

**BISC 160: BIOLOGICAL SCIENCES I: Introductory Biology for Science Majors
Fall 2019**

COURSE LOCATIONS AND SECTIONS

Sections 1, 2: Nutt Auditorium (Music Bldg. rm 123) **Section 1:** 9:00-9:50 am, MWF **Section 2:** 10:00-10:50 am, MWF
Sections 3, 4: Comer Auditorium (Brevard rm 134) **Section 3:** 9:00-9:50 am, MWF **Section 4:** 8:00-8:50am, MWF

PROFESSORS

	Before Exam 2	After Exam 2	Office hours
Dr. Beckie Symula	Section 3, 4	Section 1, 2	M, Th 12-2pm, Shoe 219, or by appointment
Dr. Colin Jackson	Section 1, 2	--	M 2:00-3:00pm, W 3:00-4:30 Shoe 506 (Through Oct. 11)
Dr. Brice Noonan	--	Section 3, 4	TBA

REQUIRED COURSE MATERIALS

Textbook: *Principles of Life, 2nd Edition*. 2014. Hillis, Sadava, Hill & Price. W.H. Freeman & Co., Sinauer Associates, Inc. ISBN 978-1-4641-898-3 (Hardcover) **OR** 978-1-4641-8982-1 (Looseleaf). These packages include a hardcover or looseleaf book, e-book and access to the book's on-line resource, Launchpad. We use Launchpad for lecture and assignments, so you are required to purchase the on-line access code. Launchpad is free for 21 days, so you will have access to your book immediately after you sign up (see below for link). The publisher provides **DISCOUNTED** purchases (<https://store.macmillanlearning.com/storefront/2017F0048-Bio>). If you are waiting on Financial Aid to purchase books or you have other financial issues, please contact us (bisc160@olemiss.edu). We can help.

COURSE RESOURCES

Blackboard and Launchpad: These places are the first to provide course-related information during the semester, including the syllabus, on-line weekly quizzes, your grades, announcements, etc. Please follow the instructions for setting up Launchpad (<http://www.macmillanhighered.com/launchpad/hillis2e/10677794>) provided to you in lecture and on Blackboard. You **MUST** provide your student ID number on Launchpad for your assignment grades to be added to your final grades. Any issues with Launchpad should be reported to Launchpad technical support (800-936-6899) immediately.

BISC 160/162 Resource Center (Shoemaker 309): Staffed by Mrs. Nicole Lewis, located between the course lab rooms. The Resource Center is where to go for questions regarding your BISC161 labs or to pick up your exams if you are not enrolled in lab.

SI Sessions (Study Skills Sessions): These are led by trained undergraduate SI Leaders (Zahra Jiwani, Mary Robbins and Griffin Sanders): See the "Supplemental Instruction" sidebar in Blackboard or the board outside of the Resource Center for the semester schedule. **Students who regularly attend SI sessions do an average of 5-10 points better on exams.**

COURSE REQUIREMENTS

Prerequisites for BISC 160: minimum ACT mathematics score of 25 (SAT 580, SATR 600) or completion of MATH 121 and 123 or MATH 125 or CHEM 101 with a grade of A or B.

Biology Majors and Minors: The Department of Biology requires a final grade of C or better in all Biology Courses used to satisfy requirements for your degree.

Co-requisite Lab is BISC 161: This is a separately graded course that is designed to complement lecture. Please direct all questions about lab to bisc161@olemiss.edu. Lab Book: Biological Sciences 161, Dr. Gail Stratton and Mrs. Nicole Lewis, available in the campus bookstore.

COURSE GOALS

LEARNING OBJECTIVES: BISC 160 is the first semester of a two-semester series. After completing BISC 160, students will know basic Biological concepts at the molecular, cellular and population levels. This is a foundation class that prepares students with the skills necessary for advanced courses in the biological sciences and related subjects. After BISC160, you should be able to:

1. Explain and implement the scientific method.
2. Describe the structure and function of biological molecules.
3. Describe structure & function of cellular components.
4. Explain the pathways that cells use to harvest chemical energy.
5. Explain how living things use genes to generate proteins and transmit information across generations.
6. Describe the process of biological evolution.

COURSE GRADES

Grading: There are a total of 275 points available for the class. The breakdown of points is as follows.

