

Syllabus

Foundations of Human Physiology Lab

1171-FIU01-PCB-2099L-SECRVC-12073

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General Information

Professor Information



Instructor:

Maureen Walter, Senior Instructor

Phone:

305.919.5898

(If I do not answer, do not leave a voicemail... message or email me instead)

Office:

Academic 1, Rm. 380 (BBC)

Office Hours:

By Appointment

(Can be phone meeting)

E-mail:

Please use Blackboard course messages first, or walterm@fiu.edu

Course Description And Purpose

This course assumes very little or no prior scientific knowledge of biology, and thus serves for pre-Nursing, pre-Pharmacy majors and non-biology major students who wish to satisfy the lab portion of PCB 2099, completing the Life Science requirement within the FIU Core Curriculum Natural Science category. This course illustrates the processes, concepts, and principles discussed in PCB2099 Lecture through virtual investigative activities.

This course will expand the student's knowledge of how the physiological processes in the human body work over successive levels of organization to maintain the body's homeostasis. Lab assignments may include (but are not limited to) such work as virtual lab experiments, pre-lab and post-lab quizzes, activity questions, and lab reports.

Natural Sciences

Our technologically dependent world requires an understanding of the processes that led us here. Learning the basic concepts and ideas of scientific fields provides contact with not just those fields but with how science is done. In these courses students study the scientific method through examination of the foundational theories of modern scientific thought. Students apply scientific principles and theories to problem solving, evaluate scientific statements, and incorporate new information within the context of what is already known.

Emphasizing the essential connection between theory and experiment, the virtual laboratory experience provides the context for testing scientific theories.

Students will be able to describe the scientific method through examination of the foundational theories of modern scientific thought.

Course Objectives

Students will be able to:

- Identify Scientific Method
- Recognize some of the techniques and thought processes that a physiologist uses in gathering information (scientific method, observation, recording data and making drawings, using computers, etc.)
- Describe the complexity of living processes and how life, particularly human life, works on chemical, cellular, and organism levels.

Teaching Methodology

Includes, but not limited to:

- Active participation in virtual experiments including recording & interpreting results and submitting Lab Report.
- Guided inquiry through illustrated text, animations, and virtual exercises assessed by quizzes and exams.

This is a fully online course in which all of the instructional materials and activities are delivered through Blackboard, and/or other internet-based media.

Important Information

Policies

Please review the [FIU's Policies](#) webpage. The policies webpage contains essential information regarding guidelines relevant to all courses at FIU, as well as additional information about acceptable netiquette for online courses.

No material will be reopened except for an emergency that has impacted the FIU community. Any personal issues that impact your ability to complete work **MUST**:

- Prevent you from accessing the material (the last full 3 weeks of the ~6 weeks for quizzes and assignments and the complete 7 days for exams). The Instructor **MUST** be contacted (at least 2 weeks for Quizzes and 4 days for Exams) before the closing of the material. These circumstances must be supported with original documentation such as the official hospital records showing day of admittance and release or police records showing day or arrest and release.
- If you choose to wait till the last few days (or hours) to do the work and something prevents you from completing the work (including an emergency), the material **WILL NOT** be reopened. By making the choice to wait, you are also accepting the possibility that (Murphy's Law) "If anything can go wrong, it will" and always at the worst possible time.

Technical Requirements & Skills

One of the greatest barriers to taking an online course is a lack of basic computer literacy. By computer literacy we mean being able to manage and organize computer files efficiently, and learning to use your computer's operating system and software quickly and easily. Keep in mind that this is not a computer literacy course; but students enrolled in online courses are expected to have moderate proficiency using a computer. Please go to the "[What's Required](#)" webpage to find out more information on this subject.

This course utilizes the following tools:

1. Virtual Lab

Please visit our [Technical Requirements](#) webpage for additional information.

Accessibility And Accommodation

Please visit our [ADA Compliance](#) webpage for information about accessibility involving the tools used in this course.

Please visit [Blackboard's Commitment Accessibility](#) webpage for more information.

For additional assistance please contact FIU's [Disability Resource Center](#).

Course Prerequisites

There are no prerequisites for this course, however for this course (PCB2099L) to fulfill the UCC requirement, students must also complete the Lecture (PCB2099) component

worth 3 credits either before, during, or after completing this lab. These courses may be 100% online or in the traditional face-to-face format.

- Review the [Course Catalog](#) webpage for prerequisites information.

