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Biology Department, College of Arts & Sciences, Valdosta State University

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FALL 2018----COURSE SYLLABUS\*

BIOL 4510 Virology (CRN 82011) -- 3 credit hours

BIOL 6510 Virology (CRN 82026) -- 3 credit hours

Class: MW 3:30-4:45 pm, 2022 Bailey Science Center

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Instructor: Dr. Jenifer Turco

Telephone: 229-249-4845

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

Office: 2091 Bailey Science Center

Office Hours: Wed., 5:00-5:30 pm; Thurs. 12:30-1:30 pm; or by appointment. cellular infectious agents. Topics include the structure, replication, effects on their host, and host responses. Methods for studying evolution, and their uses in biotechnology will also be discussed.

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Required Textbook: UNDERSTANDING VIRUSES, Third Edition  
By Teri Shors  
Jones & Bartlett Learning 2017  
ISBN 978-1-284-02592-7  
UNDERSTANDING VIRUSES, Second Edition  
By Teri Shors  
Jones & Bartlett Learning  
Students should consult periodically.

Other Materials: Calculator that is not integrated with a cell phone

One flash drive (or CD) for oral presentation (Email may not be used to access)

PowerPoint  
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SPECIAL NOTES TO STUDENTS (continued):

3. 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 229245-2498 (V), 229375-5871 (VP) and 229249-1348 (TTY). For more information, please visit VSU's Access Office or email [access@valdosta.edu](mailto:access@valdosta.edu)

4. 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 pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, 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: Maggie Viverette, Director of the Office of Social Equity,

Each Core Area (A1, A2, B, C, D, and E) has one or more learning goals. In this syllabus they are referred to as VSUA1, VSUA2, VSUB, VSUC, VSUD, and VSUE

The Biology Undergraduate Educational Outcomes (numbered 1-5) are available in the VSU Undergraduate Catalog, and the Biology Graduate Educational Outcomes are available in the VSU Graduate Catalog and are numbered 1 through 4. Both catalogs are available online at <http://www.valdosta.edu/academics/catalog/>

Alignment of Course Objectives with Learning Goals/Educational Outcomes:

Course objective (1) relates to VSU Core Curriculum Learning Goals VSUA1, VSUB, VSUC, and VSUD; Biology Undergraduate Educational Outcomes 2, 3, 4, and 5; and Biology Graduate Educational Outcome 1.

Course objectives (2) & (3) relate to VSU Core Curriculum Learning Goals VSUA1, VSUB, VSUC, and VSUD; Biology Undergraduate Educational Outcomes 4, and Biology Graduate Educational Outcomes 1 and 2.

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TENTATIVE CLASS SCHEDULE  
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Date	Topics	Related material in text
Mon. Aug. 13	General course information Introduction to viruses Impact of viruses	Ch. 1
Wed. Aug. 15	Molecular biology & host cell <u>***BIOL 6510 students should meet with the instructor to discuss topics for their term papers.</u>	Ch. 2 (2 <sup>nd</sup> E); Ch. 3 (3 <sup>rd</sup> E)
Mon. Aug. 20	Virus architecture and nomenclature Virus replication cycles <u>***Lottery to determine order of selection of topics for oral presentations</u>	Ch. 3&4 (2 <sup>nd</sup> E); Ch. 2&3 (3 <sup>rd</sup> E)
Wed. Aug. 22	Virus replication cycles <u>***Select topics for oral presentations from list.</u>	Ch. 4 (2 <sup>nd</sup> E); Ch. 3 (3 <sup>rd</sup> E)
Mon. Aug. 27	Laboratory diagnosis of viral diseases & Working with viruses in the research laboratory	Ch. 5 (2 <sup>nd</sup> E); Ch. 7 (3 <sup>rd</sup> E)
Wed. Aug. 29	Laboratory diagnosis of viral diseases & Working with viruses in the research laboratory	Ch. 5 (2 <sup>nd</sup> E); Ch. 7 (3 <sup>rd</sup> E) To be announced
Mon. Sept. 3	Labor Day (holiday)	
Wed. Sept. 5	Mechanisms of viral entry & spread of infection in the body	Ch. 6 (2 <sup>nd</sup> E); Ch. 4 (3 <sup>rd</sup> E)
Mon. Sept. 10	Mechanisms of viral entry & spread of infection in the body Host resistance to viral infections <u>***Primary source for oral presentation is due. (BIOL 4510&amp;BIOL 6510)</u>	Ch. 6 (2 <sup>nd</sup> E); Ch. 4 (3 <sup>rd</sup> E) Ch. 7 (2 <sup>nd</sup> E); Ch. 5 (3 <sup>rd</sup> E)

