

BIOLOGY 1111 – Introductory Biology

Spring 2017

Lectures MWF: 1:00pm-1:50pm & 4:00pm-4:50pm Beury 160

Instructors and other important Personnel:

Lecturer

Dr. Frank Nelson

Room: 248B Bio-Life

E-mail: frank.edward.nelson@temple.edu

Phone: (215) 204-6528

Office Hours: W 2-3

or by appointment through email

Lecture Coordinator

Mr. Andrew Van Kuren

Room: N/A

E-mail: avankuren@temple.edu

Office Hours: Contact by email
For appointment

Laboratory Coordinator

Dr. Daniel Spaeth

Room: 248Q Bio-Life

Phone: 215-204-6722

Email: spaceman@temple.edu

Office Hours: by Appointment

SOAR (recitation sections) Coordinator

Dr. Michael Balsai

Room: 248M Bio-Life

E-mail: mjbalsai@temple.edu

Office Hours: TBD/by appointment

PASS Leader

Bethany Morton

Room: TBA

Email: tuf85072@temple.edu

Office Hours: TBA

Additional instructor information will be posted on Blackboard under the “Contacts” tab.

Whom Do I Contact?

Kindly direct all questions to the appropriate individual. Failure to do so may result in your query being delayed.

(1) Question regarding **course material** should be solely directed to the course professor **Dr. Balsai**. (2) Questions regarding your **laboratory** should first be directed to your assigned **laboratory instructor**, only after contact has been made with your laboratory instructor should you direct your laboratory questions to the laboratory coordinator **Dr. Spaeth**.

(3) Questions regarding **SOAR recitation sessions** should first be directed to your assigned **SOAR recitation instructor**, only after contact has been made with that individual should you contact the **lecture coordinator Prof. Van Kuren**. Do not contact Dr. Balsai with SOAR recitation queries before contacting Prof. Van Kuren, and do not contact Dr. Spaeth with SOAR recitation queries at all.

(4) Questions regarding **quizzes, clickers, online material, Blackboard, MasteringBiology, attendance, and the general operations of Bio 1111** should be solely directed to the lecture coordinator **Prof. Van Kuren**. When in doubt of whom you should contact, first contact the lecture coordinator.

Netiquette:

What is Netiquette? Simply stated, it's a set of rules for behaving properly online. When you email, for this course or not, please remember to be respectful and courteous. Many of the instructors associated with this

course receive a copious number emails a week and if you want yours returned in a reasonable time please follow the Bio 1111 netiquette rules: 1) Always put your full name, TUID number and Bio 1111 in the subject line of all emails. If you put “Hey...prob with homework”, it is unlikely to get picked first to read. 2) Keep emails short and to the point, we do not want a long and loquacious email. Eliminate any and all non-essential information. 3) Refrain from putting any song lyrics or any other superfluous material into your emails. 4) No begging! If you can follow these rules the Bio 1111 staff will respond to your query as soon as we can.

Grant Information:

This semester, students in BIO 1111 are eligible to participate in a research study that aims to understand how combinations of supports for learning and motivation can help learning and achievement in the course. Participants will receive extra course credit – up to 5% to the final grade when completing all study assignments, or percentage that is commensurate with the rate and timeliness of completion of assignments. The research team will present the study in lecture during the first week of the semester, and students can ask clarification questions and enroll during that time. To contact the research team with any questions, please email: Stem1@temple.edu

Course Description:

INTRODUCTION TO BIOLOGY I is an undergraduate survey course designed for students who are interested in biology-related careers. The course will cover a broad range of topics including: biological evolution, biological diversity (*microbes, plants, and animals*), animal physiology, and general ecology. We will begin our study by defining evolution, examining how it is studied, how new species are defined, and how lifeforms are classified. We will then examine a number of different life forms at increasing levels of complexity. This will proceed from the microbes (*excepting viruses*) with their incredible metabolic diversity that sustains life on earth, through the “higher” eukaryotes including their structure-function, reproduction, feeding strategies and distribution as well as strategies used by different organisms to adapt to their environments. We then examine aspects of animal anatomy and physiology and how animals interact with their environment. Moving on and finishing with ecology and biodiversity, we will examine the interactions among all of these forms of life and how biological communities are organized.