	<u>Points</u>	<u>Example Calculation</u>	<u>Scale:</u>	How to calculate your letter grade:
Exam 1	40	28	A=90-100%	Sum your earned points (see Example on the left.)
Exam 2	40	25	B=80-89%	Divide by total: $212/275=0.771$
Exam 3	40	27	C=70-79%	
Final	80	64	D=60-69%	We use standard rounding for grade calculations.
Homework	25	21	F< 60%	For example, if your grade is a 69.5, you have earned a C even without the Online Quizzes.
Recitation	26	24		(Online quiz points are added to the 69.5, not to the
Attendance	14	13		Total.)
Participation	10	10	<u>We do NOT use the</u>	
Total	275	212	<u>+/- grading scale.</u>	

Exams: There will be three regular semester exams and a final exam, for a semester total of 200 questions.

Exam 1	Friday, September 20 th	40 questions
Exam 2	Friday, October 11 th	40 questions
Exam 3	Friday, November 8 th	40 questions
Final exam	Dates below	80 questions (40 from last fourth of class, 40 comprehensive)

Homework: There are six online homework assignments (5 points each) that you will complete through Launchpad. The lowest homework grade will be dropped. Each assignment will be available Monday at noon and will be due Thursday at 11:59pm. There are two parts to each assignment. Follow the instructions that you are given on Launchpad. Any evidence that you have had someone else do your work for you will give you a 0 for that assignment. If you run into Launchpad problems, call technical support (1-800-936-6899) immediately and email us (bisc160@olemiss.edu) with an incident number from tech support. If there are grading problems with any assignment, you must report the problem to bisc160@olemiss.edu **within 2 days** of the assignment due date.

Recitation: Recitation is completed during the BISC161 laboratory. Activity details will be provided during lab. Each activity is worth approximately two points. The number of points that you earn will be determined based upon your performance on quiz questions at the end of the activity. If you answer 4/5 questions correctly, then you will receive 1.6 points in the lecture. If you successfully passed BISC 161 previously, you will receive all 26 points from recitation regardless of your performance on those questions.

Attendance: Attendance is part of your grade. You **MUST** scan your ID at one of the ID scanners in the auditorium at each lecture (but not during exams). You will be allowed to miss six lecture days without penalty. If you miss fewer than six lectures, we do not need documentation. Please see your professor during office hours (or email bisc160@olemiss.edu) if you have a University excused absence. Major medical conditions and family emergencies will be considered at your instructor's discretion and will require hard copies of documentation. Do **NOT** email medical excuses unless your instructor requests documentation. The University requires that you attend class during the first two weeks of the semester or you will be dropped from both lecture and lab.

Participation: You will complete activities using index cards and other handouts during lecture. To receive credit for these assignments you must turn in completed index cards or handouts with your name and student ID number and section number at the top. If you do not put your information on these activities, you will not receive credit for them. As with attendance, each activity will contribute to a total and will be scaled to the total number of activities that we do in lecture. For example, if there are 18 activities and you complete 16, you will have earned 89% of the score. We will provide regular updates regarding completion of exercises on Blackboard.

Opportunities for additional points

Online Quizzes: There will be 10 online quizzes and the lowest will be dropped. Log onto Launchpad between Friday noon and Sunday 11:59pm for each of the weekends indicated on syllabus schedule. Read the on-line instructions carefully. You may take the 10-minute, 5-point quiz as many times as you like, but the score of your last effort will be recorded. If there are grading problems with any quiz, you must report the problem to bisc160@olemiss.edu within 2 days of the assignment due date. At the end of the semester, your earned quiz points will be averaged and up to 5 points will be added to your final grade. If you earn 41/45 points for your quizzes, then you have earned 4.6/5 available quiz points. So 4.6 points are added to your final grade. For example, if you have earned 207/275 points (75.2%). Then your final grade would be $75.2+4.6=79.8\%=B$.

Course survey: We will ask you to complete a survey on Blackboard before Exam 1. If you complete the survey, you will have 4 points added to one of your exams.

COURSE POLICIES

In Class Behavior: All students must uphold the University Creed. We expect that your behavior will promote an open and diverse atmosphere that encourages learning. You are expected to respect all other students in the class. Tobacco products (e.g., dip, chew) are **NOT** allowed in lecture halls or during exams. Please take any trash you bring into lecture halls with you and dispose of it properly.

Electronics: Use of cell phones, including texting, is limited to in-class activities. Please turn the phone to silent. You may **NOT** use your phone to photograph slides during lecture. If you choose to make audio recordings in lecture, you must receive approval from your professor. Laptops, etc. are acceptable for note taking only. Please consider that inappropriate computer or cell phone use during lecture can be a distraction to you and your classmates and that graduate students and instructors sitting in on all lectures will assess inappropriate use. If we find that electronic use is being abused, we will take away the privilege or ask you to leave lecture.

