



General Biology II - Virtual
INDIAN RIVER STATE COLLEGE COURSE SYLLABUS
COURSE TITLE: General Biology II COURSE NUMBER: BSC2011
Summer A 2022 – online

My name is Dr. Capers and I will be your instructor for the semester. I have a passion for science and am a full science nerd ☺ I earned my Bachelor Degree in Biology from Central Michigan University (I'm originally from Michigan). I earned my PhD in Biology (emphasis marine studies and immunology) from the University of Southern Mississippi. My husband and I moved from Mississippi to Florida in 2006 and we now have 2 wonderful children, Ella and Jameson. I have been an instructor at IRSC since 2008. I truly hope you enjoy this class. I am here to help you in any way. However, I will be honest and tell you that it will take a lot of work on your part – this class has a lot of information and taking it online will require a lot of time. But it can be done and students are successful when they put in the time and the work ☺



WEEK OF:	TENTATIVE Schedule - Subject to change!!!	Reading
May 4 th	Phylogeny, Viruses	Ch. 20, 21
May 9 th	Prokaryotes, Protists, Exam 1 (Unit 1, May 12th-14th) Seedless Plants, Seed Plants	Ch. 22, 23 Ch. 25, 26, 32
May 16 th	Fungi Exam 2 Midterm (Units 1 and 2, proctored, May 19th - 21st) Animal Diversity	Ch. 24 Ch. 27
May 23 rd	Invertebrates, Vertebrates, Animal Body Plan, Nervous System	Ch. 28, 29, 33, 35
May 30 th	Endocrine System, Digestive System, Respiratory System Exam 3 (Units 3 and 4, June 2nd - 4th) Circulatory System	Ch. 37, 34, 39 Ch. 40
June 6 th	Urinary System, Immune System, Reproduction	Ch. 41, 42, 43
June 14 th	Final Exam (Units 3, 4 and 5, June 12th-14th)	

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ACADEMIC HONESTY STATEMENT

As we all know, the Covid 19 pandemic brought about more online courses and students are still choosing to take online courses. To maintain education rigor and integrity, it is important for you as a student to maintain academic honesty. It is important for you to do the work for the course (not someone else) and for you to study beforehand for an exam, not Google answers. Why? - Because you are taking this course for a reason - to learn! You need the knowledge to succeed in other courses, to take certifying exams, etc. Knowledge is power! A quality education can change your life and the lives of those around you. You must approach online learning with the same rigor and work as face-to-face classes. Otherwise, it will hurt you in the end. So please keep the following in mind:

- YOU must be the one to complete all assignments and exams (no friends, no family member, no paying anyone). All assignments should be your work.
- You should take all exams as if an instructor is standing in front of you.

Cheating, including plagiarism, of ANY kind will not be tolerated by this department. Any student caught cheating will receive an immediate F on the assignment and possibly in the course (no withdrawal allowed).

It is your responsibility to maintain a secure and honest environment while you are taking an exam. Your instructor will randomly be checking Honorlock recordings, even if your recording is not flagged for possible violations (your instructor has until final grades to observe Honorlock recordings and change the grade if necessary). If I observe that you did not maintain a secure environment, it could result in deducted points (possibly a zero on the exam). Examples of NOT maintaining a secure and honest test environment include but are not limited to:

- Taking the exam anywhere other than a cleared off table/desk (i.e. do not take the exam in your bed).
- Not doing a proper room scan.
- Having your phone near you for any reason.
- Not showing your entire face during the exam (I must be able to see from your shoulder to your forehead).
- Reading the questions out loud.
- Constantly looking to the right, left, or down (your eyes should remain looking at the questions majority of the time).
- Taking the exam in poor lighting (I must be able to see your face and see your eyes).
- If you are wearing ear buds or head phones.

MASK POLICY STATEMENT

In order to maintain a safe environment for students, faculty, staff and the community during the Covid-19 pandemic, we ask that you abide by CDC guidelines. When you are in lecture or lab, wear a mask and maintain social distancing as much as possible. It is our duty to follow the science and do our part for each other. We have the tools to get this pandemic under control (vaccines and masks)!

