## **BIOL 1114 Introductory Biology – Spring 2017** Sections

Instructor:	My Office:
Dept. Office:	Phone:
Office Hours:	Email:

NATURE OF THE COURSE: This course introduces students to the integration between structure and function among all levels of biological organization. Students will learn to apply principles of evolution, genetics, physiology and ecology to understanding the integrated and interdependent nature of living systems through discussions that emphasize the process of science. Observation and investigation are emphasized in both lecture and lab.

OBJECTIVES: We want you to learn and be able to apply certain basic biological **concepts** and research **skills**. These are listed in a knowledge checklist that you can find on our website (see below). You can use this very detailed list as a study guide to help you keep track of what you need to know.

#### TEXTS: Required:

Connect eBook for Hoefnagels, M., 2015. Biology: Concepts and Investigations. 3<sup>rd</sup> edition. McGraw-Hill: NY. See link "Where do I get an ebook?" on http://biol1114.okstate.edu for instructions

French, D. 2016. Investigating Biology: A Laboratory Resource Manual. 2016 edition Fountainhead Press: Fort Worth.

1 pkg. 5x8" index cards, one side lined

Turning Technology Clicker: ResponseCard NXT (ISBN: 978-1-934931-45-5) or later model + Registration Journal of Introductory Biology Investigations (you will receive a free subscription to this).

### Recommended:

Pechenik, J.A. 2016. A Short Guide to Writing about Biology. 9th Edition. Pearson Longman Publishers: NY. This is an excellent companion to help you with writing lab reports. It explains in great detail what you should put where, how to describe your data, the format for your literature cited, suggestions for clearer writing, and many other important points. For those continuing on in science, this is a valuable reference discussing term papers, poster sessions, letters of application, research proposals and offering suggestions to help improve many other forms of written or oral communications.

ATTENDANCE: You are expected to attend both lab and lecture. Arrive on time and stay for the entire period. See the specific actions you must take for missing a lab or lecture exercise under Grading (below). In the event of University cancelation – check http://biol1114.okstate.edu for instructions regarding lab.

**EXAMS:** 

Four exams are scheduled: Three (3) before final exam week and one (1) during finals week. **The dates and** locations are noted on the attached schedule. We care about students who due to circumstances miss an exam. Students who miss an exam are typically under stress (e.g., personal or family tragedy, unavoidable personal obligation); therefore we developed a policy to avoid creating a more stressful situation for students. Please see our policy under Grading (below).

All exams cover both theory and lab experiences and are cumulative; e.g., questions on exam 3 will test material covered before exam 1 and 2. Exam questions typically require interpretation of data and application of concepts rather than rote memory. While emphasis will be placed on material specifically discussed in lecture, exams will also include questions covering other assigned materials and readings. Read all questions and answers carefully before choosing the single BEST response for each question. Feel free to ask the instructors present for clarification.

All exams are "in common," i.e., everyone taking this course this semester, regardless of instructor, takes the same exam at 5:30 PM on the same date as listed for each exam, but in a different room. Exams are usually NOT scheduled for the room where you attend lecture/theory. Be sure you know when and where to take your exams. Check the schedule in your syllabus early, if you have a conflict with another common exam or class at OSU-STW, let me know at least 2 weeks before the exam.

You must bring an orange NCS Answer Sheet (Available in the bookstore SKU: 03784), a #2 lead pencil, and your student ID to each exam.

To get credit for your exam, you must fill out the information on your answer sheet correctly - Put your O-Key Account Username in the boxes indicated for LAST NAME and darken the appropriate circles. Write your Name (Last, First) in the space above the boxes containing your O-Key Account Username. To indicate the form of the exam you are taking ("Star or Nostar" as marked on your test form), write S or N in the last column of the name boxes and darken the appropriate circle. Enter the number 171n (where n = 1, 2, 3, or 4, i.e. the exam number) and darken the corresponding circles in the first 4 columns of the "Student ID." Do NOT enter other information. Failure to perform this correctly will incur a -10pt handling fee.

GRADEBOOK: To see your exam and manuscript grades early, use the Personal Page link on http://biol1114.okstate.edu. Lab grades will be posted approximately one week after final reviews are returned to you. We use Brightspace (by D2L) as an electronic gradebook. All grades will be entered and visible there. You have 7 days from the posting of any grade to report a grade discrepancy to the appropriate instructor or it may not be changed.