Academic Misconduct: In this course, academic misconduct applies to exams, assignments and online quizzes. Examples of academic misconduct include, plagiarism (See Mbook), copying someone else's work or allowing someone else to copy your work, memorizing exam questions and providing them to students in another section, using your cell phone or headphones during exams or having someone else answer online assignment questions for you. The Ole Miss definition of Academic Misconduct can be found on pp. 4-6 in the Mbook (<http://dos.orgsync.com/home>). We do not tolerate any means of Academic Misconduct and will follow the University policy on generating sanctions in any event of misconduct that we identify.

Contacting us:

Please consult Blackboard for questions regarding the syllabus and other course announcements. Please try to seek out answers to lecture material questions in your text book or by attending SI sessions. If you cannot find the answer, use one of the following:

Office Hours- All BISC 160 professors hold regular weekly office hours. (See above or Blackboard for updated times). You are welcome to drop in during these times and you do **NOT** need an appointment during these times. If your class schedule prevents you from seeing us at these times, please make an appointment by e-mail. Do **NOT** just drop in for a "quick question." Do not phone unless it is an emergency. Keep in mind that there are more than 800 students in the class; so use office hours for biological information and for major questions not answered by the syllabus or Blackboard.

E-mail- If you need to contact us, email bisc160@olemiss.edu. **Do not email any of your instructors at their personal addresses.** (We receive a lot of email and your email will get lost!). Assume that any emails sent there are deleted immediately.

You must use the following format when e-mailing us, or you will not receive a response:

- *Include your full name, your section number and your student ID.* One way to do this is to end your email with that information: "Thanks, Jenn Smith, BISC 160 Sect. 2, 12345678". This is crucial if you use an email other than go.olemiss.edu.
- *Write clearly.* Email to your professors is formal. Do not use texting short cuts, so we are absolutely sure of what you need. Think of the email as a short letter or formal request. It is not a text message. Please proofread your message before sending.
- *Only label your email as "Urgent" or "Emergency" if it really is. Do not misuse this.*
- *Give us time to reply.* You should receive a response within 48 hours. If you send an email at 11:30pm Friday night, you might not get a reply until Monday afternoon. If you haven't had a reply within a couple of work days, please send a follow-up email.

Course Withdrawal Deadline (October 7, 2019): This is the last day to withdraw from the course. Please see the University policy for details on course withdrawal and the Drop-Add process (<http://catalog.olemiss.edu/academics/regulations/class-registration>).

Exam Information: Bring your student ID, #2 pencil and one Scantron form #F-289 to every exam. No electronic devices are allowed during an exam and you may be asked to remove your hat or any smart watch. Any cell phone, calculator, headphones etc., found on a desk during an exam will be evidence of cheating and the student will make a zero on the exam. Please put your Student ID on the Scantron form before coming to the exam. (Your ID starts with a '1' and is only 8 digits long.) Exams will be returned in lab as soon as possible. If you are not in lab, please pick up your exam at the Resource Center. After analyzing your test, if you suspect a question was graded improperly, you have one week (from date of test return) to contact us about the problem. If a student is eligible for exam accommodations, the student must provide us a hardcopy of the accommodations provided by the office of Student Disabilities at least **1 week** before the exam is given.

Makeup exams will only be given to those students who miss a test because of an official University activity or because of illness or family emergency. *In all cases, arrangements for a makeup test must be made prior to an official University absence.* If you do not contact us about missing an exam by 5pm of exam day, 10% will be deducted from your exam grade. It is your responsibility to contact us in person to schedule a makeup exam. (To do this, schedule an appointment through BISC160@olemiss.edu or attend office hours.) Make-ups are given at the instructor's discretion. Do not assume that you will be allowed to take a make-up exam. Make-up exams must be taken at a date and time decided by the instructor, generally within 2-3 days of the original exam date. Due to the size of this class and university regulations, exam dates are not negotiable. For example, do not schedule a vacation that begins on the 8th of December if you have an exam on the 9th.

