

Human Reproduction

BIPN 100, Fall 2018

Tues Thurs, 9:30-10:50 pm, Sequoyah 147

Instructor: **Dr. James Cooke**

Office: 3080C York Hall

email: j2cooke@ucsd.edu (if you email me, please include "BIPN 100" in the subject)

Office hours: Tues after class (11:10-ish to 12:-10-ish) in 2300 York Hall; online Tues 8-9 pm

Materials:

- Textbook: Human Physiology by Silverthorn, 7th edition (older versions are okay, but page numbers will likely be different.)

Note: in an attempt to cut textbook costs for the students, we are trying a new online tool called RedShelf. Your course materials are provided by the UC San Diego Bookstore through TritonEd and are free for the first two weeks of classes. *After two weeks, your student account will be charged a special reduced price unless you opt-out.* If you decide to opt-out you must complete the process by 10/13/18 and you will be responsible for sourcing the materials elsewhere.

Click [here](#) to view how to access your course materials or opt-out.

For any questions about billing please contact textbooks@ucsd.edu.

For any questions about using your eBook please reference [RedShelf Solve](#).

If you have any trouble accessing your eBook please feel free to reach out to help@redshelf.com.

Evaluation:	pre-lecture quizzes (on TritonEd)	5%
	post-midterm surveys	2 x 1% each = 2%
	Assignments (in Discussion section)	3 x 1% each = 3%
	Midterm I (Oct 24, 5-7 pm)	22.5%
	Midterm II (Nov 14, 5-7 pm)	22.5%
	Final Exam	45%

iClickers

I have decided not to use iClickers for participation this quarter. This is a difficult choice for me, because I highly value in-class discussion as a tool to drive learning. For that reason, I will continue to use clicker questions in class, I just won't be counting clickers scores toward your course grade. So, if you have a clicker (or know someone who does), please bring it to class with you! If not - no worries.

TritonEd website for BIPN 100:

- You can access your pre-lecture assignments, quizzes, and surveys.
- You can access your grades.

- You can access lecture notes. There will be lecture notes before class, and a second (complete) set of slides after class. So for each lecture, there will be a “pre” and “post” set of notes.

Pre-lecture quizzes: Each week, I will assign some reading from your textbook and there will be a quiz that goes along with the pre-reading. Both the assigned reading and quiz will be located in the “pre-lecture” folder for that particular week on our TritonEd site. I will (try to) post the quizzes by midday Friday. Each quiz will be due at 11:59 pm on Mondays. You can take each quiz twice, and I will record the higher of the two grades. I also drop the lowest quiz score of the quarter.

Accommodations: I am happy to make any/all accommodations possible to help my students succeed in this course. Please let me know as soon as possible about any accommodations you may require.

Values

I want our classroom to be a place where we are free to explore the material in a manner that is respectful and engaging. We should feel free to make mistakes and ask challenging questions of each other. To that end, I've included a table below that outlines what students can expect from the teaching team, and what we should be able to expect from them.

	It is expected that students will:	The students can expect that we will:
Honesty	<ul style="list-style-type: none">demonstrate your knowledge and abilities without outside aids or looking at the answers of others during exams.	<ul style="list-style-type: none">evaluate your knowledge of course concepts objectively and honestly.admit if a mistake has been made, and correct the mistake.
Responsibility	<ul style="list-style-type: none">show up to class on time, ready to think critically about, and engage meaningfully with, course material.	<ul style="list-style-type: none">use student-centered approaches in the classroom that have been shown to increase retention of course material, improve grades, and lower failure rates for all students, especially first-generation students and under-represented minorities (Eddy and Hogan, 2014).Start class on time.
Respect	<ul style="list-style-type: none">use language in the classroom that is inclusive and respectful of myself and your peers.	<ul style="list-style-type: none">help facilitate respectful dialogue amongst students.engage with students in a respectful manner.
Fairness	<ul style="list-style-type: none">contribute meaningfully to group discussions, so as not to take advantage of others.	<ul style="list-style-type: none">Create and grade assessments in a manner that is objective and reasonable.Treat all groups equally.
Trustworthiness	<ul style="list-style-type: none">not post any of our course content (slides, practice problems, pre-reading quiz problems) on the internet	<ul style="list-style-type: none">respond to emails in a timely fashion, IF the answer to any question is not in the syllabus
Courage	<ul style="list-style-type: none">say or do something when you see actions that undermine the above values.	<ul style="list-style-type: none">happily receive constructive criticism about our teaching at any time.say or do something when we see actions that undermine the above values.

modified with permission from Dr. Tricia Bertram Gallant.

