



CITY COLLEGES of CHICAGO  
**Olive-Harvey**  
Education that Works

## **COURSE SYLLABUS – BIOLOGY 119 ENVIRONMENTAL BIOLOGY WITH LABORATORY**

Professor:	Dr. Oliver Pergams	Semester/Year:	SPRING 2016
SI Leader (Tutor):	Mr. Gregory Buckner	Course/Section:	119 FJ/FJX
Phone:	773.291.6502	Classroom:	Room 3426
Length of Course:	16 weeks	Credit Hours:	4
E-mail:	<a href="mailto:opergams@ccc.edu">opergams@ccc.edu</a>	Class Hours:	MW 11:15-1:45 PM
Dr. Pergams' Research Web Page:	<a href="http://www.pergams.com">www.pergams.com</a>	Office:	Room 3426
CCC Wetland Web Page:	<a href="http://www.cccwetland.org">www.cccwetland.org</a>	Office Hours	TR 11:00 AM-3:00PM

**PREREQUISITES:** Eligibility for English 101, or grade of C or better in English 100, or Consent of Department Chairperson.

**CATALOG DESCRIPTION:** This general education laboratory course is geared for both environmental science majors as well as non-science majors. The environment and impacts on natural resources, pollution, and ecosystems are emphasized. Writing assignments, as appropriate to the discipline, are part of the course. 2 lecture and 4 lab hours per week. 4 credit hours. This course is equivalent to the Illinois Articulation Initiatives General Education generic course numbered L1905L.

**TEXTBOOKs:** Miller Jr., G.T. and S. Spoolman. 2015. Sustaining the Earth, 11<sup>th</sup> ed. Cengage. ISBN 128576949X.

Fishman, C. 2011. The Big Thirst: A Tour of the Bitter Fights, Breathtaking Beauty, Relentless Innovation, and Big Business Driving the New ERA of High-Stakes Water. Simon & Schuster. ISBN 1439102082.

Mann, M.E. and L.R. Kump. 2014. Dire Predictions 2<sup>nd</sup> ed. DK Publishing. ISBN 1465433643.

**ONLINE HOMEWORK:** You will register at Cengage CourseMate using the individual code in the Access Card in your bundle, as well as the class code provided in the directions included later in this syllabus.

**LAB MANUAL:** Labs will be provide to you in class.

**COMPUTER REQUIREMENT:** Most homework for this class will be done online! You must use a computer with a fast internet connection. There are many such computers available at OHC, or you may choose to go elsewhere.

**GENERAL STUDENT LEARNING OUTCOMES:** The overall goal of this course is to help you understand our environment. To do this we discuss biodiversity, evolution, and impacts on natural resources, pollution, and ecosystems. You will develop critical thinking and problem-solving skills, and become comfortable with basic experimental techniques. You will demonstrate the ability to make connections between concepts across environmental science.

**METHODS OF EVALUATION:** Weekly quizzes, book reports, and laboratory assignments. See below for explanations.

**CLASS STRUCTURE:** This class will be a little unusual, and will continue an experiment I started last semester (Fall 2015). One day each week will be devoted to the text chapter, the other day each week to lab. **There will be no PowerPoint lectures, or indeed any kind of lecture. Instead we will take turns reading each chapter aloud in class. I will elaborate and explain concepts as needed using videos, props, other readings, etc.**

You will then be assigned online homework, due ½ hour before the start of the next class. This questions in this homework repeat until you get them right and are untimed, so everyone should get 100% on this. They are labelled Post-Test under Interactive Quizzes, but they are homework and not quizzes or tests. To study for the real quiz the next class day, you should also study the flashcards, read the chapter summaries, reread the chapter, and practice the sample quiz provided online.

At the beginning of the next class (and before lab) you will be given a weekly chapter quiz. This quiz will not be T/F or multiple choice, but rather it will be write-in the correct answer. There will be 20 questions in each chapter quiz.

You also have two extra books, from which each of you will be assigned one chapter to read and write a report. You will also prepare and give a 5-minute PowerPoint presentation on each of the two chapters.