Important Points:

Students in the course can increase their understanding of the impact of modern biology on today’s world by relating topics discussed in class with issues described in the news. Students will develop their ability to examine biological data and extract trends and insights about cause and effect. **This course, like most modern biology courses, requires students to read A LOT OF MATERIAL IN ADVANCE OF EACH CLASS. Students are expected to attend the lectures, take notes and pay attention.** Students should also note that some of the material mentioned in the lectures will not specifically be found in the texts but they are responsible for this material anyway if presented during lecture. **The best, easiest, and really the only successful approach to doing well in this class includes carefully reading and studying all the presented material (*text and otherwise*), coming to class regularly, taking notes, paying close attention, attending all scheduled labs, attending all scheduled recitations, completing all quizzes, and where appropriate, participating in the discussions.**

Required Text / Material

All materials are pictured below except for the redeemable MasteringBiology code

1. Campbell Biology by Urry, L. A. *et al.*, 2017, **11th Edition**. ISBN-13: 978-0-134-093413-3 Available in the **Temple University Bookstore**, sold individually in loose leaf or hardbound options; and also sold as part of a package option. Speak with bookstore staff regarding any and all package options. *If you have a 9th or 10th edition from a previous semester you may also use it, however, it is your responsibility for recognizing and*

adapting to any page number and chapter differences. **While this particular textbook edition is not required, it is strongly recommended.**

2. MasteringBiology access code. Along with your purchase of the textbook from the bookstore will be a redeemable access code from *Pearson* to access the **MasteringBiology website**. If you purchase a textbook from a location other than the Temple University Bookstore, borrow one from a friend, purchase from Amazon™ or any other location your textbook may not automatically come with an access code. If this is the case, you may purchase a code directly from *Pearson* when signing up for the online component of the course. **This code, and gaining access to MasteringBiology is required (note that it will be more properly keyed to the 11th. edition of the text). BIO 1111 SP2017 Course Code: MBBALSAI12309**

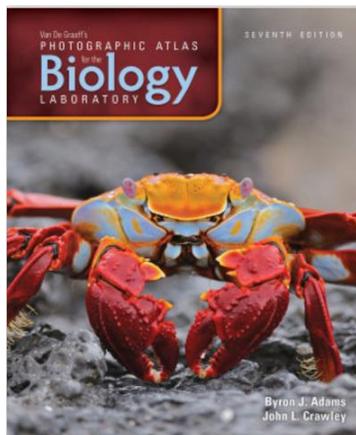
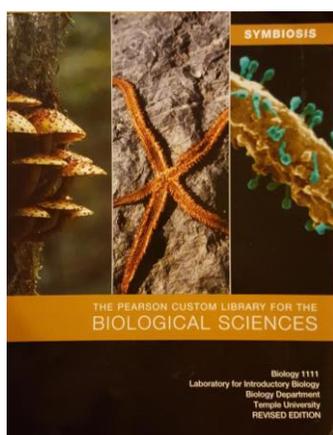
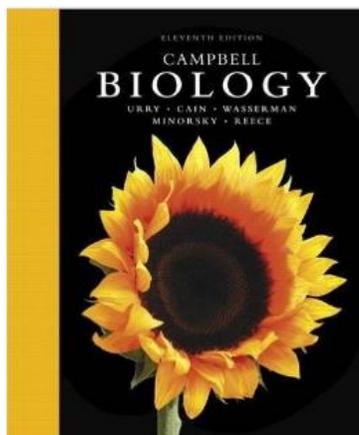
3. Laboratory Manual. The laboratory manual is a Temple University exclusive collection of experiments to supplement and enhance the observational nature of the course. You will use this manual in your assigned weekly lab to study scientific techniques (*i.e. gram staining procedure*) as well as biological specimens (*i.e. starfish, angiosperms, fetal pigs*). **This manual is required.**

4. Clicker. Students are **required** to purchase and properly register a clicker for Bio 1111. Instructions on how to register the clicker will be provided on Blackboard and covered in the first week of class. This device is a Turning Technologies product available at the Temple University Bookstore, often offered as part of the package with the textbook. Clickers will be used daily to monitor your presence in lecture and take quizzes in both laboratory and recitation. While Turning Technologies does offer numerous types of clickers, for Bio 1111 we will **only** be supporting the **QT Device**.

5. Van De Graaff's Photographic Atlas for the Biology Laboratory. A full-color photographic atlas that provides a balanced visual representation of the diversity of biological organisms. It is designed to accompany the biology textbook or laboratory manual. **The atlas is suggested.**

Additional laboratory materials are listed on Blackboard under the “Labs” tab.

