grade. I will post the three categories of grades on BlazeVIEW, but the individual miscellaneous assignments may be maintained separately from BlazeVIEW. However, these assignments can simply be totaled up and divided by the total possible points to find your overall percent for this category.

Final grades are based on a percentage of your cumulative points relative to the total points possible:

Practical 1 (Animals):	100 pts
Practical 2 (Plants):	100 pts
Misc. Assignments:	100 pts
<b>Total:</b>	<b>300 pts</b>

**Privacy Act:** The FERPA Privacy Act does not allow me to discuss grades over the phone, sent to non-VSU email addresses, or be given to friends or relatives.

**Ethics:** Refer to the Student Code of Ethics in the Valdosta State University Student Handbook. A student caught cheating will be penalized ranging from receiving a zero for that assignment or test to failing the class. **No first warning will be given.** Title IX: VSU is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment

regardless of race, color, ethnicity, national origin, sex, religion, age, disability, genetic information, or veteran status Office of Social Equity, [titleix@valosta.edu](mailto:titleix@valosta.edu), 229-333-5463.

**Biology Tutoring:** The Academic Success Center (ASC) at Valdosta State University is located in the Odum Library and is available to all students. The ASC provides free peer tutoring in core curriculum courses, including biology, chemistry, math, writing, and foreign languages. The SSC also provides free professional academic advising and on-campus job information in one location. Call 333-7570 to make an appointment, or visit the website: [www.valdosta.edu/asc](http://www.valdosta.edu/asc).

**Access Office:** Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245-2498 (V/VP) and 219-1348 (TTY) or visit the website or email [access@valdosta.edu](mailto:access@valdosta.edu).

**Title IX Statement:** Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: the Director of the Office of Social Equity, [titleix@valdosta.edu](mailto:titleix@valdosta.edu), 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31698, 229-333-5463.

**SOI Statement:** At the end of the term, all students will be expected to complete an online Student Opinion of Instruction survey (SOI) that will be available through SmartEvals. Students will receive an email notification through their VSU email address when the SOI is available (generally at least one week before the end of the term). SOI responses are anonymous to instructors/administrators, and they will be able to access results only after they have submitted final grades. Before final grade submission, instructors will not be able to see any responses, but they can see the percentage of students who have or have not completed their SOIs. While instructors will not be able to see student names, an automated system will send a reminder email to those who have yet to complete their SOIs. Students who withdraw or drop a course will also be sent invitations to complete the Dropped Course Survey. Complete information about the SOIs, including how to access the survey, is available on the SOI Procedures webpage.

**Important Dates:** Jan 18 – MLK Day, Feb 16 – Well Day 1, Mar 4 – Semester midpoint, Mar 17 – Well Day 2, Apr 2 – Well Day 3, Apr 15 – Well Day 4.

**While this lab has no scheduled final exam, the Registrar's schedule can be found here:** <http://www.valdosta.edu/academics/registrar/documents/spring-2021-final-exam-schedule.pdf>

**Tentative Laboratory Schedule Outline**  
**– This is the order in which we will cover topics.**

	Week of	Lab material		Online Pre-lab		Online Post-lab	
				open	close	open	close
1	11-Jan	No Lab	First week of classes	<i>No Lab this week</i>			
2	18-Jan	Lab 1	Introduction, Safety, Statistics	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>
3	25-Jan	Lab 7	Diversity Part I	11-Jan	25-Jan	25-Jan	1-Feb
4	1-Feb	Lab 8	Diversity Part II	11-Jan	1-Feb	1-Feb	8-Feb
5	8-Feb	Lab 9	Animal Tissues	11-Jan	8-Feb	8-Feb	15-Feb
6	15-Feb	No Lab	Omit Sensory System (Lab 11)	<i>No Lab this week</i>			
7	22-Feb	Lab 10	Fetal Pig Anatomy	11-Jan	22-Feb	22-Feb	1-Mar
8	1-Mar	Lab 12	Cardiovascular System	11-Jan	1-Mar	1-Mar	8-Mar
9	8-Mar	TEST 1	Animal Lab Practical	<i>No Lab this week</i>			
10	15-Mar	Lab 2	Nonvascular Plants	8-Mar	15-Mar	15-Mar	22-Mar
11	22-Mar	Lab 3	Vascular Plants	8-Mar	22-Mar	22-Mar	29-Mar
12	29-Mar	Lab 4	Plant Cells, Organs and Growth	8-Mar	29-Mar	29-Mar	5-Apr
13	5-Apr	Lab 5	Angiosperm Development	8-Mar	5-Apr	5-Apr	12-Apr
14	12-Apr	Lab 6	Growth and Transpiration	8-Mar	12-Apr	12-Apr	
15	19-Apr	Lab 6	Continued from last week				26-Apr
16	26-Apr	TEST 2	Plant Lab Practical	<i>No Lab this week</i>			
17	3-May	No Lab	<i>Please submit SOIs this week</i>	<i>No Lab this week</i>			

