

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

Complete 1a – 1f & 2a – 2c. Fill out the remainder of the form as applicable for items being changed.

1. General Information.					
a. Submitted by the College of: <u>A & S</u>		Today's Date: <u>February 2, 2010</u>			
b. Department/Division: <u>Biology</u>					
c. Is there a change in "ownership" of the course?		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
If YES, what college/department will offer the course instead? _____					
d. What type of change is being proposed? <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor ¹ (place cursor here for minor change definition)					
e. Contact Person Name: <u>Ruth E. Beattie</u>		Email: <u>rebeat1@uky.edu</u>		Phone: <u>257-7647</u>	
f. Requested Effective Date: <input type="checkbox"/> Semester Following Approval		OR <input checked="" type="checkbox"/> Specific Term ² : <u>Fall 2010</u>			
2. Designation and Description of Proposed Course.					
a. Current Prefix and Number: <u>BIO 350</u>		Proposed Prefix & Number: <u>no change</u>			
b. Full Title: <u>Animal Physiology</u>		Proposed Title: <u>No change</u>			
c. Current Transcript Title (if full title is more than 40 characters): _____					
Proposed Transcript Title (if full title is more than 40 characters): _____					
d. Current Cross-listing: <input checked="" type="checkbox"/> N/A		OR Currently ³ Cross-listed with (Prefix & Number): _____			
Proposed – <input type="checkbox"/> ADD ³ Cross-listing (Prefix & Number): _____					
Proposed – <input type="checkbox"/> REMOVE ^{3,4} Cross-listing (Prefix & Number): _____					
e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours ⁵ for each meeting pattern type.					
Current:	<u>3</u> Lecture	_____ Laboratory ⁵	<u>2</u> Recitation	_____ Discussion	_____ Indep. Study
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research	_____ Residency
	_____ Seminar	_____ Studio	_____ Other – Please explain: _____		
Proposed:	<u>3</u> Lecture	<u>3</u> Laboratory	_____ Recitation	_____ Discussion	_____ Indep. Study
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research	_____ Residency
	_____ Seminar	_____ Studio	_____ Other – Please explain: _____		
f. Current Grading System: <input checked="" type="checkbox"/> Letter (A, B, C, etc.) <input type="checkbox"/> Pass/Fail					

Ofc of the Senate Co... 7/14/09 11:15 AM
Comment: Excerpt from SR 3.3.0.G.2
Definition: A request may be considered a minor change if it meets one of the following criteria:
 a. change in number within the same hundred series⁵;
 b. editorial change in the course title or description which does not imply change in content or emphasis;
 c. a change in prerequisite(s) which does not imply change in content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s); d. a cross-listing of a course under conditions set forth in SR 3.3.0.F;
 e. correction of typographical errors.
⁵...for the specific purposes of the minor exception rule, the 600-799 courses are the same "hundred series," as long as the other minor change requirements are complied with. [RC 1/15/09]

¹ See comment description regarding minor course change. *Minor changes are sent directly from dean's office to Senate Council Chair.* If Chair deems the change as "not minor," the form will be sent to appropriate academic Council for normal processing and contact person is informed.
² Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.
³ Signature of the chair of the cross-listing department is required on the Signature Routing Log.
⁴ Removing a cross-listing does not drop the other course – it merely unlinks the two courses.
⁵ Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting generally represents at least two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.)