IMPORTANT: It is necessary for this course that you obtain **AccessNet** and **Temple email accounts** (*Obtain these by going to <http://www.temple.edu/cs>. You can also visit the Computer Services Help Desk, Rm 106, TECH Center, 12th St. & Montgomery Ave. Call 204-8000 for more information*). Without an AccessNet account you will not be able to access the Blackboard site or receive any special notices for this course.



Preparation & Responsibilities:

Preparation for lectures and exams requires that you **read all the chapters listed**. Certain subtopics (typically 1 to 2 page sections within the listed chapters) will not be covered in the exams or lectures and will usually be pointed out to you during lectures or office hours where necessary. The general rule of thumb here is that textbook sections not discussed in lecture or the PowerPoints, will not be included on exams.

Besides the questions that will be covered in SOAR recitation sessions, and the questions in the weekly pre-lecture MasteringBiology quiz, it is at the discretion of the lecture professor to assign a small sample of multiple choice questions and additional materials on Blackboard for each exam. The purpose of these questions is to **guide how you should be thinking about the material** covered in the lectures and to familiarize you with the types of questions given on exams. You should attempt to answer these questions and bring your completed questions to the SOAR sessions. If the SOAR instructor has additional time then they are permitted to discuss these additional problems, however they do not take precedence over the actual scheduled SOAR questions. **There will never be any posted answers to these Blackboard questions. The answers are to be actively sought after by the student, not posted for the active, and lazy, to benefit equally.** It is essential to realize that the answers themselves to these questions are only part of the solution and it is just as important to be able to rule out the other choices as false, and learn that knowledge is something you need to strive for, not rely on it being handed to you. In addition students may seek out the course instructor for help during office hours for these questions, **but only if unable to attend the review sessions (attendance will be recorded). Office hours are normally reserved for discussing difficulties with understanding material seen in lecture rather than merely going over review questions or exams.**

You are strongly advised, to ideally read ahead, preferably to review current material between lectures, and to at least minimally keep up with the course. **Previous students have stated that it is very difficult to catch up on missed materials especially because current lectures (and a Biology major in general) build on previous topics. There is too much material to try and cram in the week before an exam and virtually all students who attempt to do this fail.**

Electronic Devices:

1. **Cell phones** are **prohibited** during lecture.
2. **Laptops** are **prohibited** during class without advanced permission by the Professor or Lecture Coordinator. These are generally distracting. You will be asked to leave and will not receive points for the day if you have them on during lecture and are caught using email or logged onto social media (*Facebook, Twitter, etc.*). Please bring something to write on.
3. **Audio recording devices** are permitted, but the Bio 1111 faculty take no responsibility for lost or damaged devices. If you wish to place a recording device at the front of the lecture hall to record a lecture it is your responsibility to retrieve it after lecture is complete.
4. **All other electronic devices** (*i.e. Tablets, Surfaces, IPods, iPads, etc.*) are **prohibited** unless given advanced permission by the Professor or Lecture Coordinator.

Drop/Add & Withdraw Deadlines:

See the undergraduate bulletin for information about withdrawing from the course.

- (1) **Last day to drop/add** (tuition refund available): **Monday, January 30, 2017**
- (2) **Last day to withdraw** (no refund): **Wednesday March 22, 2017**. Students who have previously withdrawn from the same course may not withdraw. Those who have already withdrawn from several other courses should check their eligibility to withdraw.

Blackboard:

Course announcements, lecture notes (PowerPoints), practice questions and non-graded quizzes (all material) will be posted online using Blackboard. When available, lecture notes will be posted shortly before or after each lecture. **Updates to this syllabus may be posted; please check periodically.** If you have not used Blackboard previously, ask a fellow student to spend a few minutes helping you or go to the Tech Center help desk. You will also receive important course announcements via your Temple email account. If you do not use your Temple email account, you need to activate it. If you have forgotten your password, you need to go to Computing Services and have them assign you a new password.

Meeting with Your Instructor:

All students are encouraged to meet one-on-one with their **lecture instructor** during the semester, particularly during office hours. The goal of this meeting is to discuss your study habits, review exams and make suggestions on how to become a better exam taker. **Students who score below 50% on the first midterm MUST meet the Dr. Balsai BEFORE the 2nd midterm.**

Early Performance Evaluations:

Official early performance evaluations will be posted based on the initial exam information.