DROP POLICY: See Catalog Registration & Records Section and dates on schedule.

### ACADEMIC INTEGRITY: Read details on page 3 below.

SPECIAL NEEDS:

If you have a documented disability and need special accommodations of any nature, I will work with you and the Office of Student Disability Services, 315 Student Union, to provide reasonable accommodations so that you have a fair opportunity to perform successfully in this class. Please let me know about any necessary accommodations by the end of the second week of class. If you have health related issues that may interfere with participation in certain labs (see materials list on Lab Resources and Institution Pages on the course website) you must provide documentation to your TA from the Office of Student Disabilities Services **no later** than 14 days prior to that week's Investigation so we can properly prepare accommodations.

THEORY: These meetings will combine mini-lectures, discussions, individual and group activities, multimedia presentations, and demonstrations to give you the opportunity to learn biological concepts in as active a manner as possible. Each segment of the course is structured around one or more scenarios - case studies or vignettes that can be interpreted or solved by applying selected biological concepts. You will have the opportunity to accumulate up to 60 points toward your final semester grade from individual or group activities or homework. There are no "make ups" for specific assignments (see Grading below). You may not earn credit for these if you are absent, do not submit assignments when it is collected, do not sign your own name on the assignment, do not put your group number on the assignment, do not have the assignment in the requested format, or do not bring your clicker (with working batteries) to class. It is your responsibility to insure that these are done correctly. No image, audio, or video recording is allowed without instructor permission.

 $LAB^1$ : This portion of the course is structured to offer you the most authentic research experience we could. You will work in teams as part of "scientific research institutions" under the guidance of lab mentors to answer questions you select. Each three-week long investigation is related to or inspired by research conducted by past or current OSU faculty or students when possible. You will design and conduct experiments, analyze and interpret results, and author reports (each week) in the form of manuscripts. You will submit your manuscripts to be reviewed by experts, who will provide feedback (and evaluation), and have the unique opportunity to have them published in the online Journal of Introductory Biology Investigations, https://undergradsciencejournals.okstate.edu/index.php/jibi, which was created for OSU students. You can add your articles to portfolios of your work to demonstrate your skills. Your results will be made available to researchers and future students to help them in their research. Additional details about lab are in the lab syllabus and Investigating Biology: A Laboratory Resource Manual.

GROUPS: Taking exams is an individual activity. Almost all other activities will involve your participation with other class members in a group. **Permanent** groups will be formed in the first week. Groups will produce weekly lab reports AND complete their lecture exercises collaboratively. **Peer evaluation** will affect your lab grade – See your lab manual for further information.

WEBSITE: A variety of materials are available on our website - http://biol1114.okstate.edu . These include exams from past semesters, study guides, flow charts, outlines, note-taking aids, a knowledge checklist, tutorials and scenario software. You will find the reading assignments for each scenario (lecture topics), and the computer-based planning forms here. You will need your O-Key Account Username and password. You will need to download web players for certain items to run. For help with the website email: zool-tech@okstate.edu or visit our technical support office (213 LSW).

LRC: LEARNING RESOURCES CENTER: Room 303 LSW is staffed by BIOL1114 instructors and open throughout the week (See the schedule on our website). Various materials there will help you understand lecture and lab – including all certification materials. The instructor on duty will happily help you prepare planning forms, interpret reviewer feedback, or study for tests. For help you can also email: biol1114@okstate.edu. Students who go there do better in this class!

SI SESSIONS: Supplemental Instruction sessions are interactive, group study meetings, led by former students who attend lecture. Students can join sessions whenever they are offered. You can learn more about SI on pg. 8 or at http://lasso.okstate.edu/si-info.

<sup>&</sup>lt;sup>1</sup> Development of these investigations is supported in part by a grant to Oklahoma State University from the Howard Hughes Medical Institute through its Science Education Program.