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

Proposed Grading System: <input checked="" type="checkbox"/> Letter (A, B, C, etc.) <input type="checkbox"/> Pass/Fail	
g. Current number of credit hours: 4	Proposed number of credit hours: <u>no change</u>
h. Currently, is this course repeatable for additional credit?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Proposed to be repeatable for additional credit?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
If YES: Maximum number of credit hours: _____	
If YES: Will this course allow multiple registrations during the same semester?	YES <input type="checkbox"/> NO <input type="checkbox"/>
i. Current Course Description for Bulletin:	<u>An introduction to the basic principles of animal physiology. An elementary discussion of the major vertebrate organ systems including nutrition, metabolism, respiration, circulation, excretion, muscle contraction, peripheral and central nervous system, and endocrine function emphasizing homeostasis. Lecture 3 hours, demonstration 2 hours.</u>
Proposed Course Description for Bulletin:	<u>An introduction to the basic principles of animal physiology. An elementary discussion of the major vertebrate organ systems including nutrition, metabolism, respiration, circulation, excretion, muscle contraction, peripheral and central nervous system, and endocrine function emphasizing homeostasis. Lecture 3 hours, laboratory 3 hours</u>
j. Current Prerequisites, if any:	<u>BIO 150 - 153 or equivalent, BIO 315, CHE 105 and CHE 107</u>
Proposed Prerequisites, if any:	<u>BIO 150 - 153 or equivalent introductory biology sequence, BIO 315, CHE 105, CHE 107</u>
k. Current Distance Learning(DL) Status:	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Already approved for DL* <input type="checkbox"/> Please Add ⁶ <input type="checkbox"/> Please Drop
*If already approved for DL, the Distance Learning Form must also be submitted <u>unless</u> the department affirms (by checking this box <input type="checkbox"/>) that the proposed changes do not affect DL delivery.	
l. Current Supplementary Teaching Component, if any:	<input type="checkbox"/> Community-Based Experience <input type="checkbox"/> Service Learning <input type="checkbox"/> Both
Proposed Supplementary Teaching Component:	<input type="checkbox"/> Community-Based Experience <input type="checkbox"/> Service Learning <input type="checkbox"/> Both
3. Currently, is this course taught off campus?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Proposed to be taught off campus?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
4. Are significant changes in content/teaching objectives of the course being proposed?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
If YES, explain and offer brief rationale:	
<u>The course will include an embedded laboratory experience. This replaces an embedded recitation experience. This revision was made as a result of a comprehensive review and revision of the current biology undergraduate program and also in response to feedback on the most recent Departmental review. The inclusion of the laboratory component will enhance the current course. Students will develop practical laboratory skills and will apply those skills to knowledge learned in the classroom to address a biological problem.</u>	
5. Course Relationship to Program(s).	
a. Are there other depts and/or pgms that could be affected by the proposed change?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
If YES, identify the depts. and/or pgms: <u>BIO 350 is a required course in the BS and BA in Biology programs, This course change does not change any of the degree requirements for either program</u>	

⁶ You must also submit the Distance Learning Form in order for the course to be considered for DL delivery.

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

This course is an option in both the BS in Agricultural Biotechnology program and in the BA in Secondary Education (science option.). Both programs have been informed of the change in this course. This change in course format does not impact these programs - see e-mails that follow:

RE: Change in Biology course

Jones, Larry

You replied on 2/2/2010 5:55 PM.

Sent: Tuesday, February 02, 2010 5:19 PM

To: Beattie, Ruth E

Cc: Dwyer, Roberta M; Howe, Daniel K

Ruth, our Ag Biotech program (Dr. Howe) and Pre-Vet (Dr. Dwyer) are ok with the change in format for BIO 350. Proceed from our perspective. Thanks for keeping us in the loop.

-----Original Message-----

From: Beattie, Ruth E

Sent: Tuesday, February 02, 2010 1:25 PM

To: Jones, Larry

Subject: RE: Change in Biology course

I am following up on an e-mail I sent last fall regarding a change in format in the BIO 350, Animal Physiology, course. As this course is an option in one of your College programs, I am required to solicit feedback regarding the impact this change will have on your program.

Could you send me an e-mail indicating whether there are any issues with this change.

REB

Ruth E. Beattie

Director of Undergraduate Studies

Associate Professor

Dept. of Biology

University of Kentucky

Lexington, KY 40506

E-mail: rebeat1@uky.edu

Telephone: 859-257-7647

Fax: 859-257-1717

From: Beattie, Ruth E

Sent: Tuesday, November 10, 2009 4:07 PM

To: Jones, Larry

Subject: Change in Biology course

Associate Dean Jones,

The Department of Biology is in the process of revising the curriculum and some of the biology courses.