Recommendations (Professional or Personal):

Students who may potentially desire a recommendation (normally for A or A-) from the course instructor **must visit sometime(s) within the semester during office hours because this is very useful for writing such recommendations (it is much easier to write for a familiar student than an “unknown” one).**

Grading Policy: There are no curves or makeups!

The lecture grade and the laboratory grade are combined to determine your overall grade for the course. The lecture component for the course is worth 70% and the laboratory component is worth 30%. **Details on laboratory grading will be presented in laboratory and posted on Blackboard under the “Labs” tab.**

Grades will not be awarded on a curve, *i.e.* if everyone gets a 75%, everyone will get a C+. There will also not be any makeups allowed for Bio 1111 for any reason. The course professor does reserve the right to allow exams to be taken early depending on the circumstances. Details will be provided below under each individual grading component.

No letter grades will be given on the quizzes, tests and assignments. Final letter grades will be issued at the end of class. Students can expect letter grades based on the following 100 point scale.

Score	Grade	Score	Grade	Score	Grade	Score	Grade	Score	Grade
93-100	A	87-89	B+	80-82	B-	70-74	C	58-64	D
90-92	A-	83-86	B	75-79	C+	65-69	C-	57-0	F

While scores above are presented as whole numbers actual scores will be calculated using decimal points rounded to the nearest tenths. Students who are close to a border grade (*as defined below in the Borderline Case section*) will have special consideration given to their grades.

Lecture grades (70%) will be determined as follows:

Examinations (30%)

There are four (4) closed book examinations in Bio 1111, *please review the schedule at the end of this syllabus for specific dates and times*. Only your three (3) highest examination scores will be counted toward your final grade. Each of your three (3) highest scores will count equally towards the 30%; meaning each examination is worth 10% of your overall score. Examinations **must be taken during their scheduled time**. There are **NO MAKEUPS** permitted for examinations for any reasons. Due to the nature of the material and speed at which the exams are reviewed after the scheduled examination time you are **not permitted a makeup for any reason**. If for some reason you are absent for an examination (*i.e. extreme illness, automotive issues, legal proceedings, etc.*) that **missed examination automatically becomes your dropped exam**. If you miss another examination, for whatever reason, that missed examination will count as a zero (0%) towards your overall grade. **It cannot be overstated how important it is for you to attend and take all examinations.**

Giving or receiving information during an exam to another student is a violation of the Temple University Student Code and will result, at a minimum, in a Failing grade. No programmable calculators or translators will be permitted. The use of cell phones will not be permitted in exams. **All queries concerning the grading of lecture exams must be directed to Professor Van Kuren in writing (i.e. email) no later than one week after the exam scantrons are returned in labs or SOAR recitation sessions.** A copy of the exam, with answers, will be posted outside of room 132 in a glass wall mounted case in the BioLife Sciences Building. Exam answers will be covered in SOAR recitation sessions.

Final Examination (30%)

There is a comprehensive closed book final exam worth 30% of the lecture grade, *please review the schedule at the end of this syllabus for specific dates and times*. The final examination will have a similar format as the four (4) lecture examinations. **Final exam scores are not subject to being dropped for any student**. Unlike the four (4) lecture examinations the final examination score will never be dropped for any reason. If you miss the final, and have a valid preapproved excuse you must take a makeup examination by the end of the second week of the following semester. **All makeups are at the discretion of the lecture instructor**. Students who miss the final exam with a valid excuse will be given a grade of **incomplete** (*review the incomplete grade policy below*), and permitted to take a makeup final as specified above, provided they have completed all other course obligations (including assignments for both lab and lecture) with passing scores, and are therefore eligible for an incomplete. An incomplete is assigned only with a signed contract between the lecture professor and the student with a default grade assigned. This makeup final will have significantly greater difficulty because students taking it have more time to study. The course professor also reserves the right to change the format of the exam from written to oral if they deem it necessary.

Quizzes (10%)

The final 10% of your lecture grade will come from the required electronic quizzes through MasteringBiology.com and SOAR recitation quizzes. Both MasteringBiology quizzes and tutorial along with SOAR recitation quizzes will be averaged together to give you an overall quiz grade to count as 10% of your final grade.

