

**BIOL 1108K, Principles of Biology II**  
**Fall Semester, 2017**      **Sections A, B, C**

**Lecture (BC 1023):**                      **TR    2:00 p.m. - 3:15 p.m.**  
**Laboratory (BC 1073):**                **Section A (CRN 82067): Wed.: 10:00 a.m. – 12:50 p.m.**  
    **Section B (CRN 82068): Wed.: 2:00 p.m. – 4:50 p.m.**  
    **Section C (CRN 82069): Thurs.: 9:30 a.m. - 12:20 p.m.**

**Instructor:** Dr. Russ Goddard, BC 2090. (Phone 249-2642; or Dept. office 333-5759)  
(**Office hours:** TWR 1:00 – 1:50 p.m.; TR 3:30 – 4:00 p.m.)  
**Email:** [rgoddard@valdosta.edu](mailto:rgoddard@valdosta.edu) **Note:** This is the official electronic contact method and address for Dr. Goddard!

**Dr. Goddard does not respond to email sent through BlazeView!**

**Course Catalog Description:** BIOL 1108 Principles of Biology II; 3-3-4; An introduction to physiological processes in plants and animals. Structure, nutrition, transport, coordination, reproduction, and development are addressed.

**Required Materials:**

**Text:** Sadava, D., D.M. Hillis, H.C. Heller, and S.D. Hacker. 2016. **Life: The Science of Biology. 11th**  
<https://www.grtp.com/index.cfm/core/General/index>

Direct Course link: <http://vsu.grtp.com/index.cfm/bioprelab/page/topicslabprep>

**Student Recommended Laboratory Study guide:** Van De Graaff's Photographic Atlas for the Biology Laboratory, 7e.

<https://www.morton-pub.com/catalog/biology/van-de-graaffs-photographic-atlas-biology-laboratory-7e>

**General Objectives:** This course continues the introduction to basic principles of biology started in BIOL 1107. Where BIOL 1107 focused on cellular structure and function addressing how life is similar through unifying cellular mechanisms, BIOL 1108, in concept, was designed as a comparative organismal physiology course to address organismal function and the diversity seen in life as defined by variations in multicellular organism structure and function. One way of interpreting how we study function (organisms) is that we really ask two basic questions; 1)

final grade.

**Lecture grade:** (100 pts). During this course the instructor will require students to read all text book chapter material before it is presented in class. Further, students will be assigned “Learning Curve” quizzes to complete within the LaunchPad web site before the material is scheduled in class. All learning curve quizzes must be completed by the due date regardless of whether the instructor’s lectures are keeping up with the schedule. Once the chapter material is completed in lecture, a new assignment called the “summative chapter quiz” will be assigned on LaunchPad for each chapter presented. Adequate time will be given to complete the summative quiz before your opportunity to take it expires. The lecture exam will consist of a single chapter score that is the average between the LaunchPad score (effectively 100%) and your summative quiz score. All chapter scores will be added and computed as a percent score for the final lecture score to count 100 pts towards your final grade.

**Final Exam (100 pts):** The final comprehensive exam is scheduled for Wednesday, December 6<sup>th</sup> from 2:45 – 4:45 p.m. in our classroom. Students will have the option of taking this exam or skipping it and counting it as their “drop” grade.

**Dropped grade:** The lowest score you receive among either the four



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Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farbar Hall. The phone numbers are 229-245-2498 (V) and 229-375-5871 (VP). For more information, please visit <http://www.valdosta.edu/access> or email: [access@valdosta.edu](mailto:access@valdosta.edu).

**Tentative Lecture and Lab schedule (subject to revision):**

Lecture:				Laboratory:	
Lecture	Date:	Topic :	Chapter Reading(s) pages	Day(s)	Exercise
1	15 Aug.	How is physiology important in our understanding of biology?	<b>PowerPoint lecture 1</b>	16,17 Aug.	Independent Lab Assignment:  <b>Introduction to Basic Statistics</b>
2	17 Aug.	History of Life on Earth	Pg. 507 – 527		
3	22 Aug.	Phylogeny	Pg. 448 – 466	23, 24 Aug.	Nonvascular, Seedless Plants: Mosses, Liverworts, and Hornworts
4	24 Aug.	Bacteria and Archaea	Pg. 528 – 551		
5	29 Aug.	Origin and Diversification of Eukaryotes	Pg. 552 – 571	30, 31 Aug.	Vascular Plants: Ferns, Gymnosperms and Angiosperms
6	31 Aug.	Evolution of Plants 1: Nonvascular to vascular plants	Pg. 572 – 591		
7	5 Sept.	Evolution of Plants 2: evolution and diversification of seed plants	Pg. 592 – 612	6, 7 Sept.	Angiosperm Reproduction
8	7 Sept.	Reproduction in Flowering Plants	786 - 804		
9	12 Sept.	The Plant Body	Pg. 715 – 734	13, 14 Sept.	Angiosperm Development
10	14 Sept.	<b>Exam #1</b>			
11	19 Sept.	Gas Exchange & Transport in Plants	Pg. 735 - 749	20, 21 Sept.	Plant Cells, Vegetative Organ Structures, and Patterns of Growth

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24	7 Nov.	Salt and Water Balance and Nitrogen Excretion	Pg. 1093 - 1114	8, 9 Nov.	Sensory Systems
25	9 Nov.	Animal Circulatory Systems	Pg. 1043 - 1067		
26	14 Nov.	Neurons and Nervous Systems	Pg. 938 - 959	14, 15 Nov.	Cardiovascular System
27	16 Nov.	Musculoskeletal Systems:	Pg. 1001 - 1021		
28	21 Nov.	Sensory Systems	Pg. 960 - 980	22 Nov.	Thanksgiving Holiday, No Labs this week
29	23 Nov.	Animal Reproduction	Pg. 899 - 921		
30	28 Nov.	<b>Exam 3</b>		29, 30 Nov.	<b>Final Lab Practical</b>
	6 Dec.	<b>Final Exam Period: 2:45 - 4:45 p.m. in in BC 1023</b>			