One of the courses we are revising is BIO 350 Animal Physiology which is an option for the BS in Ag. Biotechnology program.

We are removing the 2 contact hour recitation from the course and replacing it with a three contact hour lab.

The course will remain a 4 credit hour course (3 lecture + 3 lab contact hours). I have attached a copy of the new

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

syllabus.

This e-mail is to inform you of this course change and to ascertain if there are any problems for the Ag. Biotech. program because of this change.

REB

Ruth E. Beattie
Director of Undergraduate Studies
Associate Professor
Dept. of Biology
University of Kentucky
Lexington, KY 40506
E-mail: rebeat1@uky.edu<<mailto:rebeat1@uky.edu>>
Telephone: 859-257-7647
Fax: 859-257-1717

RE: Changes in BIO 350 - feedback requested
Sandidge, Rosetta
You replied on 2/2/2010 5:55 PM.
Sent: Tuesday, February 02, 2010 5:01 PM
To: Beattie, Ruth E
Cc: Bouwma-Gearhart, Jana L; Schroeder, Gary

Hi Dr. Beattie,
I have checked with our secondary science education faculty, and they are okay with the BIO 350 change. Thank you for letting us know about the impending course change.

Best,
Rosetta

Rosetta F. Sandidge, Ed.D.
Associate Dean for Academic and Student Services
College of Education
University of Kentucky
166 Taylor Education Building
Lexington, KY 40506-0001
Phone: 859-257-8847
FAX: 859-323-3887
URL: www.uky.edu/Education

-----Original Message-----

From: Beattie, Ruth E
Sent: Tuesday, February 02, 2010 1:30 PM
To: Sandidge, Rosetta
Subject: RE: Changes in BIO 350 - feedback requested

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

Associate Dean Sandidge.

I am following up on an e-mail I sent last fall regarding a change in format in the BIO 350, Animal Physiology, course. As this course is a recommended course in one of your College programs, I am required to solicit feedback regarding the impact this change will have on your program.

Could you send me an e-mail indicating whether there are any issues with this change.

REB

Ruth E. Beattie
Director of Undergraduate Studies
Associate Professor
Dept. of Biology
University of Kentucky
Lexington, KY 40506
E-mail: rebeat1@uky.edu
Telephone: 859-257-7647
Fax: 859-257-1717

From: Beattie, Ruth E
Sent: Tuesday, November 10, 2009 4:12 PM
To: rosetta.sandidge@uky.edu
Subject:

Associate Dean Sandidge

As you know from past e-mails, the Department of Biology is in the process of revising the biology curriculum. In addition to overhauling the introductory biology sequence we are also making some changes to our core courses.

One of the courses we are revising is BIO 350 Animal Physiology, which is a recommended course for the BA in Secondary Education (Biology option).

We are removing the 2 contact-hour recitation from the course and replacing it with a three contact-hour embedded lab.

The course will remain a 4 credit hour course (3 lecture + 3 lab contact-hours). I have attached a copy of the new syllabus.

This e-mail is to inform you of this course change and to ascertain if there are any problems for the Secondary Ed. program because of this change.

REB

Ruth E. Beattie
Director of Undergraduate Studies
Associate Professor
Dept. of Biology
University of Kentucky
Lexington, KY 40506
E-mail: rebeat1@uky.edu<mailto:rebeat1@uky.edu>

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

Telephone: 859-257-7647

Fax: 859-257-1717

b. Will modifying this course result in a new requirement⁷ for ANY program?

YES

NO

If YES⁷, list the program(s) here: _____

6. Information to be Placed on Syllabus.

a.

Check box if
changed to
400G or 500.

if changed to 400G- or 500-level course you must send in a syllabus and *you must include the differentiation* between undergraduate and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different grading criteria in the course for graduate students. (See SR 3.1.4.)

⁷ In order to change a program, a program change form must also be submitted.