MasteringBiology quizzes: As described above under the “Required Text / Material” section. Each student is **required** to purchase an access code to Pearson’s MasteringBiology.com. This can be achieved by purchasing it as part of the package deal with the textbook from the Temple University Bookstore or purchasing it directly from Pearson with a credit card. **Students are required to take this code and register for access to MasteringBiology.com as soon as possible.** Failure to register in a timely manner, for whatever reason, will result in missing tutorials and quizzes. There are **NO MAKEUPS** for missed quizzes and tutorials for any reason. MasteringBiology quizzes will count for points immediately after drop/add is over. Once an electronic deadline has passed it will never be reopened. The exact number of MasteringBiology quizzes may vary from semester-to-semester, however there will be approximately 12 “pre-lecture” MasteringBiology quizzes per semester. All MasteringBiology quizzes will be posted at the beginning of the semester. A schedule of these quizzes along with their points value, open date and times and closing dates and time will be posted on Blackboard. It is important to

note that these quizzes are designed to be taken in conjunction with the material as its being presented. It is paramount for you to keep up with the readings to complete these quizzes.

SOAR Recitation and quizzes: Students are **required** to sign up for a weekly recitation session just as they are to sign up for the lecture component and laboratory component. These SOAR recitation sessions will be used to go over a selection of six questions chosen to highlight the topics that are currently being or are about to be covered in lecture. These questions will be posted the Saturday before the week they are due in the SOAR recitation sessions and will count for points immediately after drop/add is over. Students will be required to click in their answers at the beginning of each session. After that the students will break up into six evenly distributed groups and will be allotted ten minutes to discuss the answer to an assigned question (one per group). Students will not know which question their group will be assigned and therefore must be prepared to answer all of them. **Students failing to click in answers during their SOAR sessions or have a dysfunctional clicker will not receive credit for attending them.** There are **NO MAKEUPS**, so under normal circumstances, you cannot make up SOAR recitation sessions. Only under **special circumstances** can you be granted permission to attend a SOAR session you are not scheduled to take, but it **must be earlier than your scheduled session never later**. Each SOAR recitation will open with a short quiz based on the above described six questions. You will take this quiz electronically using your registered clicker. It is extremely important to arrive at SOAR recitation on time as each minute you are late will result in you losing quiz points. Once a quiz is complete it cannot be reopened or taken again. All data is stored electronically and there is no option to take a paper based version of the quiz. Based on the semester there are approximately nine (9) SOAR recitations and quizzes that follow the above described format. Four (4) additional SOAR recitations sessions spread evenly throughout the semester will be used to cover the answers on the four (4) examinations. **These SOAR recitations sessions are mandatory and attendance will be taken using the clicker devices.**

Additional Online Material (Not Graded)

Additional online material may be assigned or opened at the discretion of the lecture instructor. This material is not included in the overall grading procedure, but it may be recorded and used in the “Borderline-Cases” Policy (see below). This material may include, but is not limited to, extra practice problems, additional graphs and figures, pre-SOAR quizzes, homework, supplemental readings

Exam Review

Beginning the Monday following an exam (excluding the final), exam questions will be reviewed in all SOAR sessions that week. Students will be provided with their graded scantrons and are expected to review the answers. SOAR instructors will provide the correct answers and cover the exam in as much detail as they deem fit in the provided time. **Any deeper questions regarding course material should be directed to Dr. Balsai. Any incorrect grading is to be taken up with the lecture coordinator Prof. Van Kuren. Exam review days are mandatory and will count as part of your overall quiz grade.**

Laboratory:

The laboratory component of Biology is a separate part of the course, but does not result in a separate grade. The laboratory contributes 30% of the overall course grade. The basic schedule of labs accompanies the attached lecture syllabus as the right most columns of the following pages. The full lab syllabus with assignments, points and other pertinent information for lab materials, procedures and protocols is available on the Blackboard course site for Biology 1111. As in lecture, the laboratory makes extensive use of the Blackboard resources to organize and disseminate class information to students for every lab. Lab announcements are generally posted on Blackboard’s opening announcement page after the first week of class. Information for each laboratory is posted in the lab section of Blackboard the week before the lab. Some material can be read on Blackboard, some has to be downloaded and printed out for the lab. Long term lab projects are posted on Blackboard as well. Bio 1111 labs are held in rooms 132 and 145 of the Biology Life Sciences Building. Your registration tells you your room assignment.