ACADEMIC INTEGRITY: Be sure that you have read and understand this policy, as the penalties for violations of Academic Integrity can be very serious. We follow the OSU policies on Academic Integrity (<a href="http://academicintegrity.okstate.edu/">http://academicintegrity.okstate.edu/</a>) and the Cheating & Plagiarism section (pp.G6 – G10) of your lab manual (French, D. 2016. Investigating Biology: A Laboratory Resource Manual 2016 Edition). A "first" offense (in this course or any other course during your time at OSU) will result in either a Level 1 (a "0" for the assignment) or Level 2 (an "F!" for the course) sanction as described in the OSU Academic Integrity Policy. A second violation (in this course or any other course during your time at OSU) may be upgraded to the next sanction level. <a href="https://academic.ourse.gov/">ALL violations and sanctions</a> become a part of a permanent educational record! In addition to the policies described in the above sources, some examples of violations of Academic Integrity more specific to this course include, but are not limited to, the following:



In addition to the policies described in the above sources, some examples of violations of Academic Integrity more specific to this course include, <u>but are not limited to, the following:</u>

- Using information from ANY source without properly <u>paraphrasing</u> (writing in your own words) <u>and citing</u>.
   Refer to Cheating & Plagiarism in the lab manual for details, explanations, and advice on avoiding improper uses of others work.
- Using any part of an unpublished manuscript without properly paraphrasing and citing, the permission of the original authors, and the permission of your mentor. This is <u>unauthorized collaboration or plagiarism</u>.
- **Falsifying authorship**, i.e. including as an author a student who did not adequately contribute to the production of a manuscript submitted for credit OR failing to include an author who did is considered **fabricating Information** by all authors on a manuscript. All authors who miss a part of a lab must have their contributions explained truthfully on the authorship form.
- Submitting in-class exercises with the names of members not present in class is considered <u>cheating</u> by <u>all group members</u> whose names appear on the exercise. Each member must write his/her own name on materials his/her group submits.
- Possessing a student response pad ("clicker") other than the one assigned to you is considered <u>unauthorized collaboration and cheating</u>.
- Misidentifying the exam version (star or no star) by indicating the incorrect version on the form or placing it in the alternate group for grading is considered **cheating**.
- Possessing a form of the exam during the examination period that is inconsistent with the assigned distribution of exams as indicated during the examination period is considered <u>unauthorized collaboration and cheating</u> by all affected individuals.
- Access to any electronic devices (e.g. cell phone, smartwatch, calculator, portable multimedia devices such as an iPod, minitablet, or electronic dictionaries) during an exam without explicit prior permission is considered <u>cheating.</u> All such devices must be turned off and out of sight and reach.
- Students who take a conflict exam may not possess a list of their answers, have copies of their exams, or communicate any information about the exam to other students, until after the normally scheduled exam is completed. To do so is considered unauthorized collaboration and cheating.



**Schedule** 4

## For textbook readings see <a href="http://bioweb-cfs.cas.okstate.edu/info/requiredreadings">http://bioweb-cfs.cas.okstate.edu/info/requiredreadings</a>