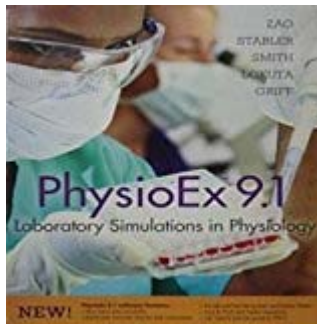
Academic Misconduct Statement

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

Academic Misconduct includes: **Cheating** – The unauthorized use of books, notes, aids, electronic sources; or assistance from another person with respect to examinations, course assignments, field service reports, class recitations; or the unauthorized possession of examination papers or course materials, whether originally authorized or not. **Plagiarism** – The use and appropriation of another’s work without any indication of the source and the representation of such work as the student’s own. Any student who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, is responsible for plagiarism.

Learn more about the [academic integrity policies and procedures](#) as well as [student resources](#) that can help you prepare for a successful semester.

Textbook



PhysioEx 9.1: Laboratory Simulations in Physiology with 9.1 Update
Peter Zao, Timothy N. Stabler, Lori A. Smith, Andrew Lokuta, Edwin Griff
Pearson; 1st Edition; 2013
ISBN-10: 0321929640
ISBN-13: 9780321929648
You may purchase your textbook online at the [FIU Bookstore](#).

Expectations Of This Course

Expectations for performance in an online course are the same for a traditional course. In fact, online courses require a degree of self-motivation, self-discipline, and technology skills which can make these courses more demanding for some students.

Students are expected to:

- **Review the how to get started information** located in the course content
- **Introduce yourself to the class** during the first week by posting a self-introduction in the appropriate discussion forum
- **Take the practice quiz** to ensure that your computer is compatible with Blackboard
- **Take Student/Instructor Quiz as many times as necessary to earn a perfect score. This Quiz acts to certify your knowledge of the course rules and deadlines and your acceptance of said rules. Students will not have access to Exam 1 until the Quiz is taken and a perfect score earned.**
- **Interact** online with instructor/s and peers and keep up with all material.
- **Review** and follow the course calendar
- **Submit assignments** by the corresponding deadline

The Instructor will:

- Log in to the course at least 3 times per week
- Respond to emails/messages within 3 days.
- Grade assignments in a timely manner so that students can see their earned score and decide, upon reading the Instructor's feedback, if they wish to correct any issues and resubmit. Assignments submitted during the Late Submission 3 day period may not be scored in time for students to be able to resubmit the corrected material so plan accordingly.

Course Detail

Course Communication

Communication in this course will take place via messages and announcements. **You may also email me at my regular FIU email, walterm@fiu.edu.** But be sure to put your name and course number in the subject line indicating you are an online student.

The course message feature is a private, internal Blackboard only communication system. Users must log on to the blackboard system to send/receive/read messages. There are no notifications in Blackboard to inform users when a new message has been received; therefore, it is recommended that students check their messages routinely to ensure up-to-date communication.

The announcements are messages sent to your registered email account. This is typically your FIU account email. They are also posted on your My Courses page. Be sure to pay attention to these announcements. I will be sending out an announcement the first day of class. If you do not receive it, contact Technology Support (through link on left-hand menu) and ask them to confirm your email.

The announcement messages are very helpful because I use this tool to inform the whole class about course issues such as material closing or any technology problems students have encountered

Many messages are received throughout the semester. For some, I respond individually, but to others the response is a message to the whole class because it is an issue that everyone needs to know about. And for some messages, I do not respond at all. These are the messages that request for material that has closed to be reopened. Since the course guidelines are very clear on this matter, and since all students will have taken the Student-Instructor quiz covering these guidelines, there is no reason for a message telling the student what they already know: the material will not be reopened.

I typically log on to the Course site multiple times a week, so you can expect to receive an answer to your message within ~72 hours. If it is an emergency, you can contact me through my regular FIU email.

Visit our [Writing Resources](#) webpage for more information on professional writing and technical communication skills.

Discussion Forums

Keep in mind that your discussion forum postings will likely be seen by other members of the course. Care should be taken when determining what to post.

Assessments

In order to mitigate any issues with your computer and online assessments, it is very important that you take the “Practice Quiz” from each computer you will be using to take your graded quizzes and exams. It is your responsibility to make sure your computer meets the minimum [hardware requirements](#).

Assessments in this course are not compatible with mobile devices and should not be taken through a mobile phone or tablet. If you need further assistance please contact [FIU Online Support Services](#).

