

Course Syllabus



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Required Text

1. Sex/gender, Biology in a Social World, by Fausto-Sterling. You will be assigned readings from this text. This book is available in paperback and also an electronic version. Either version is acceptable. ISBN-0415-88146-3 E-Book The library, in partnership with World Campus, has made an E-Book available to you in this course. You can access this E-Book at no cost to you. This E-Book is located within the library resources tab in the white menu in Canvas. If you click the tab, you will see a reserves link and then you will see an E-Book folder. Clicking the book here will open it for you. Along with the E-Book, you will see an FAQ guide linked that can answer any common questions you have about using and accessing E-Books as part of the program. We are thrilled to increase student affordability and provide this service to you as Penn Staters. If you have issues accessing the E-Book please email victoria@psu.edu and ul-reserveshelp@lists.psu.edu.
2. Biology of Sex Custom Book from Pearson with OR without MasteringAandP Package: Fundamentals of Anatomy and Physiology by Martini, Nath, and Bartholomew. You may buy a used book, if you do not wish to purchase the online study tools associated with Mastering AandP.

Online Course Materials: Course materials can be accessed through Canvas. I expect you to read all supplied articles and text. A Penn State access ID username and password is required to access materials.

As an additional reference, I recommend Human Reproductive Biology 3rd ed by Jones and Lopez, Elseiver 2006 ISBN 012088465. Many of the posted articles come from Jones and Lopez. I will give you everything I expect you to read from this title.

There is a huge lack of awareness with what is available to students with regards to the library. In addition, students who know about using the library often have limited knowledge of Course Reserves but not everything they can get from the library. You may find the Online Student Library Guide useful: <http://guides.libraries.psu.edu/onlinestudentlibraryguide> (Links to an external site.)

Course Description

This course presents a background on the basic structure and function of the human reproductive system. Student evaluation is based on participation in on line activities, discussion boards, and performance on quiz and exam assessment. All quizzes and exams are to be taken "closed book."

Exams will be taken using a proctoring service called Examity. By completing the first modules and week 1 activities you will practice navigating Canvas and explore functions utilized for the course. Each week you will be expected to...

*Read the presented material/or listen to lectures

*Complete assignments related to the lessons. Example assignments include quizzes, online discussion, and exams.

***Complete all assignments by 11:59 PM Eastern Time on Sunday for each week.** Course materials can be accessed through the course site in Canvas. **You may NOT use your course materials while taking a quiz or exam assessment.**

How to email instructors

If you email your professor or TA please give your first and last names and have "BIOL 177" in the subject line. There is an ENG 202 presentation in the Modules section that details how to send a professional email to faculty member. It is well worth 7 minutes of your time.

Course Goals and Objectives

Goals

This course presents a thorough background on the basic structure and function of the human reproductive system. Goals are to provide the student with sufficient knowledge to understand and discuss sex-related topics and make informed personal decisions. Through online presentations and class discussion students will be exposed to information that will clarify their understanding of the ways that their own body functions in sexual behavior and reproduction. Importantly, students will examine the roles of reproductive physiology and sexuality in a historical, cultural and social context, with particular emphasis on cultural and gender differences in anatomical forms, sexual expression, and disease. The course will present current research on human sex and reproduction, and explore the biology behind human sexuality and medicine.

Learning Objectives

- Trace the pathway sperm must take through the male and female reproductive system to complete successful fertilization.
- Diagram gametogenesis, including both mitotic and meiotic cell divisions; describe when these processes occur (fetal development/puberty/maturity).
- Diagram the uterine and ovarian cycles; explain how hypothalamic, pituitary, and ovarian hormones coordinate both cycles to create the menstrual cycle.
- Describe the physiology of the endocrine system at it pertains to reproductive biology including regulation using negative feedback loops.
- Be able to clearly explain in your own words the difference between sex and gender. Explain how chromosomes, hormones, and gonads interact to create each.
- Describe sexuality, behavior and attraction in humans and the function of pheromones, and hormones.
- Be able to identify specific points during development where intersex phenotypes can arise.
- Be able to identify which STDs are curable, incurable, and what the consequences of each are in terms of reproductive health and mortality.
- Compare and contrast menopause and andropause; be able to analyze data and describe and benefits and risk of hormone replacement therapy in your own words.
- Compare and contrast the human sexual response cycle in males and females.
- Be able to identify key events occurring during developmental embryonic and fetal stages and understand how these events fit with maternal changes during each trimester.
- Describe the process of parturition.
- Describe hormonal regulation of lactation and the physiology of nursing.