Date	Week	Scenario	Lab Topic		
Jan 16	M	MLK Holiday	– no classes		
Jan 16	1	1. Psychics and Scientists: A series of short scenarios will center on measurement of psychic phenomena, a faculty research question, a breath holding experiment, analysis of class score data, and what is a theory?	Introduction to Lab		
Jan 23	2	2. Surviving Fire and Ice: The scenario focuses on surviving in desert and tundra and adaptations for thermoregulation and water retention.	Planning Form and Manuscript writing		
Jan 30 3 3. Out of the Rain Fore terms of the action of a		3. Out of the Rain Forest: An aboriginal fishing expedition in the rain forest is explored in terms of the action of a toxin produced by plants. Pesticides, coevolution, cell membrane function and cell respiration will be discussed.	Investigation 1: Research in the Institute of Comparative Respiratory Research		
Feb 6	4	Out of the Rain Forest continued.	Investigation 1: Continued research		
Feb 13	M	EXAM #1 at 5:30 pm in [ROOM]-Topics for exams will be those from Scenarios 1-3			
Feb 13	5	4. Chemical Defenses: A Nigerian child eats a poisonous bean, which requires extraordinary treatment by the local physician, framing investigation of cell membrane structure, secretion, intercellular communication, and neurons.	Investigation 1: Final analysis & Submission		
Feb 20	6	5. Marooned in the Galapagos: This trip raises questions about what makes a species or organism successful. Attention to the physical character of these desert islands and animals living there highlights natural selection in action.	Investigation 2: Research in the Acme Brewing and Baking Company		
Feb 27	7	6. Rainbow Connection: A scuba diving botanist is sent by the Smithsonian to collect algae. Blood is spilled and the biological uses of colored light, including photosynthesis, are explored.	Investigation 2: Continued research		
Mar 6	8	Rainbow Connection - continued.	Investigation 2: Final analysis & Submission		
Mar 13	9	Spring Break – No Classes	NO LAB		
Mar 20	10	7. Emerging Diseases: On the Amazon we meet the Yanomami amidst a breaking TB epidemic, raising the roles of symbiosis, population dynamics and evolution in development of epidemics.	Investigation 3: Research in the Biofuels Research and Aquatic Quality Collaborative		
Mar 22	$\mathbf{W}$	EXAM #2 at 5:30 pm. in [ROOM]- Topics for exams will be those from Scenarios 1-6			
Mar 27	11	Emerging Diseases continued	Investigation 3: Continued research		
Apr 3	12	Family Reunion: A family reunion opens the door to talk about cancer, DNA, protein synthesis, genetically determined diseases and biotechnology.	Investigation 3: Final analysis & Submission		
Apr 10	13	Family Reunion - continued.	Investigation 4: Research in the Center for the Study of Sexual Selection in Fishes		
Apr 14	F	Last day to drop a class or withdraw from the University with an automatic "W"			
Apr 17	14	9. Hogs & Chickens: Statistics about concentrated animal feeding operations raise questions about nutrients in biogeochemical cycles, the effects of livestock and people on aquatic systems.	Investigation 4: Continued research		
Apr 17	M	EXAM #3 at 5:30 pm in [ROOM]- Topics for exams will be those from Scenarios 1-8			
Apr 24	15	10. Why We Care about Fat: our contemporary preoccupation with fat sets the scene for a discussion of fat metabolism, its genetic, nervous and hormonal control, and behavioral implications.	Investigation 4: Final analysis & Submission		
May 1	16	Why We Care about Fat continued.	Laboratory Final		
May 10	Wed	FINAL EXAM at 4:00 – 5:50 pm in [ROOM] Topics for exams will be those from All Scenarios	Note the Exam time!!!		

OSU's general syllabus information is found at

http://academicaffairs.okstate.edu/sites/default/files/Spring%202017%20Syllabus%20Attachment.pdf

Much information of value can be found at http://academicaffairs.okstate.edu/content/resources-students including:

Academic 911 - Don't Bail or Fail! Find the resources you need to succeed.

<u>Academic Forgiveness</u> - Find out if you qualify for an academic reprieve or renewal.

Academic Retention Criteria and Procedures – Includes procedure and policy for petition for reinstatement.

Adding, Dropping and Withdrawing from Courses - Information about adding/dropping courses, deadlines, retroactive drop/withdrawal.

Family Educational Rights and Privacy Act (FERPA) - Information about FERPA and frequently asked questions

Grade Appeal - Find out how to go through the grade appeal process, and the policies and procedures for filing a grade appeal.

Policy and Procedures Letter 2-0217: Attendance Policy for Students - If not stated on the syllabus.

Student Computing Systems - Explains the uses of the O-Key, SIS, and D2L computer systems for students.

Title IX Training - Information about required Title IX Training

For more detailed information on these as well as other OSU policies, please visit the OSU Policies and Procedures page.

GRADING: 5

Component	Format	Available Points	Maximum Points allowed	Notes
Lecture Activities	1-5 pt. quizzes/ homework	About 70	60	Can earn only 60 pts in this category
Exam 1	40 questions worth 2 points each	80	80	All exams are cumulative; Each tests over ALL material covered previously.
Exam 2	40 questions worth 3 points each	120	120	•
Exam 3	40 questions worth 3 points each	120	120	
Final Exam	70 questions worth 3 points each	210	210	
Lecture	Subtotal:	About 600	590	Can only earn 590 points in the lecture portion
Planning form	Weekly write-up	Required for entry into lab	-	Must be turned in by 5:00 pm the day before lab.
Manuscripts	Weekly reports, final submission worth 100 points each	400	400	Must be turned in BEFORE you leave lab.
Lab Final	Multiple choice, short answer, essay	50	50	40 points serve as "disaster insurance"
Lab	Subtotal:	450	410*	Can only earn 410 points in the lab portion
	TOTAL:	Approximately 1,050	1,000	

<sup>\*</sup> Note: Lab grades are adjusted by peer evaluations; please see your lab manual and lab syllabus for details.