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

Signature Routing Log

General Information:

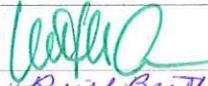
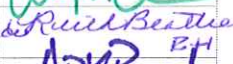

Course Prefix and Number: BIO 350

Proposal Contact Person Name: Ruth E. Beattie Phone: 257-7647 Email: rebeat1@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Biology Faculty	April 10 2009	Dr. Vincent Cassone / 257-6766 / vincent.cassone@uky.edu	
EPC	2/19/10	Ruth Beattie / 7-7647 rebeat1@uky.edu	
A+S Assoc Dean	2/19/10	Anna R. K. Bosch / 7-6689 boscha@uky.edu	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁸
Undergraduate Council	4/27/2010		
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

⁸ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

Bio 350, Animal Physiology FALL 2010

Class Time and Location: TBA

Instructor: Dr. Robin Cooper
226 T.H Morgan Building
Rlcoop1@uky.edu
257-5950

Office Hours: TBA

Texts:

Lecture: *Animal Physiology* (5th Edition) by Randall, Burggren, and French
Lab: Customized lab manual

In this course you will gain knowledge of and an appreciation for the amazing diversity of strategies animals have developed for being able to survive, reproduce, and THRIVE in every ecosystem on this planet. Penguins survive beautifully in Antarctica, but humans can only survive there using extraordinary measures - we would die within minutes if left naked on the shelf. You will learn WHY penguins survive and we cannot; why some people are diabetic, and how insulin can control this disease. You will also find out what happens to your body during exams (sure - stress, but what IS stress and why is it sometimes very useful, other times, deadly?). You'll be able to amaze your friends, your parents, your employers with your grasp and knowledge of the intricacies of animal physiology, why starfish 'explode' if placed in freshwater, what commonalities we share with whales, and much more. So, get 'psyched' and get ready to work! There is a lot to learn, but if you keep at it consistently, you'll keep your stress levels down and enjoy the course.

One way of defining life is by the living organism's ability to maintain an internal environment which is different from the external environment. Furthermore, living organisms maintain a relatively constant internal environment in spite of the changing external environment. This phenomenon was first clearly described by the great French physiologist Claude Bernard. The object of this course will be for you to learn how various organ systems function to bring about a relatively stable internal environment. To fully understand how organs accomplish homeostasis you must be able to apply the basic principles of mathematics, chemistry, physics and biochemistry.

Your understanding of homeostasis and the underlying principles will be tested four times during the semester. Each examination may consist of multiple choice, true/false, short answer and/or essay questions. Each of the first 3 examinations will be worth 100 points. The fourth exam will include a comprehensive section and a section on material covered since the last exam. This fourth exam is worth 150 points. There will only be one make-up exam if one of the other exams is missed. The make-up will take place immediately after the fourth exam during the second hour of the two hours allotted during the final exam period. The makeup will be a comprehensive exam covering the material during the entire course.

There is a mandatory laboratory component to this course. In the laboratory you will develop some practical laboratory skills and then apply those skills to knowledge learned in the classroom to address a biological problem. You will be expected to turn in written answers to questions related to the exercises at the beginning of the laboratory meeting and/or you will have quizzes related to the laboratory exercises. Attendance will be taken at each laboratory session. The fraction of the laboratory grade for the course will equal 40 percent (the total points from assignments, attendance and formal laboratory write ups will be normalized to 40 %).

Outside classroom assignments will include looking up content and planning for the weekly laboratory exercises. Working up your data (graphing, making power points, tables) for presentation is expected to be done outside of classroom time.

The laboratory sessions are broken up into sections of 24 students. The laboratory is a 3 hour block of time once per week. Any student who misses their assigned laboratory time is encouraged to make up the time in another section within the same week. This can only happen with consent of the instructor (not the TA). There are no times to make up laboratory exercises that are missed after the week of a particular exercise has passed. For excused absences, additional assignments (for example, a literature review on the topic of the week missed) will be given.

Learning Outcomes: By the end of the course the students should be able to

- 1) Discuss the fundamental principles of animal physiology;
- 2) Describe how these principles are incorporated into the adaptations of different animal groups;
- 3) Investigate physiological questions, and collect, analyze, interpret, and report experimental data;
- 4) Read and review published primary physiology literature and incorporate it into your knowledge."