<i>Special days in the semester</i>	
18-Jan	MLK Day
16-Feb	Well Day 1
4-Mar	Middle of term
17-Mar	Well Day 2
2-Apr	Well Day 3
15-Apr	Well Day 4

**Some additional materials you will need for the online lab paper model exercises:**

- A pack of a dozen colored pencils.
- A sharp pair of scissors
- One ream of white card stock (get the “65lb” weight and no more than a 100 pack)
- A small ( $\leq 4\text{oz}$ ) bottle of white glue (Elmer’s is fine, but I like the “Tacky” glues better)

You will also be making extensive use of MS Word, MS Excel, Adobe Acrobat Pro (for help using these I found [solutions.valdosta.edu](http://solutions.valdosta.edu) to be quite helpful.)

## Learning contract – Dr. T. Uyeno

- 1) **I care** – I teach because I want to make a contribution to your successful career. You must also promise to make the effort to rise to expectations worthy of your own future goals.
- 2) **Knowledge ownership** – “You can lead a horse to water, but you can’t make him drink”. I try really hard do three things to lead students to knowledge. A) I select only the most important topics. B) I organize the topics so each lecture builds on previous ones. C) I include current and personal details to make the class relevant, interesting, and cutting edge. This effort is lost on students who expect proficiency to come from little more than simply listening to lectures and last minute cramming. Your success is proportional to your amount of effort and review.
- 3) **Self-motivation** – College is not an extension of a kid’s legally-required high-school education. It is an adult’s entry into the job market. The distinction is important because your future career job application will hinge on your college transcript. Your peer competition understands this and is doing all he or she can to out-perform you. I try hard to motivate you, but ultimately, good grades only go to students with high internal drive.
- 4) **Synthetic thinking** – A fancy way of saying “make connections”. I will give you new conceptual “tools”, so become a tool user. Own your newfound knowledge and use it to understand your world. If you come across something that’s peripherally related to class material, ask questions about it. You can’t help but become motivated when you’re mentally engaged.
- 5) **Honesty and integrity** – Do not cheat. People who care about you, including me, expect more from you than that. I punish cheaters to the fullest extent allowed by the Student Code and in the future it is tough explaining why you should be given the job or admitted to grad school when your transcript has an F because you got caught plagiarizing or palming a crib note.
- 6) **Participate!** – Have a question? Ask it! Here is a universal truth: if you have a question, chances are good that someone else is wondering the same thing. You’re not alone and I will never, ever belittle you for trying to learn. It makes for engaged learning and who knows, maybe your question unlocks a fundamental concept that half of the final exam questions are about. My deal for shy people: I won’t pick on you if you promise not to keep questions bottled up.
- 7) **Email etiquette** – Emails lack non-verbal cues and often lead to unintended consequences. As such, I require you to email me using standard formal etiquette: A) Include a salutation, (e.g. Dear Dr. X or Hello Prof. X, not Hey), B) follow this by a complete description of your question/message, and C) always sign off using a complementary closing and your name/ID number. I do not respond to emails that do not have all these components. Use your VSU email address; others are often blocked by our inbox system.
- 8) **Start early** – This class is fast moving, and builds on itself; there is no time later to catch up.
- 9) **Priorities** – In signing this, you have made the commitment to learn. It is a priority that is similar to that of a paying job. To teach you effectively, I require you to show up on time, to be mindful of the above points and be respectful to me and your fellow students.

I have read and understand these crucial tips for success: \_\_\_\_\_  
Name Date