

Course Syllabus

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I. Course Information

Course Title: Integrated Principles of Biology

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Course No. and Section: BSC2010 (71)

Instructor Name: Karen Stancil, Ph.D.

Credit Hours: 3

Course Location: ONLINE/Canvas

Office Location: 2-217D

Office Hours: Online MTW 8am-10am

Telephone No.: 352-854-2322 x1657

Email: stancilk@cf.edu (<mailto:stancilk@cf.edu>)

Meeting Day & Time: NA

Meeting Dates: NA



II. Course Description

This course covers the chemistry of biological molecules, the architecture and organization of cells, the reactions that enable living systems to obtain and utilize energy, as well as classical, modern, and human genetics. To receive lab credit, students should also register for BSC2010L. This course is intended to serve as an introductory class for students of the biological sciences (i.e. a course for science majors).

Objectives:

- Develop an understanding of cellular structure and function.
- Develop an understanding of basic metabolic pathways that enable organisms to obtain and utilize energy.
- Apply principles of genetics and molecular biology to explain how genes are inherited and affect organism phenotypes.

Pre/Corequisites: To be successful in this class, you will need strong reading, writing, and math skills, up to and including algebra.

Required Text:

Biology by OpenStax College. 2013; ISBN-13: 978-1-938168-09-3

- This is an open source (i.e. FREE) textbook. You can obtain a free electronic copy of this textbook using this link: [Biology by OpenStax textbook \(https://openstax.org/details/books/biology-ap-courses\)](https://openstax.org/details/books/biology-ap-courses)
- If you want a printed/hard copy of this textbook, there is a cost. This can be purchased online from the same website or through the CF bookstore. **This is optional, and you are not required to purchase a copy. However, if you dislike reading on a screen, please buy a printed book.**

Other Required Materials:

- a computer, laptop, or tablet
- robust internet access (note: available at the CF Library and hotspots around campus)

III. Student Learning Outcomes/Course Objectives

The following list offers students a consistent way to see how CF's global learning outcomes are assessed in each class. This is for information purposes only and does not change the grading system used in this class. Only those learning outcomes relevant to this course are included below.

This course assesses the following CF Institutional Learning Outcomes for Critical Reasoning:

1. Accurately interpret evidence, statements, graphics, questions, etc. (Homework and Exams)
2. Identify important arguments. (Homework and Exams)
3. Thoughtfully analyze and evaluate alternative points of view. (Homework and Exams)
4. Draw valid conclusions. (Homework and Exams)
5. Justify and explain assumptions and reasons. (Homework and Exams)

IV. Assessment

Your course grade will be calculated from homework, assignments and exams. One low homework score, one low lecture score, and one low exam score will be dropped (i.e. not count towards the final grade). **All assignments and exams must be submitted during the posted time frame (no exceptions).** Once you begin your online exams, the allotted time will begin and you will not be permitted to “save” your progress to resume later. This means that you should not begin the exams until you are prepared to complete them in their entirety. **No makeup assignments (homework or exams) will be given.** *If the instructor determines that a student will take an exam at another time due to a college activity or medical situation, the exam will be administered in a proctored location, will be closed-notes, and will be in an essay format. These exams will only be given at other times under extreme circumstances and are up to the instructor’s discretion.*

Semester grades will be assigned as follows: A=100-90.0%, B+=89.99-87.0%, B=86.99-80.0%, C+=79.99-77.0%, C=76.99-70.0%, D=69.99-60.0%, F=59.99% and below. **Any grade disputes must be brought to the instructor’s attention within one week of grade posting.** After 7 days, each assignment’s grade is final. The study sheet assignments (listed on the course schedule) are the only opportunities available for extra credit. They must be submitted by the deadlines posted on the course schedule.

SPECIAL NOTE: The final grade depends solely on the student’s performance on class requirements during the scheduled class term. There is no “extra credit” after the term closes. The instructor will not entertain any discussions about grade changes unless there has been a calculation error.

Semester Grade:

- Homework-50%
- Lectures-20%
- Exams-30%

NOTE: It is recommended that students do not travel or take vacations during this course. However, if a student chooses to do this, they must ensure that they have reliable wifi and computer access. They will be expected to complete all assignments as scheduled.

General Policies

- Late assignments will NOT be accepted. Keep this in mind and plan ahead.
Technical difficulties and/or unforeseen situations can occur at the last

minute and these will NOT be considered valid excuses.