GRADES

Lecture

There will be a total of approximately 450 points in the lecture part of the course: 100 pts for Exam 1, 100 points for Exam 2, 100 points for exam 3 and 150 points for Exam 4. This will be normalized to equal 60% of the grade.

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Exam 4	150 points
Total 450 points normalized to equal 60% of the course grade	

Laboratory

There will be two formal individual write ups required. These are to be prepared as for submission to a journal for publication. We will follow the format of the Comparative Biochemistry and Physiology-A (see [www site: http://www.elsevier.com/wps/find/journaldescription.cws_home/525464/authorinstructions](http://www.elsevier.com/wps/find/journaldescription.cws_home/525464/authorinstructions)). Each student (with their lab partner) will give two oral presentations on selected exercises/topics (details will be given in class). There are two exams (midterm and final) that cover the material related primarily to the laboratory exercises but may also contain concepts and details covered in lecture. There is a total of 1000 points for the laboratory which will be normalized to 40% of the total course grade.

Formal write up. 150 points each (2 required for a total of 300 points)	Total 300 points
2 presentations each worth 200 points (graded also in the ability to field questions)	Total 400 points
Two exams (midterm and final, each worth 100 points).	Total 200 points
Team effort/participation (TA will take weekly notes on your performance)	<u>Total 100 points</u>
	Total 1,000 points

The total of 1000 points for the laboratory will be normalized to equal 40% of the total course grade.

A portion (5 – 20% of activity score - depending on activity) of team work/ team presentations will be graded through peer review. Each team member will explain the involvement of each member of his/her team in the project and will assess the contribution of each team member to the final product. This encourages balanced and active participation and contribution by all team members.

Grade Calculated Percentage Points

- A 100-90.0
- B 89.9-80.0
- C 79.9-70.0
- D 69.9-60.0
- E 59.9 or lower

*This grading scale is based on expected performance. However, I reserve the right to make any necessary changes to the grading scale based on the final grade distribution.

UNIVERSITY POLICY ON EXCUSED AND UNEXCUSED ABSENCES

The following are acceptable reasons for excused absences:

1. serious illness of student (doctor's note required)
2. illness or death of family member (doctor's note required)
3. University - related trips (such as to a football game for a team member or band member, official note required)
4. Major religious holidays. Students MUST notify instructor IN WRITING of all such holidays to assure being excused.

ABSENCE FROM RECITATION, MISSED HOMEWORK ASSIGNMENTS

If you miss a recitation, or fail to hand in your homework at the beginning of class each week, you will lose the points associated with these. If you want credit for these omissions, you must contact your TA within three calendar days of the omission and present your TA with a doctor's note within 3 calendar days of the omission. If you missed the recitation or did not hand in your homework on time due to reasons other than illness, assignment of credit is at the discretion of the TA. You will find that it is in your best interest to hand in homework assignments, even if late, although you may not receive credit for them.

MAKE-UP EXAMS

If you miss an EXAM #1, 2 or 3, you will have to make up the missed exam in the hour immediately following the 1st hour of Exam #4. These make-ups will be comprehensive over the entire textbook.

If you miss two exams you will be encouraged to take an incomplete in the course.

In all cases, you must present a doctor's note, or other (as outlined above) to the instructors within 3 calendar days of missing any exam.

There is no make-up exam for EXAM #4 (Final). If you miss the final, you will not be able to take an incomplete in the course without discussing with us the reasons for missing the exam, and then filling out and signing an incomplete form with the department. If we feel an incomplete is warranted, we will determine the conditions necessary to satisfy the incomplete at that time.

REGRADING EXAMS

We are happy to fix any errors or irregularities in grades. If you feel that there was an error in grading your exam, you must submit your request in writing, detailing which questions you feel are in error and why your answer(s) should receive additional credit. For instance, if there is information in the text book that supports your answer, quote the information from the book and provide the page and paragraph number. All requests must be submitted within 1 week of posting of the answer key in order for the scores to be changed.