COURSE DESCRIPTION

This is a continuation of BSC 2010. Topics include an introduction to bacteria, viruses, fungi, and Protista and a survey of the plant and animal kingdoms.

The corequisite for this class is BSC 2011L.

TEXTBOOK

OpenStax Biology - This is an open resource book that you do not have to pay for, you can download a free copy on the website.

You can purchase a printed version on Amazon if you choose. Google "OpenStax Biology" and it will take you to the website where you can download your copy.

ONLINE INTERACTION AND ATTENDANCE

Students should expect to have regular and substantive interactions that enhances their learning throughout the online experience in accordance with the U.S. Department of Education. Such assignments are referred to as RSI assignments. Such activities for this course include:

- watching recorded lectures.
- researching answers and filling out worksheets and making flashcards.
- taking regularly scheduled exams.
- talking with Dr. Capers during scheduled virtual office hours.

Students are expected to log into Blackboard regularly to check assignments and to see if there are any announcements. I might have to change some dates or make some adjustments so you have to log in to see updated information. It is a student's responsibility to set aside time each week to watch the lectures, read the material, and work on the worksheets. Remember, in a normal face-to-face class, a student would be in the classroom for at least 3 hours a week. On top of that, there should be up to 9 hours per week of a student's own time working on material for the course.

GRADES

Office Hours (15 points) - You will have to visit me during office hours at least once during the semester (I will have virtual and face-to-face hours). You can't wait until the last week of the semester.

Exams (600 points) - There will be 4 Exams.

- Exam 1 - 100pts, covers Unit 1, 50 multiple choice questions, taken on Blackboard unproctored
- Exam 2 Midterm - 200pts, covers Units 1 and 2, 100 multiple choice questions, proctored (using HonorLock)
- Exam 3 - 100pts, covers Units 3 and 4, 50 multiple choice questions, taken on Blackboard unproctored
- Final - 200pts, covers Units 1-5, 100 multiple choice questions, proctored (using Honorlock)

Homework (125 points) - Every chapter will have a worksheet to complete. Print the worksheet and hand write the answers. Pay attention to the due dates in Blackboard. You will upload the worksheets in a Dropbox in Blackboard. Late work will be accepted at an automatic reduction in points.

It is the responsibility each student to ensure the validity of any assignment submitted via Blackboard file upload. After submission, a file may be previewed in Blackboard; students should thoroughly verify each submission. A file may be resubmitted (before the due date) if any error is found. After the due date, any file that is not readable by the instructor (including, but not limited to, pending submissions, incomplete submissions, blank files, corrupt files, wrong file types, etc.) will be awarded a grade of 0. It's best to stay with safe formats - PDF, JPEG, PowerPoint, etc.

	Earned Points	Possible Points
Exam 1		100
Exam 2 Midterm		200
Exam 3		100
Exam 4 Final Comprehensive		200
Worksheets		100
Office Hours		15
	Your total:	Total: 740
		Your total/740 = your average

The semester average is based on the percentage of total percentage points:

89.5 -100% = A; 79.5- 89.4% = B; 69.5-79.4% = C; 59.5-69.4% = D; below 59.5%= F

Grades will be posted in Blackboard. However, it is up to the student to keep up with his/her grades that were given for each exam/assignment. Mistakes or miscalculations can happen in Blackboard and might have to be modified during the semester due to Blackboard error or user error.

MORE INFORMATION ON EXAMS

What will the exams look like? Your exams will be on Blackboard. Exams 1 and 3 are 100 points each, ~50 questions each; Exam 2 Midterm and Exam 4 Final are 100 questions and 200 points.

Can you use notes and your book during the exams? NO! you must study for these and take them as if they are proctored.

Where will you take your exams? Due to Covid-19 and the fact that Testing Centers might still be closed, Exams 1-4 will be taken at home on your computer on Blackboard. It is important for you to maintain academic honesty during these exams. The Midterm and the Final Comprehensive exam will be proctored using an online proctoring system, Honorlock (you will need a quiet place, a computer with working microphone and camera, and a government

issued photo ID).

When do you take the exams? Exam dates are here on this syllabus and on Blackboard. It is important to pay attention to the exam dates! Don't wait until the last minute to take the exam!