What do you do if you miss an exam? If for <u>ANY</u> reason you miss any of the first three exams, <u>and notify me</u> within a week, the entire final exam will be used to determine a substitute grade for the missed exam. If for <u>ANY</u> reason you (will) miss the final exam and <u>notify me no later than 24 hours after the exam</u>, the grade of "I" will be assigned if you are passing the course at that point. You may remove the "I" by taking the final exam for BIOL 1114 when it is offered in one of the 2 following semesters, i.e., in Summer or Fall 2017. If you miss the final exam and do not notify me, you will be assigned a "0" for the final exam grade. Exceptions for the final exam will require approval of the Dean of Arts & Sciences.

### What do you do if you miss an in-class exercise or homework assignment?

Specific exercises or assignments cannot be made up or submitted late. However, there will be about 70 points offered, although only 60 points will be used in calculating your grade. This way, you can accumulate points even if you have not properly submitted one of these when it is due for <u>ANY</u> reason. Use every opportunity early and throughout the semester to complete these activities to be sure you will have 60 points by the end of the semester.

What do you do if you miss a lab? Since your work is a team effort, if you are absent from ANY part of a lab period for ANY reason, your co-authors (team members + mentor) will determine the extra contribution you must make to compensate for each absence. If you do not accomplish what is specified, you will lose 1/3 of the manuscript score for each absence. We are not judging the legitimacy or nature of the excuse for being absent, just whether you have contributed appropriately to the final products. The minimum recommended alternative contribution to a manuscript for each absence of any kind (which is what is expected if no alternative is specified) is 5 pages of literature review (see lab manual for format) to be included in the introduction or discussion when the manuscript is submitted to JIBI. The review should be based on a minimum of 5 reference sources from peer-reviewed science journals, not including JIBI or found in the lab manual or on the BIOL 1114 website. Your team must explicitly describe your extra contribution as part of the authorship form you must submit with each final manuscript. In addition, you will have the opportunity to earn up to 40 extra points on the lab final, which can be applied to absences.

In the event of University cancelation – check http://biol1114.okstate.edu for instructions regarding lab.

#### Grading Scale 90 to 100% 900 to 1000 points Α 800 to 899 points В 80 to 89.9% C 70 to 79.9% 700 to 799 points D 60 to 69.9% 600 to 699 points F 0 to 599 points < 60%

Common Themes 6

The emphasis in this course is on your seeing biological principles in a context so that you can learn to apply the concepts in a novel situation. There are several common themes, threads or principles that we feel are important enough to repeat in various contexts. These include:

- I. "Scientific Method" or your ability to state a hypothesis, design an experiment, and interpret data.
- II. **Surface-to-Volume ratio**. This ratio is fine-tuned by natural or artificial selection so that an optimum ratio is achieved that maximizes or minimizes (as needed) the rate at which some material or energy is gained or lost.
- III. **Gradients** Living things create or respond to these differences in concentration or amount of a substance over some area. You need to know how gradients are created in certain instances and/or what occurs when the gradient is present or absent.
- IV. **Laws of Thermodynamics**. You need to know the rules that apply to energy and its transfer. You need to know what phenomena these laws help explain and how they help shape our understanding of how chemical reactions can be related to each other.
- V. **Protein structure and function and their use in membranes**. You need to know what effect changing a protein's shape has on the protein and what controls change. You need to know what functions proteins serve when they are positioned in membranes and how these functions are achieved.
- VI. **Natural Selection.** You need to be able to explain how this process leads to any adaptation, to explain its action and result in every scenario, and how fitness is involved. You need to understand and identify trade-offs in the costs and benefits that exist in every adaptation, structure or function.
- VII. **Homeostasis** Living systems must maintain a constant internal environment between limits or to return things to normal following disturbance. You need to recognize where that happens in our investigations.
- VIII. **Metabolism** Chemical and energy transformations appear in several scenarios and are an essential characteristic of all living things. You need to know where and when this is applied and discussed. You need to understand the metabolic processes we discuss.
- IX. **Inputs and Outputs**. This is not a principle, but it is a recurring theme in our discussions. You need to know what is the result or product of certain processes or reactions. You need to identify or predict the starting ingredients, conditions or reactants when a process or reaction occurs. We frequently will ask you to explain or list these.
- X. **Interfering with the System**. This too is a recurring theme in our discussions what would happen if some system or process were broken or blocked? What would not happen?