Disabilities: If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

*****A Note Concerning Academic Offenses (READ THIS INFORMATION CAREFULLY)**

PLAGIARISM and CHEATING are serious academic offenses.

The following is an excerpt taken from the "*Students Rights and Responsibilities Handbook, University of Kentucky*" regarding cheating.

"Cheating is defined by its general usage. It includes, but is not limited to, the wrongful giving, taking, or presenting any information or material by a student with the intent of aiding himself/herself or another on any academic work which is considered in any way in the determination of the final grade."

The following is an excerpt taken from the "*Students Rights and Responsibilities Handbook, University of Kentucky*" regarding plagiarism.

"All academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression."

*When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgment of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work..... If the words of someone else are used, the student **MUST** put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic."*

Charges of an academic offense will be made against any student that cheats or commits plagiarism. Penalties for such an offense will be assessed according to University Regulations regarding Academic Offenses. The most severe penalties include suspension or dismissal from the University. **I have a zero-tolerance policy regarding academic offenses.**

NOTE* In addition to the circumstances listed above, the following activities are considered evidence of cheating:

- 1) **Any talking** to another student during an examination.
- 2) **Looking** at another students work during an examination, or **allowing** another student to look at your work.
- 3) **Use of a cell phone or any electronic device during an examination** (this includes receiving calls). All cell phones and electronic devices **MUST** be turned off and put away during an examination period. They must not be turned back on again until after exiting the examination room.
- 4) **Collaborating with another student on a homework assignment and/or submitting an assignment that is similar in wording or sentence construction to the work of another student**, even if you acknowledge the participation of the other student. **ALL SUBMITTED WORK MUST BE DONE BY YOU ALONE.**

Course Policy on Classroom civility and decorum:

The university, college and department has a commitment to respect the dignity of all and to value differences among members of our academic community. There exists the role of discussion and debate in academic discovery and the right of all to respectfully disagree from time-to-time. Students clearly have the right to take reasoned exception and to voice opinions contrary to those offered by the instructor and/or other students (S.R. 6.1.2). Equally, a faculty member has the right -- and the responsibility -- to ensure that all academic discourse occurs in a context characterized by respect and civility. Obviously, the accepted level of civility would not include attacks of a personal nature or statements denigrating another on the basis of race, sex, religion, sexual orientation, age, national/regional origin or other such irrelevant factors.

Lecture Schedule for Bio 350, FALL 2010

Lecture	Day	Date	Topic	Reading	Lecturer
1	W	8/26	Introduction to course and physiology	Chapt 1&2, 3	Cooper
2	M	8/31	Molecules, Energy and Biosynthesis	Chapt 3	Cooper
3	W	9/2	Membranes, Channels and Transport/ Physical basis of neuronal function	Chapt. 4, & 5	Cooper
4	M	9/7	Holiday---Labor day		
5	W	9/9	Physical basis of neuronal function	Chapt. 5	Cooper
6	M	9/14	Communication along and between neurons	Chapt. 6	Cooper
	W	9/16	Exam 1	Ch1-6part	Cooper
7	M	9/21	Communication along and between neurons	Chapt. 6	Cooper
8	W	9/23	Communication along and between neurons	Chapt. 6	Cooper
9	M	9/28	Sensory Mechanisms	Chapt. 7	Cooper
10	W	9/30	Sensory Mechanisms	Chapt. 7	Cooper
11	M	10/5	Sensory Mechanisms/ Organization of Nervous System	Chapt. 7-8	Cooper
12	W	10/7	Muscle	Chapt. 10	Cooper
13	M	10/12	Muscle & Behavior	Ch 10-11	Cooper
14	W	10/14	Muscle & Behavior	Ch 10-11	Cooper
	M	10/19	Exam 2	Ch 6-11 (w/o 9)	Cooper
15	W	10/21	Hormones, mechanisms of action	Chapt. 9	Palmer
16	M	10/26	Hypothalamus-Pituitary	Chapt. 9	Palmer
17	W	10/28	Thyroid, parathyroid, adrenal and pancreas	Chapt. 9	Palmer
18	M	11/2	Male reproduction	Chapt. 9	Palmer
19	W	11/4	Female reproduction	Chapt. 9	Palmer
20	M	11/9	Cardiovascular	Chapt. 12	Palmer
21	W	11/11	Cardiovascular	Chapt. 12	Palmer
	M	11/16	Exam 3		Palmer
22	W	11/18	Respiration	Chapt. 13	Palmer
23	M	11/23	Respiration	Chapt. 13	Palmer
	W	11/25	Holiday - Thanksgiving		
24	M	11/30	Ionic and Osmotic Balance	Chapt. 14	Palmer
25	W	12/2	Ionic and Osmotic Balance	Chapt. 14	Palmer
26	M	12/7	Digestion	Chapt. 15	Palmer
27	W	12/9	Digestion	Chapt. 15	Palmer
	F	?	FIDAY; FINAL EXAM		