Clickers (QT Devices)

As described above in the “Required Text / Material” section all students are required to purchase a Turning Technologies QT Device from the Temple University Bookstore or a reliable online retailer. Students must have the QT Device in possession and properly registered before the closeout of the first online assignment to receive all possible credit during the semester. These devices will be used to record lecture attendance, answers for the questions during SOAR recitation quizzes, and occasionally for in lecture questions that might turn up during lecture (*not used for points but to gauge understanding*). However, they are not necessary to use during regular office hours with the course instructor.

Failure to purchase a clicker will result in that student being counted as absent during lecture, and being absent and non-participatory during SOAR recitation sessions despite being present at any or all of these events. This carries with it an automatic loss of roughly 5% of your overall grade and forfeits your chance at “*Borderline Case*” consideration.

Students are responsible for the proper function of their QT Device clickers; which includes having batteries and not damaging the device. Students can have their QT Devices checked for functionality at the tech center or with your SOAR recitation instructor

Please note that students caught using another student’s clicker to gain them attendance and/or lecture quiz credit will face disciplinary action (this will affect all students involved) as this is a violation of the Temple University Student Code. Attendance will start in lectures the week following the end of Drop/Add.

If you obtain a “used” QT Device do not register any numbers on a “used” sticker applied by the bookstore or retailer. Remove any post manufacture applied stickers and register the proper Device I.D. on the back of the device. Also, if you obtain a device from a previous Temple student they must unregister the device in their name to allow you unfettered and exclusive access to the device. If you feel your device is not properly unregistered you may seek assistance from the student Tech Center.

Turning Technologies offers many types of “clickers” we will only be supporting the QT Device (pictured above). If you register any other type of device besides the QT Device, Bio 1111 faculty are not responsible for any loss of electronic grades. **NO MAKEUPS** will be permitted due to unsanctioned registered clicker error. While smaller cheaper clickers have worked in the past there is no guarantee they will continue to work in the immediate future as Temple University and Turning Technologies are continuously updating software.

The preparation of clickers will be covered in lecture the first week and is detailed on the lecture Blackboard page.

Incomplete Grades

Incompletes are strongly discouraged, but, if you must take an incomplete you need to have: **(1)** taken at least three lecture exams and associated lecture quizzes, **(2)** be passing the course, and **(3)** have attended all the labs and submitted the majority of your lab assignments satisfactorily (*determined by Dr. Spaeth*). To receive an incomplete you need to fill out a form that is available in the Biology Department Office and have it signed by Dr. Balsai. It is very important that you also inform Dr. Spaeth if you are taking an incomplete. Your incomplete must be made up by the end of the designated period, as per contract agreement. Failure to make up an incomplete within the designated time limit will result in your being given an F for the work that you did not complete.

Borderline-Case Policy:

At the end of the semester the lecture instructor reserves the right to pay special attention to “borderline-cases”. A

borderline-case is any student whose final grades falls less than a **predetermined percentage** away from a higher letter grade (i.e. C- to a C), this is usually 0.05% but not guaranteed every semester. Once the borderline student has been identified the **Bio-1111 faculty will evaluate all non-graded assignments associated with the course, this includes but is not limited to: non-graded quizzes, supplemental material completion, lecture attendance, diamond peer tutor attendance, office hour visits.** The criteria for determining assistance is predetermined and different from semester-to-semester. Some students will qualify and be granted a higher letter grade and some will not. **These decisions are final and not open for debate.**

Temple' Freedom to Teach and Learn Policy:

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy # 03.70.02) which can be accessed through the following link: http://policies.temple.edu/getdoc.asp?policy_no=03.70.02.

Honesty and Civility:

You must abide by Temple's Code of Conduct (see <http://www.temple.edu/assistance/udc/coc.htm>), which prohibits:

- 1.) Academic dishonesty and impropriety, including plagiarism and academic cheating.
- 2.) Interfering or attempting to interfere with or disrupting the conduct of classes or any other normal or regular activities of the University."