Please see the UCSD rules on Academic Integrity and Standards (academicintegrity.ucsd.edu). When in doubt, just ask a member of the teaching team. The teaching team and I are obligated to report all incidents of cheating to the Academic Integrity Office.

Midterm Group Exams: we are going to use group exams for a portion of our midterms. Here's how it works: you take a midterm and hand it in (pretty typical so far!). You then get into a group of 3 to 5 people. In your groups, you will then answer one of the midterm questions (they are typically 1 page long, and take ~10 minutes each) a second time. Here's how the scoring will work for group exam questions:

I will take the average of the individual scores of all members of the group for that question. I will then take the group's score on the group portion of the exam. If the group exam score is higher than the average of the individuals, then I will add the difference to each individual's score.

Eg:

Student A: 90% on individual portion for question 4 (for example)

Student B: 80% on individual portion for question 4

Student C: 70% on individual portion for question 4

Student D: 60% on individual portion for question 4

Average of individual scores for question 4: 75%.

That same group gets 80% on the group exam for question 4.

Difference between ave individual and group = 5%.

Therefore, each individual gets an additional 5% on their scores for question 4, so the grades look like:

Student A: 95% for question 4

Student B: 85% for question 4

Student C: 75% for question 4

Student D: 65% for question 4

IF your group grade is lower than the average grade for your group, then it will NOT lower your grade for that question. The group exam CANNOT lower your grade: only raise it.

Policy on missed midterm

If you miss a midterm with a valid excuse (ie: illness with doc's note), I'll take the relevant questions on the final (from same material of the missing midterm) and make them worth the missing 22.5%.

Discussion Sections: are not mandatory... usually. During weeks **four**, **SIX (updated Oct 8)** and **nine**, Discussion sections will include an assignment worth 1% (each) of your final grade.

Teaching Team, Sections and Office Hours

Who	email	What	Where	When
Dylan Hutson	dhutson@ucsd.edu	Sections	York 4050A	Mon
		Office hour	Starbucks	Thurs 11-noon
Chris Ashdown	cashdown@ucsd.edu	Section	York 4050A	Mon
		Office hour	Muir Woods coffee house	Tues 12:30-1:30

Grades will follow the scheme below:

A+	90+	B-	70-73
A	85 - 90	C+	67-69
A-	80-84	C	64-66
B+	77-79	C-	60-63
B	74-76	D	50-59

Tentative Schedule BIPN100, Fall 2018

Date	Topic
Oct 1 - 5	membranes and membrane transport Resting membrane potential
Oct 8 - 12	action potentials: channels and their function action potentials: refractory periods and propagation
Oct 15 - 19	Synaptic transmission: vesicular release; receptors; termination; EPSPs and IPSPs; post-synaptic summation
Oct 22 - 26	Spinal cord organization Sensory systems
Oct 24, 5:00 to 7:00 pm	Midterm 1 in PCYNH 120
Oct 29 - Nov 2	Autonomic nervous system Endocrinology: Feedback loops, hormones, receptors, HPA axis
Nov 5 - 9	Skeletal muscle: excitation-contraction coupling, cross-bridges and power strokes, recruitment, contraction, metabolism
Nov 12 - 16	Smooth muscle contraction and regulation Cardiac muscle: excitation-contraction coupling; Action potentials
Nov 14, 5:00 to 7:00pm	Midterm 2 in PCYNH 120
Nov 19 - 23	Cardiac muscle: Action potentials of pacemaker cells inotropy, chronotropy, dromotropy Cardiac muscle: EKGs; Wigger's diagram; P/V loops
Nov 26 - 30	Blood flow, pressure and resistance Capillary exchange Regulation of blood pressure
Dec 3 - 7	Renal physiology: filtration, reabsorption, secretion, excretion Measuring renal flow rates Endocrine control of renal function
Dec 13, 8:00 - 11:00	Final exam: Comprehensive

University of California, San Diego
Consent to Act as a Research Subject

Investigating the Impact of Pedagogical Choices on University Student Learning and Engagement

Who is conducting the study, why you have been asked to participate, how you were selected, and what is the approximate number of participants in the study?