Quiz and Exam Expectations:

- **Student/Instructor Quiz** – Contract Quiz to confirm the students’ understanding of the Course rules and agreement to follow those same rules. While the score is **not** part of the grade, a perfect score must be achieved before the students have access to Exam 1. Students may take this quiz as many times as necessary to earn a perfect score.
- 10 Blackboard Quizzes and 2 Exams (links found under Assessments)
- Labs 1-5 Quizzes open January 13 at 9am, close February 24 at 9am.
- Exam 1 opens February 24 at 9am and closes March 3 at 9am.
- Labs 6-10 Quizzes open March 3 at 9am, close April 14 at 9am.
- Exam 2 opens April 14 at 9am and closes April 21 at 9am
- Quiz duration: 30 minutes; Exam duration: 1 hour

- Students will see Quiz and Exam scores and feedback immediately after submission.
- Students may take each Quiz and Exam up to 2 times. If taken 2 times, the student will receive the **average** of the two scores.
- **The Instructor has no specific control over what is seen in the student's "My Grades". It shows students what scores have been earned on completed work. It does NOT show missing work. So it is each student's responsibility to keep a record of assigned work (as seen in the Syllabus) and use that list to check the My Grades information, thereby confirming that the student has completed all of the necessary work. It is NOT Blackboard's responsibility to inform students that they have not completed specific quizzes or exams. Any figures shown on My Grades, such as 158 (earned points)/ 340 (total points) will NOT be used to calculate your grades since it does not reflect the weights seen below or missing work. I would suggest that upon completing a block of work such as all the quizzes or the exam, confirm that all the work has been done by comparing the earned scores in your MyGrades and the syllabus and then take a screenshot of the MyGrades page and save it. That way you will have supporting information if an issue arises about missing work.**

Assignments

Assignment Expectations:

- Lab Assignments are found within the PhysioEx 9.1 program.
- Lab Assignments have a regular submission period and a late submission period. Assignments for Labs 1-5 close at 9am on **February 24** with a late submission period from 9am on February 24 till 9am on February 27. Assignments for Labs 6-10 close at 9am on April 14 with a late submission period from 9am on April 14 till 9am on April 17. Submissions during the late period may have up to 30% deducted due to the late submission.
- **Pay attention in the Syllabus and Course Content information to which PhysioEx Exercise is attached to each Lab. For example, Lab 1 is PhysioEx Exercise 1, but Lab 2 is PhysioEx Exercise 4.**
- Each Lab Assignments may be submitted up to 3 times and will receive the best of the 3 scores.
- All work is done individually. No group submissions.
- Within the Schedule table, students will see which PhysioEx Exercise is assigned to each Lab and how many Activities are found with that Lab's Exercise. Quizzes found within the PhysioEx work are to be completed and are **NOT** the separate Blackboard Quizzes whose links are found through the Assessments link.
- Assignments must be generated as pdfs by the PhysioEx program and include all Activities with respective PhysioEx quizzes. Hand written work using the paper Lab book and submitted as a scanned pdf will NOT be accepted.
- Submitted Lab Assignments will be scored in a timely manner, with a target of returning them within 72 hours of submission. Any Assignments with a late submission may not be returned in time for students to resubmit corrected work.

Adobe Connect Pro Meeting

Grading

Course Requirements		Number of Items	Points for Each	Total Points Available	Weight
Quizzes		10	100	1000	25%
Exams		2	100	200	40%
Assignments		10	10	100	35%
Total		22			100%

Letter	Range (%)	Letter	Range (%)	Letter	Range (%)
A	Above 93	B-	80 - 82	D	60 - 69
A-	90 - 92	C+	77 - 79	F	< 60
B+	87 - 89	C	70 - 76		
B	83 - 86				

Course Calendar

Weekly Schedule

This course is designed in a format that divides the 10 Labs in half, with Labs 1-5 open during the first half of the semester and then Labs 6-10 open during the second half of the semester. This results in a work load of at least one Lab per week.

Each Lab will include specifically assigned activities from the PhysioEx 9.1 program and a post-lab Blackboard quiz found through the Assessments link in the left-hand menu.

Exam 1 is comparable to a Midterm Exam covering the material in Labs 1-5 and Exam 2 will cover the material in Labs 6-10. These Exams are found through the Assessments link in the left-hand menu.

If you have a smart-phone, I suggest you now place in your Calendar app the closing days and time for the quizzes, lab assignments, and Exams and also include some alerts to remind you of these closings.