Do Not Even Try to Cheat:

Avoid all appearance of cheating. We have a "**zero tolerance**" policy. The Temple Honor code, which you will sign in the form of the student contract before you take all of the exams in the course, provides disciplinary action for cheating which may include expulsion from the University. Review the Temple University Policy on Plagiarism and Academic Cheating:

http://www.temple.edu/bulletin/Responsibilities_rights/responsibilities/responsibilities.shtm you are responsible for following this policy for all assignments, tests and exams; students who do not will be penalized. The penalty will vary with the nature of the offense, and will involve, as necessary, the lab coordinator and lecture instructor, the department, and the college. **Given the plethora of electronic devices that can enable the circumventing of exam security, all electronic devices must be off and inside an enclosed item such as a backpack. This includes cell phones, tablets, laptops, and electronic watches such as the Apple watch or similar such devices must be removed for the duration of the exam.**

The following guidelines will minimize disruption of your fellow students during lectures (after the Chronicle of Higher Education *March 27, 1998, p. A12*):

Please Do Not Disrupt Lectures with Conversations (or Anything Else):

Everyone who registers for this class is an adult. You are legally able to marry without parental consent, buy a home, pay taxes, vote, and work, budget your money, defend your country in military service, etc. You should also be adult enough not to disturb others. Mindless talking (which includes on cell phones which is not allowed anyway) during class is immature, inconsiderate behavior. Please ask questions or make comments that will benefit the entire class, but leave the chit-chat in the halls where it belongs. Students sitting around you are unlikely to appreciate disruptive talking during lectures and labs. We will take an escalating series of actions to strongly discourage disruptive behavior.

Avoid Entering Lectures Late:

If you are late, enter as quietly as possible. Find a seat near the back or sides, do not make a scene and try to sit in the middle of row if you are late. Never enter through the doors located at the bottom of the lecture hall, as it

interrupts the lecture instructor. **Late and disruptive students may not receive any credit for attending lecture.**

Avoid Eating Meals in the Classroom:

Avoid eating meals in class. This can distract other students.

Attendance:

If you miss a class meeting for any reason, you will be held responsible for all material covered and announcements made in your absence. Attending EVERY class enhances your undergraduate experience. Attendance will be taken using clickers at every lecture beginning after the Drop/Add period.

Disabilities:

Any student who needs accommodation in lab and lecture because of a disability should contact both Dr. Balsai for lecture and Dr. Spaeth for lab, privately to discuss the specific situation as soon as possible. **Documentation from the DRS office is required.** The Office of Disability Resources and Services (215-204-1280) in Ritter Annex 100 can coordinate reasonable accommodations for students with documented disabilities. Student must see them, get tested, and register well in advance of exams. In addition, New rules at the DRS require advanced notice by several days for exam accommodations. It is the responsibility of the student to adhere to the DRS schedule for registration and paperwork when requesting an exam accommodation. **Laboratory accommodations are handled by the Lab Coordinator on a case-by-case basis.**

The instructor will follow several guidelines for the course as listed here:

The grading structure is predicated on the assumption that even if you have difficulty with the mid-term exams (students usually find them difficult), the lab work will anchor your grade and can help to mitigate the overall “damage” of the lecture exams to some extent when performed conscientiously and carefully. Therefore, many if not most students who fail the course (with grades D or F) are typically though not exclusively students who essentially “drop out” without **officially** dropping the course. “Essentially drop” includes students who stop coming to class and/or lab but who cannot drop because of financial aid considerations.

A guide to achieving a good final grade. This survey course covers an incredible amount of material in a short time. **The reading load and vocabulary expectations are intense.** The exams are very difficult and are intended to indicate the spread of mastery of the material by the students. The course is designed to prepare you for upper-level biology courses. The instructors are committed to helping you develop good study habits including improving your close reading skill. We are committed to collaborative learning, efficient use of class time in lecture and lab. **Please note that Biology 1111 is not intentionally designed as a “weed-out course”, rather, students “weed” themselves out!**

If you want an A in the course, you should expect to: If you cannot commit the time and/or you do not have the background to get an A in the course, you should do the best you can with all of the steps listed below. Be sure to talk with the instructor and join a study group before the first mid-term exam.

1. Attend all classes, take extensive notes during the class, and do well on the graded in-class exercises.
2. See the instructor well before the first midterm exam if you are having problems in the course.
3. Find a study group and work with them.
4. Read all assigned material. Master the vocabulary for each topic. Avoid “mindless” memorization (memorizing strings of words without any actual comprehension) as this will not help in this course.
5. Prepare for the mid-term exams by anticipating questions. Instructors generally give clues as to what they think are important concepts and they often give these clues in the first and final 5 minutes of the class. **But, if you come to class late or don’t engage your attention until after the initial 5 minutes, you can miss this information.**

BIOLOGY 1111: SCHEDULE

This schedule can be subject to change. Please consult Blackboard and attend lecture regularly for updates. Laboratory details will also be posted on Blackboard

All lectures may require some “flex” or “spill” time, which gives the instructor(s) additional time to cover the material for any section. The goal is to avoid grossly changing the syllabus because we fall slightly behind in the material covered in the course, which shows that the syllabus approximately indicates where and when new material is covered. Students are required to keep up with the posted schedule as much as they can. Even if the instructor gets behind, they will catch up and you do not want to be slammed.