Tentative Schedule

Please note that the specifics of this Course Syllabus are subject to change, and you will be responsible for abiding by any such changes. Your instructor will notify you of any changes. Students are responsible for checking the syllabus weekly submitting assignments/assessments before the due date Sunday 11pm EST. The most up to date syllabus can be viewed on Canvas syllabus. Thank you in advance for your patience and flexibility.

Course Calendar and Schedule

Week	Lesson	Assignment/Assessment Due by 11:59pm Sunday. NOTE EXAMS must be Proctored and have different due dates.
Week 1	Intro Male Reproductive System Read Martini's (Pearson) Pages 103-120	Intro Activities: 3 Syllabus/Academic Integrity Quizzes, (30 points total) Discussion Board (5 points) Quiz 1: Male Anatomy (10 Points), Circumcision Discussion Board (5 points)

Week 2	Female Reproductive System Read Martini's (Pearson) Pages 120-133; stop at hormones	Quiz 2: Female Anatomy (10 points)
Week 3	Sex Determination Read Fausto-Sterling Chapter 1-3	Quiz 3: Sex Determination (10 points)
Week 4	EXAM I	EXAM I covers Male/Female Anatomy and Physiology, and Sex Determination.
Week 5	Gender vs. Sex Read Fausto-Sterling Chapter 5	Quiz 4: Gender vs. Sex (10 Points); Gender vs Sex Discussion Board (5 points)
Week 6	Sexuality/ Behavior and Attraction Read Fausto-Sterling 4,6, 8-10	Quiz 5: Sexuality/Attraction (10 Points) Can Sexuality be Standardized Discussion Board? (5 points)
Week 7	Sexology/Human Sexual Response Read Martini's (Pearson) Pages 139-140 Sexual Dysfunction (on Canvas) STDs	Quiz 6: Sexology/Human Sexual Response (10 Points) Quiz 7: STDs (10 points) STD Discussion Board (5 points)
Week 8	Exam II	EXAM II covers Gender vs Sex, Sexuality, Sexology and Human Sexual Response Cycle, and STDs
Week 9	Endocrinology Read Martini's (Pearson) Pages 55-71 (skip second messengers and G-proteins) Page 92 Clinical note	Quiz 8: Endocrine (10 Points) Endocrine Disruptor discussion Board (5 points)
Week 10	Menstrual Cycle Read Martini's (Pearson) Pages 133-139	Quiz 9: Menstrual Cycle (10 Points)
Week 11	Puberty/Reproductive Senescence HRT paper Assigned Read Martini's (Pearson) Pages 176-178, 140-143; 77-80 (zona reticularis of adrenal cortex)	Quiz 10: Puberty/Reproductive Senescence (10 Points) HRT discussion board (5 points)

Week 12	Oogenesis/Spermatogenesis/ Fertilization Read Martini's (Pearson) Pages 39-46, 108-113, 122-125, 151-155	Quiz 11: Gametogenesis/Fertilization (10 Points)
Week 13	Exam III	EXAM III covers Endocrine, Menstrual Cycle, Puberty and Reproductive Senescence & Gametogenesis/Fertilization
Week 14	Gestation/Pregnancy Read Martini's (Pearson) Pages 155-170	Quiz 12: Gestation/Pregnancy(10 Points)
Week 15	Parturition/Lactation Read Martini's (Pearson) Pages 170-176 Contraception	Quiz 13: Parturition/Lactation (10 Points) Cesarean Section Discussion Board (5 points) Breast vs. Bottle Discussion Board (5 points) Quiz 14: Contraception (10 Points)
Week 16 and Final Exam	Exam IV	EXAM IV Covers Gestation/Pregnancy, Parturition/Lactation and Contraception.

Course Requirements

Consistent/Stable Internet Access – Lack of internet access is not a legitimate excuse for late submission of any assignment. If your computer breaks down or your internet access is disrupted, you are responsible for going to a friend, public library, etc. in order to submit your assignment(s) on time.

<https://www.worldcampus.psu.edu/general-technical-requirements>

Speakers or headphones- some of the lessons will be a narrated powerpoint presentation via the Voice Thread application.

A web camera and microphone is needed for the midterm and final exam. Your Examity proctor will watch you take the test through the web cam.