Laboratory Schedule for Bio 350, FALL 2010

<u>Week of</u>	<u>Topic</u>
Week 1	Modeling biological membranes and learn to use volt meters and oscilloscopes
Week 2	ditto-week before
Week 3	Sensory recordings...extracellular
Week 4	Electrical conduction properties
Week 5	Proprioception. Crayfish MRO or crab leg PD organ.
Week 6	Integration of sensory –cockroach VNC and primary neurons
Week 7	Heart rate in crab and insect
Week 8	Intracellular recordings- ion movements
Week 9	Synaptic physiology- short term facilitation
Week 10	Respiration in insects and crayfish.
Week 11	Endocrine and behavior: Invertebrates
Week 12	Water balance in invertebrates
Week 13	GI recording in crayfish. Pharmacology
Week 14	Temperature and activity. Temperature and development-Physiological stress.
Week 15	Last week of classes... Recording of preparations. Formal write ups due.
Week 16	Finals week....Recording of preparations. Formal write ups due.

LAB: sec 1: Monday 8:00 - 10:50 AM
sec 2: Monday 11:00 - 1:50 AM
sec 3: Monday 2:00-5:50 PM
sec 4: Tuesdays 8:00 -10:50 PM
sec 5: Wednesday 8:00 - 10:50 AM
sec 6: Wednesday 11:00 - 1:50 AM

University Senate Syllabi Guidelines

B10 350

General Course Information

- Full and accurate title of the course.
- Departmental and college prefix.
- Course prefix, number and section number.
- Scheduled meeting day(s), time and place.

Instructor Contact Information (if specific details are unknown, "TBA" is acceptable for one or more fields)

- Instructor name.
- Contact information for teaching/graduate assistant, etc.
- Preferred method for reaching instructor.
- Office phone number.
- Office address.
- UK email address.
- Times of regularly scheduled office hours and if prior appointment is required.

Course Description

- Reasonably detailed overview of the course.
- Student learning outcomes.
- Course goals/objectives.
- Required materials (textbook, lab materials, etc.).
- Outline of the content, which must conform to the Bulletin description.
- Summary description of the components that contribute to the determination of course grade.
- Tentative course schedule that clarifies topics, specifies assignment due dates, examination date(s).
- Final examination information: date, time, duration and location.
- For 100-, 200-, 300-, 400-, 400G- and 500-level courses, numerical grading scale and relationship to letter grades for *undergraduate* students.
- ~~N/A~~ For 400G-, 500-, 600- and 700-level courses, numerical grading scale and relationship to letter grades for *graduate* students. (Graduate students cannot receive a "D" grade.)
- Relative value given to each activity in the calculation of course grades (Midterm=30%; Term Project=20%, etc.).
- Note that undergraduate students will be provided with a Midterm Evaluation (by the midterm date) of course performance based on criteria in syllabus.
- Policy on academic accommodations due to disability. Standard language is below:
If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

Course Policies

- Attendance.
- Excused absences.
- Make-up opportunities.
- Verification of absences.
- Submission of assignments.
- Academic integrity, cheating & plagiarism.
- Classroom behavior, decorum and civility.
- ~~N/A~~ Professional preparations.
- Group work & student collaboration.