This list should help you in studying; we hope it does. It is not meant to be all-inclusive or tremendously detailed. There may be themes you will see that we have not listed. You should however recognize the items discussed and understand how they provide answers to the types of questions we ask. An extensive list of what you should know or be able to do is available on <a href="http://biol1114.okstate.edu">http://biol1114.okstate.edu</a> under the link <a href="https://biolube.com/what do I have to know?">What do I have to know?</a> You should use that as a **study guide** when reviewing after every class and for each exam.

We hope you will enjoy working through the different scenarios and that you will learn from doing so. We wish you success in this course. Don't hesitate to call on any of us for help, or to provide constructive feedback on the course.

-The BIOL 1114 Faculty

# Self-Assessment of Study/Learning Skills, Techniques & Habits

	I viewed or attended a "How to Study Smarter not Harder" session.
	I attend every class meeting.
	I come to class prepared.
	o I review the previous lecture.
	o I have my clicker and other needed materials out and ready.
	o I have completed my out of class assignments.
	o I have questions to ask that I have already attempted to answer.
	I participate in class.
	o I enter my answer every time a "clicker" question is presented.
	o I perform the in-class exercises and do not just wait to be told an answer.
	o I contribute to the discussion in my group whenever we are performing an activity.
	o I allow and encourage others in my group to contribute to discussions.
	o I avoid texting, social media, or off-task internet use during class.
	I take and use good notes from lectures.
	o I use the Cornell ( <a href="http://www.uwec.edu/ASC/resources/upload/Cornell-Note-Taking-System.pdf">http://www.uwec.edu/ASC/resources/upload/Cornell-Note-Taking-System.pdf</a> ) or similar method for recording,
	structuring, and analyzing notes.
	<ul> <li>I compare my notes to those of other students to fill in gaps and verify accuracy.</li> </ul>
	I spend 6 hours a week engaged in <u>quality</u> study time for this course.
	☐ I study in an environment without distraction.
	o no one interrupting me
	o no social media access (FB, twitter, snapchat, Instagram, etc.) OR texting (reading or responding)
	o no entertainment media (TV, Netflix, YouTube, Hulu, music I sing to, etc.)
	☐ I use study techniques that research shows improve performance.
	<ul> <li>I write summaries of notes, text, videos, etc., <u>from memory</u>, repeatedly.</li> </ul>
	o I diagram processes I am studying <u>from memory</u> , repeatedly.
	o I interleave my studying of different topics (I alternate what I practice recalling).
	I use the resources available to me.
_	o I use the portions of the textbook that address the questions I have.
	o I review the knowledge checklist on the course website.
	<ul> <li>I view and take notes on the reviewvies that address the questions I have.</li> </ul>
	o I fill out the handouts and note organizers found on the course website.
	o I talk through the flowcharts found on the course website.
	I use the practice exams regularly.  I use the practice exams properly to assess my knowledge and skills.
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	o I select and complete each exam in under 50 minutes, before submitting it.
	o I review each question I answered incorrectly so I can explain what is wrong about the answer I chose and why the
	correct answer is correct.  o I review any question in which I was not <u>confident</u> in my choice so I can explain what is wrong about the answer I
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	chose and why the correct answer is correct.
	O I use the data provided  D I study notes in a timely and appropriate feeling.
	☐ I study notes in a timely and appropriate fashion.
	o I review my notes within 12 (at most 24) hours of taking them.
	o I review my notes again before the next lecture.
	o I reorganize my notes into tables, charts, lists, diagrams.
	o I write questions in my notes and seek answers 1) in textbook 2) on website 3) in class.
	☐ I am deliberate in all my studying.
	o I think about how each knowledge item fits into the overall picture.
	I think about how to apply each knowledge item.
	o I don't just memorize each step in a process, I think about the role of each and how they are interrelated.
	<ul> <li>I determine my areas of weakness and focus my studying efforts on them.</li> </ul>

## **Supplemental Instruction (SI)**

Supplemental Instruction (SI) study sessions are being offered to students enrolled in this course this semester. SI sessions will be held three (3) times per week throughout the semester and students can attend sessions anytime they are offered. SI sessions are interactive, peer-led, group study opportunities facilitated by an SI Leader. Weekly SI sessions focus on engaging students in reviewing current course material, strengthening students' understanding of key course concepts, developing and practicing innovative learning strategies, and preparing for course exams.