If you have a technical problem with Canvas or other PSU supported products you can contact the World Campus Help Desk. If you have a problem with your proctor use the following link <http://student.worldcampus.psu.edu/technical-support/contact-us> More info on the Examity proctor service can be found in the Modules tab. (Links to an external site.)

Course Prerequisites

None.

Grading Policy

All quizzes and Exams are to be taken closed book. All exams and assignments are worth approximately ~400 total points. Weekly assignments and/or quizzes are due on Sunday at 11:59PM Eastern Standard Time. Something is due every week so make sure you are keeping up and doing the assignments for each week. Quizzes cannot be accessed after 11:59pm Eastern Standard Time (NO EXCEPTIONS). Failing to allow enough time to complete and submit the assignment is not a valid excuse and does not qualify as an emergency. Missed quizzes will count as a dropped grade. Quizzes cannot be reopened after they close for any reason including hospitalization, deaths, or other emergencies.

Quizzes consist of 5-10 multiple choice, ordering, multiple select and true/false questions based on the weekly lectures and web assignments. These will be available in Canvas in the weekly modules folders. You can submit the quiz anytime during the week, but you will be given 15-20 minutes to complete the quiz and only one attempt. Do not open the quiz until you have viewed all the course material for that week. You will be presented with 14 quizzes, but only your top 12 quiz scores will be considered in the final grade calculation. If you fail to take a quiz in the allotted time **for any reason** it will be counted as one of your dropped scores.

Discussion boards require full class participation. Each discussion board is a maximum of 5 points total. Discussion topics are testable on exams and you may see exam questions on that material. It is in your best interest to check back and read comments throughout the week. Posting to the discussion board after the due date when classmates are no longer engaging is pointless (there is no one else logging on to discuss) and therefore worth 0 points. I do not accept late discussion posts under any circumstances. Discussions cannot be reopened after they close for any reason including hospitalization, deaths, or other emergencies. Be sure to log on and comment at least once.

ASSIGNMENT NUMBER POINTS FOR EACH TOTAL POINTS

ASSIGNMENT	Points	Total	Percentage
4 Examity Proctored Exams	50	200	12.5% per exam; 50% total
14 Quizzes, best 12 of 14	10	120	2.5% per quiz or 30% total
8 Discussion Boards 5 points	5	40	1.0% per discussion; 8.0% total
Syllabus, AI quizzes in Canvas	15,10, 10	35	8.75% total

400

Assignment of Grades:

A 93 - 100%, A- 90-92%, B+ 87 - 89%, B 83 - 86%, B- 80 - 82%, C+ 77 - 79%, C 70 - 76%, D 60 - 69%, F > 60%

If the class mean is below 70%, then grades will be assigned with the mean being a "C".

Exam Policy

Exams consist of ~25 multiple choice/ short answer questions and are weighted to be worth 50 points each. You are responsible for all material presented online and assigned articles and readings. You may not use your notes when taking exams or quizzes. You may not perform internet searches when taking exams or quizzes. The final is not cumulative; it is simply a fourth test. Exams will be taken using Canvas. You may open an exam only one time and must submit your answers within a 60 minute period. You will need to schedule an appointment with Examity to access the proctored Exams. Exams can be canceled and rescheduled however 24 hours' notice is required. In rare instances I can grant extensions for exams given an extreme illness or emergency. Exam Extension requests must be made within 7 days of the exam.

Online Proctored Exam

This course will require you to take exams using certain proctoring software that uses your computer's webcam or other technology to monitor and/or record your activity during exams. The proctoring software may be listening to you, monitoring your computer screen, viewing you and your surroundings, recording and storing any and all activity (including visual and audio recordings) during the proctoring process. By enrolling in this course, you consent to the use of the proctoring software selected by your instructor, including but not limited to any audio and/or visual monitoring which may be recorded. **Please contact your instructor with any questions."**

In this class you will take your tests remotely and they will be proctored by a service called Examity®. Review the Student Quick-Guide, which is available in the modules tab, for instructions on how to use Examity®. Please log in as soon as possible to set up your profile. You will not be able to schedule exams until your profile is complete.

Examity® system requirements are:

Desktop computer or laptop (not tablet)

Webcam and microphone (built-in or external)—test your webcam at www.testmycam.com (Links to an external site.)

Connection to network with sufficient internet speed: at least 2 Mbps download speed and 2 Mbps upload—test internet speed at www.speedtest.net (Links to an external site.)