Please note that while there is a "late submission" period for the Lab assignments (with a potential deduction of up to 30% of points for a late submission), there is NO corresponding late submission option for the quizzes or Exams. They MUST be submitted by the designated days and times seen below (while the days may change, **the time for submission closing is ALWAYS 9AM**).

Date	Tasks
January 9	Welcome to Foundations of Human Physiology Lab - Familiarize yourself with the Blackboard Learn structure. Read Syllabus and take

Date**Tasks**

Instructor/Student Contract Quiz (link on top of Course Material page). You may take the Instructor/Student Quiz as many times as necessary to earn a perfect score. While this Quiz will not be part of your grade, you will not be permitted to take Exam 1 until you have earned the perfect score on this quiz.

Be aware that the Lab number does not always correspond to the PhysioEx Exercise number. For example, Lab 1 is Exercise 1 but Lab 2 is Exercise 4. Be sure to submit the correct Exercises with each Lab assignment and include all included activities.

Acquire the PhysioEx 9.1 Lab program.

Lab 1 - Exercise 1: Cell Transport Mechanisms and Permeability includes:

- 5 Activities with accompanying Review Sheet questions.

- A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: February 24, **9AM**; late submission by **9AM**, February 27

- A Blackboard quiz which will cover material. Closes **9AM** February 24

Lab 2 - Exercise 4: Endocrine System Physiology

includes:

- 4 Activities with accompanying Review Sheet questions.

- A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: February 24, **9AM**; late submission by **9AM**, February 27

- A Blackboard quiz which will cover material. Closes **9AM** February 24

1st Period

January 13; **open and close 09:00 (9AM)**

Lab 3 - Exercise 3: Neurophysiology of Nerve Impulses

includes:

- 9 Activities with accompanying Review Sheet questions.

- A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: February 24, **9AM**; late submission by **9AM**, February 27

- A Blackboard quiz which will cover material. Closes **9AM** February 24

Lab 4 - Exercise 2: Skeletal Muscle Physiology

includes:

- 7 Activities with accompanying Review Sheet questions.

- A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: February 24, **9AM**; late submission by **9AM**, February 27

- A Blackboard quiz which will cover material. Closes **9AM** February 24

Lab 5 - Exercise 7: Respiratory System Mechanics

includes:

- 3 Activities with accompanying Review Sheet.

- A Lab Report will be submitted as saved pdf through menu link to

Date	Tasks
EXAM 1:	Assignment Dropbox. on-time submission: February 24, 9AM; late submission by 9AM, February 27 - A Blackboard quiz which will cover material. Closes 9AM February 24
February 24 - March 3	EXAM 1 Opens 0900 (9AM) February 24; Closes 0900 (9AM), March 3
	Lab 6 - Exercise 5: Cardiovascular Dynamics
	includes:
	<ul style="list-style-type: none"> - 7 Activities with accompanying Review Sheet questions. - A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: 9AM, April 14; late submission by 9AM, April 17. - A Blackboard quiz covering material provided in this Lab. closes 9AM April 14
	Lab 7 - Exercise 6: Cardiovascular Physiology includes:
	<ul style="list-style-type: none"> - 5 Activities with accompanying Review Sheet questions. - A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: 9AM, April 14; late submission by 9AM, April 17. - A Blackboard quiz covering material provided in this Lab. closes 9AM April 14
2nd Period:	Lab 8 - Exercise 9: Renal System Physiology includes:
Opens March 3 at 09:00 (9AM)	<ul style="list-style-type: none"> - 6 Activities with accompanying Review Sheet questions. - A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: 9AM, April 14; late submission by 9AM, April 17. - A Blackboard quiz covering material provided in this Lab. closes 9AM April 14
	Lab 9 - Exercise 10: Acid-Base Balance includes:
	<ul style="list-style-type: none"> - 4 Activities with accompanying Review Sheet questions. - A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: 9AM, April 14; late submission by 9AM, April 17. - A Blackboard quiz covering material provided in this Lab. closes 9AM April 14
	Lab 10 - Exercise 8: Chemical and Physical Processes of Digestion
	includes:
	<ul style="list-style-type: none"> - 4 Activities with accompanying Review Sheet questions. - A Lab Report will be submitted as saved pdf through menu link to Assignment Dropbox. on-time submission: 9AM, April 14; late submission by 9AM, April 17. - A Blackboard quiz covering material provided in this Lab. closes closes

Date**Tasks**

9AM April 14

EXAM 2:

April 14 - 21

EXAM 2 opens 0900 (9AM) April 14; closes 0900 (9AM) April 21