## **YOUR GRADE WILL BE BASED UPON THE FOLLOWING:**

- 14 chapter quizzes, 100 points each, 54% of your grade.
- 14 CourseSmart online homework assignments (Post-Tests). You must do these online by ½ hour before the start of class, or you will not get any credit. 30 points each, 16% of your grade.

- 4-6 labs. Each must be filled out & handed in the next class day after the lab is finished. 50-75 points each, about 11% of your grade.
- 2 book chapter reports and PowerPoint presentations. 100 points each, 8% of your grade.
- Attendance. 10 point/class mandatory, not extra credit. You must be no more than 10 minutes late and stay for the whole class to get credit. 11% of your grade.

## **MAKEUPS:**

### **I WILL DROP ALL OF THE FOLLOWING FROM YOUR GRADE CALCULATIONS:**

- 1 LOWEST QUIZ
- 1 LOWEST LAB
- 4 DAYS OF MISSING ATTENDANCE POINTS

**AS A RESULT, THERE WILL BE NO MAKEUPS OF ANY HOMEWORK, LABS, QUIZZES, OR ATTENDANCE FOR ANY REASON.**

## **WITHDRAW POLICY:**

It is the student's responsibility to officially withdraw from class before the deadline. Please check with Registrar's Office for dates. The withdrawal deadline for SPRING 2016 is Monday, APRIL 18. A student who desires to withdraw either from the course or from the college must contact the Registrar's Office. Students who find that they cannot maintain regular attendance or cannot complete one or more courses in which they are enrolled must withdraw in person or by writing (not by telephone) to the Registrar's Office.

## **INADEQUATE PROGRESS:**

Students who have a total current grade of < 30% at mid-term will be mathematically unable to finish the course with a "c" or better. Such students will be given an administrative withdrawal (ADW). This is for your benefit: in such a case you should reallocate your efforts to other courses. Also, there is no reason to have a d or f on your transcript unnecessarily.

## **EXTRA CREDIT:**

There will be 1 extra credit opportunity, a restoration workday on Saturday April 9 at the CCC Wetland ([www.cccwetland.org](http://www.cccwetland.org)) from 9-noon. More details TBA.

## **CLASSROOM CONDUCT:**

1. For your safety, food and drink items (except water bottles) are NOT allowed in the classroom/lab.
2. Please be on time for class so that you do not miss important information.

3. Please SILENCE all cell phones before entering the classroom and please do not surf or text.

4. You may not use headphones during class.

5. You may not use your laptop during class, other than for the purpose of taking notes.

6. Respect your instructors and fellow students during class.

7. Adhere to all laboratory safety rules.

8. Read the relevant lab exercise chapters prior to coming to class to be prepared for the lab and to be aware of potential safety hazards.

9. Use provided gloves, aprons, and/or goggles when advised to do so. Wash your hands prior to leaving the lab.

**SPECIAL SERVICES:**

Students with documented special needs are encouraged to seek these services in Room 1401 or call (773) 291-6345.

**TIPS FOR SUCCESS:**

1. Arrive at class on time and every day, so you don't miss anything!

2. Ask questions – there are no silly questions, so don't hesitate to ask.

3. Keep up with the reading and homework. If you can, read ahead. Do things in manageable portions – this will give you time to absorb the information and build your confidence.

4. Go to tutoring with Mr. Buckner! We are lucky enough to have a tutor of his caliber.

5. Also, please consider forming study groups. These should have 2-4 people and meet at least once weekly for at least 2 hours.

6. Use all of the self-study materials online.

7. See me during office hours for additional help. If you can't make office hours, talk to me and we'll schedule something.

**GRADING SCALE:**

90-100% = A

80-89% = B

70-79% = C

60-69% = D

< 60% = F

## CourseMate Student User Guide



Welcome to CourseMate's Student User Guide! This guide will help you get started with CourseMate by providing in depth, step-by-step instructions, created specifically for the student user.