Can you take my Exams late? If you miss the date for Exam 1 or 3, you can contact me to take it late, but there will be an automatic reduction in points. The Midterm and Final CANNOT be taken late!

MORE INFORMATION ON WORKSHEETS

What do you do? Print out the worksheets for that unit, HAND WRITE your answers.

When do you turn in the worksheets for that unit? You will turn in the worksheets for that unit by the due date listed in Blackboard and the Schedule of Activities.

Where do you turn them in? Go to the Dropbox for the worksheets and click on the Unit, upload there. You will have to scan your worksheets to make a PDF file. If you do not have a scanner, take a picture of each sheet and put those pictures in a Powerpoint or PDF file. You can only upload one document per unit.

Please try to do a PDF file or Powerpoint file or as JPEGs. If I am not able to open your file, it will result in you getting a zero for your worksheets. Also, if the picture or scan is blurry and I cannot read it, that will also result in reduction of points.

Can you turn in worksheets late? Yes, but there will be an automatic reduction in points.

WITHDRAW

(W) -deadline is May 31st; Please contact me before you withdraw.

Incomplete (I) - if you are passing but emergency prevents taking one exam. I WILL NOT give an instructor withdraw unless you talk to me about it BEFORE the deadline for you to withdraw.

MAKE-UP POLICY

I understand that things come up during the semester but it is important to stay on top of your work. There is no legitimate learning when you try to squeeze an entire semester's worth of material into a couple of weeks. It is for that reason that I am strict with my due dates, to help you. Worksheets, Exam 1 and Exam 3 must be completed on the due date. However, if you miss the date for the worksheets, Exam 1 or Exam 3, you can complete the assessment for an automatic reduction in points, you only have 1 week (after that it will just be a zero). If you take Exam 1 or Exam 3 late, you must notify me so that I can reopen the exam for you. THE MIDTERM AND FINAL CANNOT BE LATE - let me repeat: you CANNOT be late on the Midterm and Final.

EXTRA CREDIT

No extra credit is given. Students need to spend their time on required material.

LEARNING OUTCOMES

By the end of this course, the student should be able to:

- Describe basic evolutionary principles (including coevolution, evolutionary reversal, analogous, homologous and vestigial structures).
- List the different levels of the taxonomic classification system.
- Describe the lytic and lysogenic cycles of virus replication and the impact of viruses on living organisms.
- Describe the distinguishing features of the Archaeans.
- Describe the basic structure of a typical prokaryote and the major groups of prokaryotes.
- Describe the 6 Supergroups in Domain Eukarya.
- Describe and compare the overall basics of cell structure and characteristics of protists, the metabolic diversity of protists and the life cycle diversity of protists.
- Explain the characteristics of fungi, describe each phyla of fungi, and describe the role of fungi in the ecosystem.
- Identify the main characteristics, adaptations and life cycles of the nonvascular, seedless vascular and seed plant groups.
- Identify key structures in angiosperm plant structure: flower, leaf, root, and stem.
- Compare the differences in animal body plans.

- Explore the diversity of invertebrates and vertebrates, describe key features of all the major animal phyla, and list examples found in each.
- Describe key features of animal organ systems (nervous, endocrine, circulatory, digestive, respiratory, excretory, immune, and reproductive), comparing features throughout the animal kingdom.

PROGRAM OUTCOMES

Apply problem solving, analytical, and communication skills based on the scientific method that will provide the foundation for lifelong learning and career development.

STUDENT ACCESSIBILITY SERVICES

Indian River State College provides reasonable accommodations to students with documented disabilities through the Student Accessibility Services (SAS) Office. The rights of students with disabilities which pertain to post-secondary education are provided under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. Students who wish to request an accommodation for a documented disability may contact Student Accessibility Services at 772-462-7808, 772-462-7782 or e-mail accessibilityservices@irsc.edu.

It is the student's responsibility to inform the instructor in a timely manner of any accommodations that might be needed.

DISCRIMINATION POLICY

Indian River State College does not discriminate on the basis of race, color, national origin, ethnicity, sex, religion, age, disability, sexual orientation, marital status, veteran status or genetic information in its programs and activities.