The SI Leaders in this class are students who have already successfully completed this course and mastered the course material. In addition to facilitating SI sessions, your SI Leader(s) attend lecture weekly to serve as an inclass resource for you and hold weekly office hours in the Academic Development Center (second floor of Kerr-Drummond Mezzanine) to help address any questions you have about course content.

## Why should you attend SI?

- 1. On average, students who regularly attended SI last spring <u>earned higher final course grades</u> than students who did not attend SI.
- 2. Students who regularly attended SI last spring <u>successfully completed the course at a higher rate</u> than students who did not attend SI.
- 3. SI is <u>open</u> to everyone taking this course, it's <u>voluntary</u>, and it's <u>completely FREE!</u>

## What should I expect in an SI session?

- 1. Your SI Leader will act as a facilitator. Your Leader won't re-lecture the current week's material, but will get you and your fellow students actively engaged in working through key concepts using creative, proven study methods.
- 2. You and your classmates will work together to find solutions to problems and will help each other gain a better understanding of challenging class material.
- 3. An SI session is a "no pressure" zone. Your SI Leader is a near-peer who has been where you are now. Your Leader isn't a TA and has no access to or influence over your course grades. SI sessions are a time to ask questions in an open environment. There's no need to feel nervous. You're all there to improve and help each other out.
- 4. You'll get the most out of each session by coming prepared. Bring your textbooks, your reading and lecture notes, and your questions.

Your SI Leader(s) will poll the class during the first week of lecture to identify the SI session times that will work best for members of the class. SI sessions will start during the second week of class. Your SI Leader(s) will announce session days and times.

You can find out more information about SI for this class by visiting: <a href="http://lasso.okstate.edu/si-info">http://lasso.okstate.edu/si-info</a>.

## **Student Information Sheet**

**Spring 2017** 

You are required to sign and return this sheet to me, acknowledging that you have been provided the syllabus. NAME (PRINT) Section \_\_\_\_\_ I acknowledge that I have received and am responsible for the material in the class syllabus and that I will abide by the class policies, including those in the BIOL 1114 specific Academic Integrity Policy Statement. NAME (SIGNATURE)

Please check EACH box below: ☐ I will come to lab & lecture prepared to work with my group ☐ I will participate with my group and allow other members to participate ☐ I will evaluate my group members fairly and accept their evaluations of me. ☐ I will properly **paraphrase** (write in my own words) **and cite** all information that I use from **ANY** source in my groups' manuscript. Failure to do this is **plagiarism** ☐ I will properly paraphrase and cite, obtain the permission of the original authors, and obtain the permission of my mentor when I use any part of an unpublished manuscript. Failure to do so is unauthorized collaboration or plagiarism. ☐ I will include as authors all and only students who contribute adequately to the production of a manuscript submitted for credit. Failure to do so would be **falsifying authorship** and would be considered fabricating information by all authors on a manuscript. All authors who miss a part of a lab must have their contributions explained truthfully on the authorship form. ☐ I will only include on in-class exercises the names of those members of my group who participated in completing the exercise. Including the names of others is considered **cheating** by all group members whose names appear on the exercise. Each member of a group must write his/her own name on materials submitted by the group. ☐ I will possess only a student response pad ("clicker") that is registered to me. To possess a clicker belonging to another student is considered unauthorized collaboration and cheating. ☐ I will not misidentify the exam version (star or no star) by indicating the incorrect version on the form or placing it in the alternate group for grading. To do so is considered **cheating**. ☐ I will not possess a form of the exam during the examination period that is inconsistent with the assigned distribution of exams as indicated during the examination period. This is considered unauthorized collaboration and cheating by all affected individuals. ☐ I will not access any electronic devices (for example smartphone, cell phone, smart watch, calculator, portable multimedia devices such as an iPod, electronic dictionaries) during an exam without explicit prior permission. This is considered **cheating.** All such devices must be turned off and out of sight or reach. ☐ If I take a conflict exam, I will not possess a list of answers, have copies of exams, or communicate any information about the exam to other students, until after the normally scheduled exam is completed. To do so is considered unauthorized collaboration and cheating.