### Contents

<b>Benefits of Using CourseMate.....</b>	<b>2</b>
<b>Where to Buy.....</b>	<b>2</b>
<b>First Time Login .....</b>	<b>2</b>
<b>Returning Users.....</b>	<b>2</b>
<b>Adding an Access Code and Course Key .....</b>	<b>3</b>
<b>Walkthrough .....</b>	<b>4</b>

## Benefits of Using CourseMate

CourseMate brings course concepts to life with interactive learning, study, and exam preparation tools that support the printed textbook. Learning tools include quizzes, flashcards, videos, and more. You can take notes, highlight, search and interact with embedded media specific to their book.

## Where to Buy

CengageBrain.com : Choose the format and price options that work best for you. CengageBrain.com offers Textbook and Bundle Rentals, eTextbooks, individual eChapters and even free study tools.

→ Go to [www.CengageBrain.com](http://www.CengageBrain.com) and search ISBN number provided by your professor.

**CENGAGE** <sup>com</sup>**brain**  
Buy or rent the way you want and save

## First Time Login

To get started, navigate to: [www.cengagebrain.com](http://www.cengagebrain.com). If this is your first time using a Cengage Learning Product, you will need to create a new account.

## Register as a New User

- Select “Sign Up” in the top right corner of your window.
- Fill in all fields that have a **red asterisk (\*)** and click “Sign Up”.
- Once completed, you can then click on the “Homepage” link to be taken directly into your new CengageBrain account.

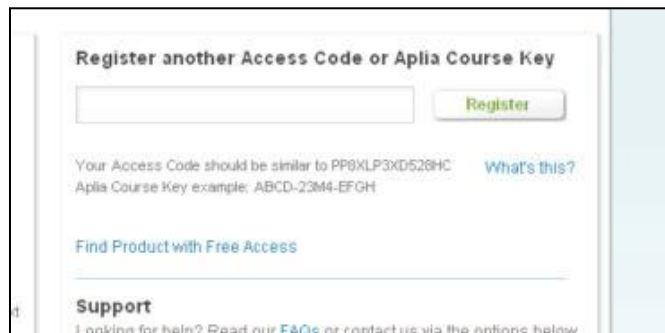
## Returning Users

If you are a returning user, open your browser and go to <http://cengagebrain.com> and click on “Login”. Your username will be the email address you used to create your CengageBrain account.) *If you forget your password at any time, use the Password link to retrieve your password.*

The screenshot shows the CengageBrain.com website interface. On the left is the CengageBrain logo. In the center is a search bar with the text 'Search for Books or Materials' and a 'Find' button. To the right of the search bar are links for 'Today's Deals' and 'Recommendations'. Further right are links for 'Log In', 'Sign Up', and 'My Cart(0)'. Below the 'Log In' link is a login form with fields for 'username' and 'Password?' (with a masked password '\*\*\*\*\*'). There is a 'Remember Me' checkbox and a 'log in' button.

## Adding an Access Code and Course Key

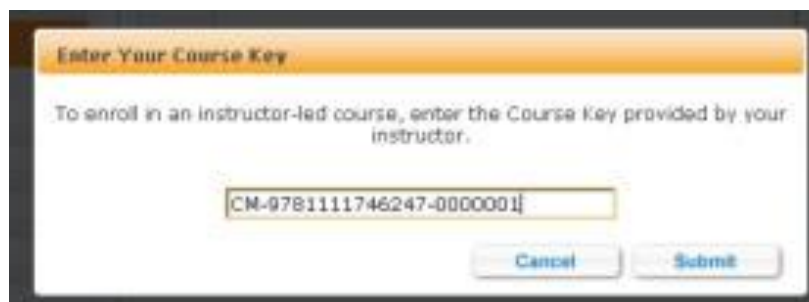
To add your Access Code, enter the Access Code into the Registration field. Make sure to enter the code exactly as you see it. This is found on the card included in your bundle.



The screenshot shows a web form titled "Register another Access Code or Aplia Course Key". It features a text input field and a green "Register" button. Below the input field, there is instructional text: "Your Access Code should be similar to PP8XLP3XD526HC" and "Aplia Course Key example: ABCD-23M4-EFGH", followed by a blue link "What's this?". A blue link "Find Product with Free Access" is also present. At the bottom, there is a "Support" section with the text "Looking for help? Read our FAQs or contact us via the options below."