Gabriele Wienhausen, Director of the Teaching and Learning Commons, together with her education research colleagues is conducting a research study to find out more about how pedagogical choices affect student learning and experience in the classroom. You have been asked to participate in this study because you are a student in a class that is being studied or used as a control. There will be approximately 500,000 participants in this study.

Why is this study being done?

The purpose of this study is to create knowledge that has the potential to improve the learning and educational experience of students at UC San Diego and beyond.

What will happen to you in this study and which procedures are standard of care and which are experimental?

If you agree to be in this study, the following will happen:

- Your data from this class including grades, homework and exam submissions, and survey responses will be included in the analysis to determine the effectiveness of the pedagogical techniques used in this course compared to other similar courses. ALL data collected will be anonymous, and used in aggregate (that means: we'll take averages of student responses and data)

How much time will each study procedure take, what is your total time commitment, and how long will the study last?

Your participation involves only agreeing to let us use your data in our analysis. It will require no time on your part above the time you put into this course without agreeing to the study.

What risks are associated with this study?

Participation in this study may involve some added risks or discomforts. These include the following:

1. A potential for the loss of confidentiality. We will not share your personally identifying data with people outside our research team. Data will only be kept in anonymized form for research purposes. Course data will not be used for this research study until after final grades have been posted and will be rendered confidential by removing any identifiers before analysis. Your instructor will not know whether or not you are participating in this study until after final grades have been posted. Data from students who opt out of the study will be removed prior to data analysis. Research records will be kept confidential to the extent allowed by law. Research records may be reviewed by the UCSD Institutional Review Board.

Since this is an investigational study, there may be some unknown risks that are currently unforeseeable. You will be informed of any significant new findings.

What are the alternatives to participating in this study?

The alternatives to participation in this study are not to participate. If you choose to opt-out of participating in this research study, we will exclude your data from analysis. Whether you participate will have no impact on your experience or grade in the associated class as the professor will not know who is or is not participating in the study until after final grades are assigned.

What benefits can be reasonably expected?

There is no direct benefit to you for participating in the study. The investigator, however, may learn more about how to improve student learning, and society may benefit from this knowledge.

Can you choose to not participate or withdraw from the study without penalty or loss of benefits?

Participation in research is entirely voluntary. You may refuse to participate or withdraw or refuse to answer specific questions in an interview or on a questionnaire at any time without penalty or loss of benefits to which you are entitled. If you decide that you no longer wish to continue in this study before the end of the quarter, simply respond to the online opt-out form here: <https://goo.gl/forms/JSBRjEmkES6W6xYc2>. If you decide to opt out after the quarter has ended, you must contact Ying Xiong (yix184@ucsd.edu) and give the quarter and the course from which you would like your data withdrawn.

You will be told if any important new information is found during the course of this study that may affect your wanting to continue.

Can you be withdrawn from the study without your consent?

The PI may remove you from the study without your consent if the PI feels it is in your best interest or the best interest of the study. You may also be withdrawn from the study if you do not follow the instructions given you by the study personnel.

Will you be compensated for participating in this study?

You will not be compensated for participating in this study.

Are there any costs associated with participating in this study?

There will be no cost to you for participating in this study.

Who can you call if you have questions?

Gabriele Wienhausen and/or her colleague has explained this study to you and answered your questions. If you have other questions or research-related problems, you may reach Gabriele Wienhausen at gwienhausen@ucsd.edu or (858) 534-3958.

You may call the Human Research Protections Program Office at 858-246-HRPP (858-246-4777) to inquire about your rights as a research subject or to report research-related problems.

Your Consent

If you consent to participate in this study, no action is needed. If you DO NOT consent to participate in this study, or you choose to opt-out at any time during the quarter, please submit this form online at <https://goo.gl/forms/JSBRjEmkES6W6xYc2>. Your instructor will not have access to the list of students who opted out until after grades are posted. Note that you must separately opt-out of the study for each course involved in this study.

I am not 18 years or older or I do not consent to anonymized research use of my data from the course specified below.

Course name: _____ Course section number: _____ Term: _____

Name: _____

PID: _____