- There are NO makeup assignments or exams.
- Cheating and plagiarism will NOT be tolerated; engaging in these activities may result in a grade of "F" for the course, regardless of the number of violations.
- Online exams are meant to be completed with notes only. If a student "leaves" a canvas quiz to access any other programs/materials/browser tabs/etc. on their computer during an exam, this will be considered cheating. Be advised that this is monitored by canvas. Canvas does consider access of a digital textbook on the computer being used for the quiz as "leaving". If you are using textbook notes/materials during a quiz, they must be on a separate device and/or printed.
- Students are expected to work alone on exams. Be aware that the statistics feature in Canvas monitors how and when students complete online assignments (including exams). IP addresses trace user location and are recorded. If two students take exams at the same time and IP address, the possibility of cheating may be pursued.
- Exams and assignments will NOT be re-scheduled for students that travel during the course. Unless CF is officially closed, students are expected to be able to complete all work as originally scheduled.
- Final course grades will be determined with strict adherence to the Assignment/Grades section of the syllabus. No supplemental assignments will be considered.

V. Course Schedule/Outline

This is an online course. The course materials and assignments will be through Canvas (<https://cf.instructure.com>), and it is the student's responsibility to ensure sufficient internet access to obtain the course materials and complete course assignments. Course work CANNOT be made up. Lack of internet access and/or individual computer problems WILL NOT be considered valid excuses. Recorded videos and supplemental study resources will be delivered through Canvas. Students are expected to check Canvas at least once each weekday (Monday through Friday) to ensure that they do not miss any announcements or emails from the instructor. Grades will be viewable in Canvas at all times.

MODULE	DUE DATE	ASSIGNMENTS
Module 1	5/17	Introduction Discussion-- initial post

Final Deadline 6/3	5/19	Ch2 Homework & Lectures
	5/19*	Introduction Discussion--replies
	5/26	Ch3 Homework & Lectures
	6/2	Ch4 Homework & Lectures
	6/2*	Ch 2-4 Study Sheet-EXTRA CREDIT
	6/3	Exam 1 (Chapters 2-4): Thurs, June 1 – Sat, June 3 ONLY
Module 2 Final Deadline 6/17	6/7	Ch5 Homework & Lectures
	6/12	Ch6 Homework & Lectures
	6/16	Ch7 Homework & Lectures
	6/16*	Ch 5-7 Study Sheet-EXTRA CREDIT
	6/17	Exam 2 (Chapters 5-7): Thurs, June 15 – Sat, June 17 ONLY
Module 3 Final Deadline 7/1	6/21	Ch8 Homework & Lectures
	6/26	Ch9 Homework & Lectures
	6/30	Ch10 Homework & Lectures
	6/30*	Ch 8-10 Study Sheet-EXTRA CREDIT
	7/1	Exam 3 (Chapters 8-10): Thurs, June 29 – Sat, July 1 ONLY

Module 4 Final Deadline 7/22	7/7	Ch11 Homework & Lectures
	7/14	Ch12 Homework & Lectures
	7/21	Ch13 Homework & Lectures
	7/21*	Ch 11-13 Study Sheet-EXTRA CREDIT
	7/22	Exam 4 (Chapters 11-13): Thurs, July 20 – Sat, July 22 ONLY
Module 5 Final Deadline 8/5	7/26	Ch14 Homework & Lectures
	7/31	Ch15 Homework & Lectures
	8/4	Ch16 Homework & Lectures
	8/4*	Ch 14-16 Study Sheet-EXTRA CREDIT
	8/5	Exam 5 (Chapters 14-16): Thurs, Aug 3– Sat, Aug 5 ONLY
8/8	8/8	FINAL EXAM (all chapters from term, Ch2-16): Sun, Aug 6 – Tues, Aug 8 ONLY








*All posted deadlines are 11:59pm EST. Note that the study sheet assignments and introduction discussion MUST be submitted on time. These deadlines are FIRM and no late submissions will be accepted. Other assignments will be accepted up to but no later than the final deadline of the module.


The College of Central Florida is committed to helping you succeed and achieve your academic, personal and career goals. There are a wide range of resources and support services available to you. When students are connected early to resources and support systems on campus they are more likely to stay in classes, perform better in those classes, and complete their path more quickly. One example is through an Early














Support Program, where you may receive an email indicating your professor or advisor is reaching out directly to help connect you to support services. This may include connecting you to tutoring, financial support, psychological support services, and disability services just to name a few. Be aware, you can also reach out to these services on your own as well. Additionally, we offer free tutoring, disability services, a testing center, and many other resources which are all available to you. Please refer to the College Resources, Dates, and Policies document in the lefthand navigation of your Canvas course to learn more about these supports.