When your screen refreshes, you will see under “**My Courses and Materials**” you Cengage Course and an **Open** button. Click on the **Open** button next to your course title. The first time you take this step you will need to enter your Course Key.

➔ You will add a Course Key that will be **given to you by your instructor** so that you can join his or her class. You only need to enter your Course Key one time. CM-9781285861074-0000032



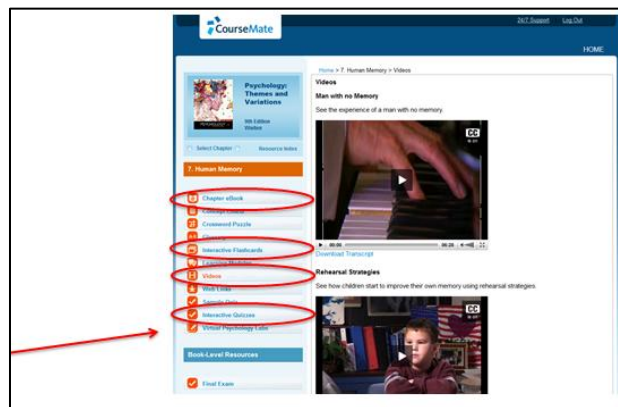
The screenshot shows a dialog box titled "Enter Your Course Key". It contains the text "To enroll in an instructor-led course, enter the Course Key provided by your instructor." Below this text is a text input field containing the course key "CM-978111746247-0000001". At the bottom right of the dialog box are two buttons: "Cancel" and "Submit".

## Walkthrough

The resources available with CourseMate vary, based on the needs of the discipline and your book's features and pedagogy. All CourseMate products have an eBook, interactive quizzing, and a presentation resource. Many have flashcards, a glossary, and videos. Let's walkthrough some of the resources that may be available with your CourseMate.

### Access your CourseMate Study and Test Prep Resources!

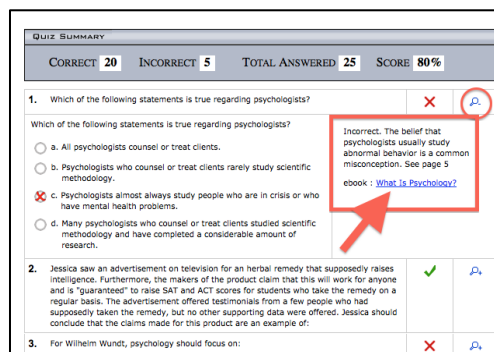
- A full version of the interactive eBook is available, including search, highlights, and note-taking
- Flashcards help you understand key terms and definitions
- Videos and presentations bring important concepts to life
- Interactive quizzes help you prepare for tests and check your understanding, with immediate feedback
- *And more!*



### Interactive Quizzing

Quizzes provide students with you feedback. For incorrect answers, students can click on the magnifying glass icon to see the correct response.

In addition to seeing the correct answer and a brief explanation, students can link directly to the section of the eBook where the topic is discussed.

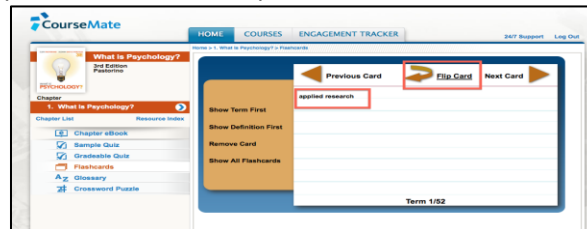




# CENGAGE LEARNING DIGITAL COURSE SUPPORT

## Flashcards

Flashcards help students review important terms. The flip side of the card has definitions of the terms.



## Glossary

You have easy access to a glossary of terms introduced in your textbook.



## Videos

Videos engage students and allow them to connect course concepts with real-world applications.