Operating systems: Windows XP—Windows 10, Mac OS X 10.8 (Mountain Lion)—10.11 (El Capitan)

Browser with pop-up blocker disabled: Google Chrome v39 or later, Mozilla Firefox v34 or later, Internet Explorer v8 or later, Microsoft Edge, Apple Safari v6 or later

If you have any questions or concerns, contact Examity's technical support team 24/7 via email at support@examity.com (Links to an external site.) or phone at (855) 392-6489.

Proctoring Process via Examity

In general, students will work through the Examity® Dashboard in order to:

- Develop an identification profile which includes uploading a picture identification card, security questions, and keystroke analysis;
- Run a computer requirements check;
- Schedule to take an exam; and then
- Login at the scheduled time to take the exam under the supervision of a professional proctor from Examity®.

Students will not be able to pass the authentication process unless their Examity profile is complete. All profile images must be of a government issued photo ID or a student photo ID. Your Penn State ID card is suitable only if it contains a photo. Selfies are unacceptable. It is highly recommended you set up your Examity profile at the start of the semester rather than waiting for the day of the exam. Exams must be scheduled (and rescheduled if need be) a minimum of 24 hours in advance. Exams that are cancelled and rescheduled within less than 24 hours' notice may incur a fee. Exams are only accessible during the dates listed in the syllabus. Please make every attempt to resolve any scheduling issues with Examity support first. The instructor may be able to help, but Examity offers extensive support and they are likely able to address any day of exam issues.

Reaching Examity® Support. All day and all of the night.

Phone: 855-392-6489

Email: support@examity.com

Live Chat: Click on the live chat link located at the top and bottom of your Examity® portal.

Academic Integrity

Academic Integrity/Academic Dishonesty: Academic dishonesty is not limited to simply cheating on an exam or assignment. The following is quoted directly from the "PSU Faculty Senate Policies for Students" regarding academic integrity and academic dishonesty: "Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students." All University and Eberly College of Science policies regarding academic integrity/academic dishonesty apply to this course and the students

enrolled in this course. **Refer to the following URL for further details on the academic integrity policies of the Eberly College of Science:**

<http://www.science.psu.edu/academic/Integrity/index.html>. Each student in this course is expected to work entirely on her/his own while taking any exam, to complete assignments on her/his own effort without the assistance of others unless directed otherwise by the instructor, and to abide by University and Eberly College of Science policies about academic integrity and academic dishonesty. Academic dishonesty can result in assignment of "F" by the course instructors or "XF" by Judicial Affairs as a student's final grade.

Disability Policy

Penn State welcomes students with disabilities into the University's educational programs.

Every Penn State campus has an office for students with disabilities. Student Disability Resources (SDR) Web site provides contact information for every Penn State campus:

<http://equity.psu.edu/sdr/disability-coordinator> (Links to an external site.) (Links to an external site.). For further information, please visit Student Disability Resources Web site:

<http://equity.psu.edu/sdr> (Links to an external site.) (Links to an external site.).

In order to receive consideration for reasonable accommodations, you must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <http://equity.psu.edu/sdr/guidelines> (Links to an external site.) (Links to an external site.). If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with an accommodation letter. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. You must follow this process for every semester that you request accommodations. For this particular course requests must be made 7 days prior to the due date of an assignment to guarantee accommodations.

Educational Equity/Report Bias Statement

Penn State takes great pride to foster a diverse and inclusive environment for students, faculty, and staff. Acts of intolerance, discrimination, or harassment due to age, ancestry, color, disability, gender, gender identity, national origin, race, religious belief, sexual orientation, or veteran status are not tolerated and can be reported through Educational Equity via the [Report Bias webpage](#) (Links to an external site.).

Counseling and Psychological Services Statement

Many students at Penn State face personal challenges or have psychological needs that may interfere with their academic progress, social development, or emotional wellbeing. The university offers a variety of confidential services to help you through difficult times, including individual and group counseling, crisis intervention, consultations, online chats, and mental health screenings. These services are provided by staff who welcome all students and embrace a philosophy respectful of clients' cultural and religious backgrounds, and sensitive to differences in race, ability, gender identity and sexual orientation.

Counseling and Psychological Services at University Park (CAPS) (Links to an external site.):

814-863-0395

Counseling and Psychological Services Commonwealth Campuses (Links to an external site.)

Penn State Crisis Line (24 hours/7 days/week): 877-229-6400

Crisis Text Line (24 hours/7 days/week): Text LIONS to 741741