Class Schedule

Course Summary:

Date	Details	Due
Wed May 17, 2023	 Ch2 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944573) 	due by 11:59pm
	 Ch2-Homework (https://cf.instructure.com/courses/1820608/assignments/13944519) 	due by 11:59pm
	 Introduction Discussion-Initial Post (https://cf.instructure.com/courses/1820608/assignments/13944593) 	due by 11:59pm
Fri May 19, 2023	 Ch3 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944575) 	due by 11:59pm
	 Ch3-Homework (https://cf.instructure.com/courses/1820608/assignments/13944523) 	due by 11:59pm
	 Introduction Discussion Forum-Note that the initial post has an earlier deadline (see course schedule on syllabus page) (https://cf.instructure.com/courses/1820608/assignments/13944551) 	due by 11:59pm
Tue May 30, 2023	 Ch 2-4 Study Sheet-No late submissions accepted (https://cf.instructure.com/courses/1820608/assignments/13944571) 	due by 11:59pm

Date	Details	Due
	 Ch4 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944577)	due by 11:59pm
	 Ch4-Homework (https://cf.instructure.com/courses/1820608/assignments/13944537)	due by 11:59pm
Wed May 31, 2023	 Exam 1 (Chapters 2-4)- Requires Respondus LockDown Browser (https://cf.instructure.com/courses/1820608/assignments/13944545)	due by 11:59pm
	 Ch5 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944581)	due by 11:59pm
Fri Jun 2, 2023	 Ch5-Homework (https://cf.instructure.com/courses/1820608/assignments/13944543)	due by 11:59pm
	 Ch6 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944583)	due by 11:59pm
Tue Jun 13, 2023	 Ch6-Homework (https://cf.instructure.com/courses/1820608/assignments/13944517)	due by 11:59pm
	 Ch 5-7 Study Sheet-No late submissions accepted (https://cf.instructure.com/courses/1820608/assignments/13944579)	due by 11:59pm
Wed Jun 14, 2023	 Ch7 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944585)	due by 11:59pm
	 Ch7-Homework (https://cf.instructure.com/courses/1820608/assignments/13944525)	due by 11:59pm
Thu Jun 15, 2023	 Exam 2 (Chapters 5-7) (https://cf.instructure.com/courses/1820608/assignments/13944511)	due by 11:59pm
	 Ch8 Lectures (https://cf.instructure.com/courses/1820608/assignments/13944589)	due by 11:59pm
Sat Jun 17, 2023	 Ch8-Homework (https://cf.instructure.com/courses/1820608/assignments/13944527)	due by 11:59pm
Mon Jun 26, 2023	 Ch9 Lectures	due by 11:59pm

Date	Details	Due
	(https://cf.instructure.com/courses/1820608/assignments/13944591)	
	 Ch9-Homework	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944531)	
	 Ch 8-10 Study Sheet-No late submissions accepted	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944587)	
Wed Jun 28, 2023	 Ch10 Lectures	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944553)	
	 Ch10-Homework	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944513)	
Thu Jun 29, 2023	 Exam 3 (Chapters 8-10)	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944521)	
	 Ch11 Lectures	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944557)	
Sat Jul 1, 2023	 Ch11-Homework	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944529)	
	 Ch12 Lectures	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944559)	
Mon Jul 10, 2023	 Ch12-Homework	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944549)	
	 Ch 11-13 Study Sheet-No late submissions accepted	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944555)	
Wed Jul 12, 2023	 Ch13 Lectures	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944561)	
	 Ch13-Homework	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944547)	
Thu Jul 13, 2023	 Exam 4 (Chapters 11-13)	due by 11:59pm
	(https://cf.instructure.com/courses/1820608/assignments/13944509)	

Date	Details	Due
Sat Jul 22, 2023	 Ch14 Lectures	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944565	
	 Ch14-Homework	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944533	
Tue Jul 25, 2023	 Ch15 Lectures	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944567	
	 Ch15-Homework	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944535	
Thu Jul 27, 2023	 Ch 14-16 Study Sheet-No late submissions accepted	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944563	
	 Ch16 Lectures	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944569	
	 Ch16-Homework	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944541	
Fri Jul 28, 2023	 Exam 5 (Chapters 14-16)	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944539	
Sun Aug 6, 2023	 FINAL Exam (Ch 2-16)	due by 11:59pm
	https://cf.instructure.com/courses/1820608/assignments/13944515	