## Product Support

### Questions with your CengageBrain account?

- Check the FAQs in the Support area of your CengageBrain home.
- Write to [cengagebrain.support@cengage.com](mailto:cengagebrain.support@cengage.com)
- Call 866.994.2427 Mon. through Fri. from 8 AM to 6 PM EST

### Questions regarding CourseMate?

- Go to [www.cengage.com/support](http://www.cengage.com/support) for 24/7 live chat!
- Call 800.354.9706 Mon. through Thurs. 8:30 AM to 9 PM EST and Fri. 8:30 AM to 6 PM EST

## CLASS & ASSIGNMENT SCHEDULE, INCLUDING GRADE POINTS\*

CLASS#	DATE	PTS	READ	LAB	HOMEWORK DUE	PTS	QUIZ	PTS
	1/18		NO	CLASS	MLK BIRTHDAY			
1	1/20	10	1		Read syllabus, start text reading			
2	1/25	10	1	Sci Meth				
3	1/27	10		Sci Meth	Post-Test Ch. 1	30	Ch. 1	100
4	2/1	10	2		Sci Meth Lab	50		
5	2/3	10			Post-Test Ch. 2	30	Ch. 2	100
6	2/8	10	3					
	2/10		NO	CLASS	DR. PERGAMS AT CONFERENCE			
	2/15		NO	CLASS	PRESIDENTS DAY			
7	2/17	10		Evol	Post-Test Ch. 3	30	Ch. 3	100
8	2/22	10	4					
9	2/24	10		Evol	Post-Test Ch. 4	30	Ch. 4	100
10	2/29	10	5					
11	3/2	10		Evol	Post-Test Ch. 5	30	Ch. 5	100
12	3/7	10	6		Evol Lab	75		
13	3/9	10		For Ent	Post-Test Ch. 6	30	Ch. 6	100
14	3/14	10	7					
15	3/16	10		For Ent	Post-Test Ch. 7	30	Ch. 7	100
	3/21		NO	CLASS	SPRING BREAK			
	3/23		NO	CLASS	SPRING BREAK			
16	3/28	10	8		For Ent Lab	50		
17	3/30	10			Post-Test Ch. 8, Water Paper & Presentation	30, 100	Ch. 8	100
18	4/4	10	9					
19	4/6	10		Water	Post-Test Ch. 9	30	Ch. 9	100
	4/9			XC	WETLAND WORKDAY	50XC		
20	4/11	10	10					
21	4/13	10		Water	Post-Test Ch. 10	30	Ch. 10	100
22	4/18	10	11		Water Lab	50		
23	4/20	10		LD50	Post-Test Ch. 11	30	Ch. 11	100
24	4/25	10	12					
25	4/27	10		LD50	Post-Test Ch. 12, Climate Change Paper & Presentation	30, 100	Ch. 12	100
26	5/2	10	13		LD50 Lab	50		
27	5/4	10		TBA	Post-Test Ch. 13	30	Ch. 13	100
28	5/9	10	14					
29	5/11	10			Post-Test Ch. 14, Pot Luck Party		Ch. 14	100
TOTAL PTS		290				895, 50XC		1400
GRAND TOT PTS		2585, 50XC						

\*Note: This is a tentative schedule and is subject to change at the discretion of Dr. Pergams. The number of labs especially may be reduced.

**COURSE SYLLABUS AGREEMENT  
BIOLOGY 119 FJ/FJX  
SPRING 2016**

I, \_\_\_\_\_(your name printed clearly), have read and fully understand the course syllabus and lab safety guidelines for Biology 119 presented to me on \_\_\_\_\_(date) by my instructor. As a student in this course I agree to comply with these guidelines.

\_\_\_\_\_(your signature).

**STUDENT INFORMATION:**

Biology 119 FJ/FJX

Student ID number 00\_\_\_\_\_

Email address\_\_\_\_\_

Phone #\_\_\_\_\_

Major or Program of Study\_\_\_\_\_

Professional/Career Goals\_\_\_\_\_

Past Biology Courses Taken (include both high school and college level courses):

\_\_\_\_\_

What is something (biology or health-related) that you've heard about in the news or elsewhere and you would like to learn more about in this class?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PLEASE FILL OUT AND RETURN TO DR. PERGAMS. THANK YOU!