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 TENTATIVE CLASS SCHEDULE  
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Date	Topics	Related material in text
Wed. Sept. 2	EXAM 1 (material covered through Sept. 10)	
Mon. Sept. 17	Host resistance to viral infections	Ch. 7 (2 <sup>d</sup> E); Ch. 5 (3 <sup>d</sup> E)
Wed. Sept. 19	Epidemiology	Ch. 8 (2 <sup>d</sup> E); Ch. 6 (3 <sup>d</sup> E)
Mon. Sept. 24	History of medicine, clinical trials, gene therapy, & Xenotransplantation <u>***References for term paper are due. *** (BIOL 6510)</u>	Ch. 9 (2 <sup>d</sup> E); Ch. 17 (3 <sup>d</sup> E)
Wed. Sept. 26	Viruses and cancer <u>***Written report is due . *** ( BIOL 4510)</u> Brief student presentations on written reports/papers (atte	Ch. 10 (2 <sup>d</sup> E); Ch. 16 (3 <sup>d</sup> E); Ch. 13 (3 <sup>d</sup> E); Ch. 14 (3 <sup>d</sup> E); Ch. 15 (3 <sup>d</sup> E)

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 TENTATIVE CLASS SCHEDULE  
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Date	Topics	Related material in text
<u>Wed. Nov. 7</u>	Student oral presentations (attendance required)	
<u>Mon. Nov. 12</u>	Student oral presentations (attendance required)	
<u>Wed. Nov. 14</u>	Student oral presentations (attendance required)	
<u>Mon. Nov. 19</u>	Student oral presentations (attendance required)	
----- THANKSGIVING HOLIDAY -----		
<u>Mon. Nov. 26</u>	Student oral presentations (attendance required)	
<u>Wed. Nov. 28</u>	Student oral presentations (attendance required)	
<u>Mon. Dec. 3</u>	Student oral presentations (attendance required)	
<u>Thurs. Dec. 6</u>	Comprehensive Final Exam 2:45-4:45 pm	

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ATTENDANCE. Attendance will be checked in classes stated in the VSU Undergraduate Catalog, "A student who misses more than 20% of the scheduled classes of a course will be subject to receiving a failing grade in the course." Students are required to attend and participate during class periods when student reports are scheduled. Missing or not participating in more than one of these required classes will result in the loss of points as follows: fifty points will be deducted for each absence beyond the second absence.

EXAMINATIONS. Examinations may include questions of the multiple choice, matching, true/false, short answer, problem, and essay formats. Three exams will be given (two exams plus the final exam). The second

date, must also be included. Please check the line spacing in Word (or other word processing program) and be sure that extra space is not inserted below each line. The topic of the article chosen by the student for this written report must not be closely related to the topic chosen for the oral report. The article may be an informal article from *Science* or other scientific publications, an article from *Scientific American*, a short review article from *Science* or *Emerging Infectious Diseases*, an article from *Morbidity and Mortality Weekly Report*, a formal article from other scientific journals, etc. The report will be worth 100 points. A plagiarized report will receive a score of 0. No direct quotations from the article are permitted in the paper. On the day the report is due, each student should come to class prepared to speak to the class about his/her article/report (2

Grading scale:  $\geq 900$ , A; 800-899, B; 700-799, C; 600-699, D;  $\leq 599$ , F

BIOL 4510:

Points:	Exam 1	210 points
	Exam 2	210 points
	Final Exam	250 points
	Written report (course objectives 2 & 3)	100 points
	Oral report (course objectives 2 & 3)	230 points
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	Total	1000 points

BIOL 6510:

Points:	Exam 1	210 points
	Exam 2	210 points
	Final Exam	250 points
	Term Paper (course objectives 2 & 3)	150 points
	Oral report (course objectives 2 & 3)	180 points
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	Total	1000 points