Bio 1111 Schedule Spring 2017. *Can be Subject to Change. Please consult Blackboard and attend lecture regularly for updates. Lab Details are posted on Blackboard*

Date 2017	Topic	Lecture Reading Assignments	Lab
M Aug 28	Introduction; Evolution: evidence & patterns	Chapter 22	intro
W Aug 30	Natural Selection	Chapter 22	Microscope
F Sep 1	Evolutionary processes I	Chapter 23	Bacteria 1
M Sep 4	Labor Day NO CLASS		week 2
W Sep 6	Evolutionary processes II	Chapter 23	Bacteria 2
F Sep 8	Speciation	Chapter 24	
M Sep 11	Phylogeny, taxonomy and adaptive radiations	Chapter 26	week 3
W Sep 13	History of life on Earth and geologic time	Chapter 25	Protist Diversity
F Sep 15	History of life and extinctions	Chapter 25	
M Sep 18	Bacteria and Archaea	Chapter 27	week 4
W Sep 20	Protista	Chapter 28	Fungi Diversity
F Sep 22	Fungi	Chapter 31	nonvascular plants
M Sep 25	FIRST LECTURE EXAM	Chapters 22-26	week 5
W Sep 27	Green plants I	Chapter 29 & 30	Vascular Plants
F Sep 29	Green plants II	Chapter 30 & 35	
M Oct 2	Introduction to animals	Chapter 32	week 6
W Oct 4	Parazoans and radiates	Chapter 33	Lab Midterm
F Oct 6	Lophotrochozoans I	Chapter 33	
M Oct 9	Ecdyzoans I	Chapter 33	week 7
W Oct 11	Invertebrate Deuterostomes & Vertebrates I	Chapter 34	Animal Diversity I
F Oct 13	Vertebrates II	Chapter 34	
M Oct 16	SECOND LECTURE EXAM	Chapters 27-32 & 35	week 8
W Oct 18	Animal form and function & Homeostasis	Chapter 40	Animal Diversity II
F Oct 20	Animal Nutrition I	Chapter 41	
M Oct 23	Animal Nutrition II	Chapter 41	week 9
W Oct 25	Circulation & Gas Exchange I	Chapter 42	Animal Diversity III
F Oct 27	Circulation & Gas Exchange II	Chapter 42	
M Oct 30	Osmoregulation & Excretion I	Chapter 44	week 10
W Nov 1	Osmoregulation & Excretion II	Chapter 44	Vertebrate Anatomy 1
F Nov 3	Immune system I	Chapter 43	

M Nov 6	THIRD LECTURE EXAM	Chapters 32-34, 40-42	week 11
W Nov 8	Immune system II	Chapter 43	Vertebrate Anatomy 2
F Nov 10	Nervous system I	Chapter 48	
M Nov 13	Nervous system II, Endocrine system	Chapters 48-49, 45	week 12
W Nov 15	Animal reproduction, Animal Development I	Chapters 46-47	Development
F Nov 17	Animal Development II	Chapter 47	
M Nov 20-26	FALL BREAK NO CLASSES		
M Nov 27	Introduction to ecology	Chapter 52	week 13
W Nov 29	Community ecology I	Chapter 54	Final Lab Exam
F Dec 2	FOURTH LECTURE EXAM	Chapters 43-49	
F Dec 15 10:30	FINAL COMPREHENSIVE EXAM	All Chapters above	

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Prerequisites:

(Course or Test: CHEM 1031 | Minimum Grade of C | May not be taken concurrently.)

OR

(Course or Test: CHEM 1041 | Minimum Grade of C | May not be taken concurrently.)

OR

(Course or Test: CHEM 1951 | Minimum Grade of C | May not be taken concurrently.)

OR

(CHM1 Y - May not be taken concurrently.)

AND

(Course or Test: CHEM 1032 | Minimum Grade of C- | May be taken concurrently.)

OR

(Course or Test: CHEM 1042 | Minimum Grade of C- | May be taken concurrently.)

OR

(Course or Test: CHEM 1952 | Minimum Grade of C- | May be taken concurrently.)