LECTURE SCHEDULE: FALL 2019.**Lecturers:** Dr. Colin Jackson (Sections 1, 2) and Dr. Beckie Symula (Section 3, 4)

Day	Date		Chapter Title (Topic)	Assignment available date	Chapter
Mon.	8/26	1	Studying Life		1
Wed.	8/28	2	Studying Life, The Chemistry and Energy of Life		1, 2
Fri.	8/30	3	The Chemistry and Energy of Life	Launchpad Quiz 1	2
Mon.	9/2		LABOR DAY HOLIDAY (No Classes)	Online homework 1	
Wed.	9/4	4	The Chemistry and Energy of Life		2
Fri.	9/6	5	Nucleic Acids, Proteins and Enzymes	Launchpad Quiz 2	3
Mon.	9/9	6	Nucleic Acids, Proteins and Enzymes	Add-Drop Deadline	3
Wed.	9/11	7	Nucleic Acids, Proteins and Enzymes		3
Fri.	9/13	8	Cell Membranes and Signaling	Launchpad Quiz 3	5
Mon.	9/16	9	Cell Membranes and Signaling	Online homework 2	5
Wed.	9/18	10	Cell Membranes and Signaling		5
Fri.	9/20		Exam 1 Bring Scantron, #2 Pencil & Student ID		
Mon.	9/23	11	Cells: The Working Units of Life		4
Wed.	9/25	12	Cells: The Working Units of Life		4
Fri.	9/27	13	Cells: The Working Units of Life; The energy of life	Launchpad Quiz 4	4, 2.5
Mon.	9/30	14	Pathways that Harvest and Store Chemical Energy	Online homework 3	6
Wed.	10/2	15	Pathways that Harvest and Store Chemical Energy		6
Fri.	10/4	16	Pathways that Harvest and Store Chemical Energy	Launchpad Quiz 5	6
Mon.	10/7	17	Pathways that Harvest and Store Chemical Energy	Course Withdrawal Deadline	6
Wed.	10/9	18	Pathways that Harvest and Store Chemical Energy		6
Fri.	10/11	19	Exam 2 Bring Scantron, #2 Pencil & Student ID		
Lecturers: Dr. Beckie Symula (Section 1, 2) and Dr. Brice Noonan (Section 3, 4)					
Mon.	10/14	19	DNA and Its Role in Heredity (Mutation is in here)		9
Wed.	10/16	20	DNA and Its Role in Heredity		9
Fri.	10/18	21	DNA and Its Role in Heredity	Launchpad Quiz 6	9
Mon.	10/21	22	The Cell Cycle and Cell Division: Mitosis	Online homework 4	7
Wed.	10/23	23	The Cell Cycle and Cell Division: Mitosis		7
Fri.	10/25	24	From DNA to Protein: Gene Expression	Launchpad Quiz 7	10
Mon.	10/28	25	From DNA to Protein: Gene Expression	Online homework 5	10
Wed.	10/30	26	Regulation of Gene Expression		11
Fri.	11/1	27	Regulation of Gene Expression	Launchpad Quiz 8	11
Mon.	11/4	28	The Cell Cycle and Cell Division: Meiosis		7
Wed.	11/6	29	The Cell Cycle and Cell Division: Meiosis		7
Fri.	11/8		Exam 3 Bring Scantron, #2 Pencil & Student ID		
Mon.	11/11	30	Inheritance, Genes and Chromosomes		8
Wed.	11/13	31	Inheritance, Genes and Chromosomes		8
Fri.	11/15	32	Inheritance, Genes and Chromosomes	Launchpad Quiz 9	8
Mon.	11/18	33	Mechanisms of Evolution	Online homework 6	15
Wed.	11/20	34	Mechanisms of Evolution		15
Fri.	11/22	35	Mechanisms of Evolution	Launchpad Quiz 10	15
	11/23-12/1		FALL BREAK (No Classes)		
Mon.	12/2	36	Mechanisms of Evolution		15
Wed.	12/4	37	Speciation		17
Fri.	12/6	38	Speciation		17

The topics in the list above may change. You will be told in class when changes are made to this schedule. We will provide any changes or excluded sections of a chapter in "Textbook Reading" on Blackboard and in "Announcements" on Launchpad.

FINAL EXAM:	Section	Time	Location	Date	Time
	Section 1	(9:00 am)	Nutt Auditorium	Wednesday, Dec. 11, 2019	8-11 am
	Section 2	(10:00 am)	Nutt Auditorium	Friday, Dec. 13, 2019	8-11 am
	Section 3	(9:00 am)	Brevard Auditorium	Wednesday, Dec. 11, 2019	8-11 am
	Section 4	(8:00 am)	Brevard Auditorium	Monday, Dec. 9, 2019	8-11 am

BISC 160 sections are NOT eligible for final exam rescheduling. Examinations are to be given only at the scheduled hours, either for an individual or for a class, unless the instructor concerned has specific approval from the academic dean. See the University Policy: <http://catalog.olemiss.edu/academics/regulations/examinations>