

BIOLOGY, SOCIETY, AND BIOMEDICAL ISSUES - SPRING 2021

COURSE: Biology, Society and Biomedical Issues (01:119:150)

INSTRUCTOR: Martha Haviland, Ph.D.
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WEEKLY REVIEWS: Times will be announced during 2nd week of class
Individual office hours are also available by appointment (please e-mail)

REQUIRED TEXT: Human Biology (open source)
<https://www.ck12.org/book/ck-12-human-biology/>

COURSE WEBSITE: <http://canvas.rutgers.edu>
(For tech help with Canvas, please visit <https://it.rutgers.edu/help-support>)



SAS CORE LEARNING GOALS:

- NS. Students are expected to understand and apply basic principles and concepts in the physical or biological sciences.
- CC. Students are expected to analyze the relationship that science and technology have to a contemporary social issue.

GRADING:	Weekly Discussion Posts	10%
	Weekly Concept Checks	25%
	Reading Quizzes	5%
	Assignments	10%
	Hourly Exams (2)	20%
	Final Exam	15%
	Final Paper	15%

Weekly Concepts Checks: Each lecture video will have questions, either as a Canvas Quiz or Canvas Assignment. All are due at the end of each week (Sunday by 10pm). They are worth 2 points and will be graded as follows:

- 0 if no answer provided
- 0.5 if incorrect or if correct, but no support given for answer
- 1 if incorrect, but you utilized information from the lecture/readings in your answer
- 1.5 if you were on the right track and supported your answer
- 2 if you got the correct answer AND supported it with information from the lecture/readings (please note that only 0.5 points will be given if no support for your answer is provided, even if the answer is correct).

Weekly Discussion Posts: Each week there will be one group discussion administered via the Discussion function in Canvas. You will be expected to submit your comment (2 points) and then respond to two other students' posts (2 points). Student discussion posts will be evaluated for clarity, specificity, incorporation of reading and lecture materials, and thoughtful engagement with discussion prompt and others' posts; please see details below:

Timeliness and frequency:

Initial comment is due by 10pm on Thursday

Responses: please plan to respond to two other students by 10pm on Sunday

Length and Writing Style:

Initial comments should equal or exceed 50 words. Responses should equal or exceed 25 words. All comments should be written in full sentences and be grammatically correct.

Comments must be in your own words, not cut and pasted from other sources.

Relevance:

Comments should be on topic and be thoughtful and respectful of others. Comments should include analysis/synthesis of course material, personal experiences, and contributions of others.

COURSE POLICIES:

Exams: All exams are open book and open notes; but they are not group projects. Thus, I will expect you to do the work on your own. Make-up/Conflict Exams will be given only under very unusual circumstance. Please contact me as soon as possible if such a circumstance arises.

Students with Disabilities: If you will be requesting accommodations, please follow the procedures outlined at <https://ods.rutgers.edu/>

Academic Honesty: Plagiarism is an extremely serious matter and is strictly prohibited by the University. When referring to ideas other than your own, always acknowledge your sources clearly and completely, whether you are quoting or paraphrasing. If you are unsure about what is legitimate citing of other people's ideas and what is illegitimate plagiarism, do not hesitate to ask me. Allowing your writing to be copied in whole or in part by another student is also considered cheating. Collaboration (e.g. via GroupMe chat, iMessage, etc.) on exams, quizzes and assignments when otherwise prohibited is cheating and thus a violation of our Academic Integrity Policy as well.

Please note that our policy states that students are encouraged to "bring all alleged violations of the academic integrity they encounter to the attention of the appropriate authorities." Please feel free to contact me and/or the Office of Student Conduct (conduct@echo.rutgers.edu) if you become aware of a violation of our Academic Integrity Policy.

For further information, please see the University's policies on academic integrity at <http://academicintegrity.rutgers.edu/>

STUDENT-WELLNESS SERVICES:

Just In Case Web App <http://codu.co/cee05e>

Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / www.rhscaps.rutgers.edu/

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community and consultation and collaboration with campus partners.

Violence Prevention & Victim Assistance (VPVA)

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / www.vpva.rutgers.edu/

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty.

Scarlet Listeners

(732) 247-5555 / <http://www.scarletlisteners.com/>

Free and confidential peer counseling and referral hotline, providing a comforting and supportive safe space.

TENTATIVE SCHEDULE

<u>DATE</u>	<u>TOPIC</u>	<u>READINGS</u>
1/19-1/24	Introduction	Ch. 2
1/25-1/31	Scientific Process Chemistry Part I (Inorganic)	Ch. 1 Ch. 3
2/1-2/7	Chemistry Part II (Organic) Cell Structure	Ch. 3 Ch. 4
2/8-2/14	Tissue and Organ Structure Intro to Genetics ASSIGNMENT 1 Due	Ch. 9 Ch. 5
2/15-2/21	Human Genetics ASSIGNMENT 2 Due	Ch. 5
2/22-2/28	Genetic Testing, Genetic Counseling Part I	Ch. 5
2/24	EXAM I (Introduction – Human Genetic)	
3/1-3/7	Genetic Testing, Genetic Counseling Part II Gene Therapy PAPER TOPICS Due	Ch. 5 Ch. 5
3/8-3/14	Genetically Modified Plants & Animal ASSIGNMENT 3 Due	Ch. 5
3/15-3/21	SPRING BREAK	
3/22-3/28	Blood Cardiovascular System	Ch. 16 Ch. 16
3/29-4/4	Respiratory System Immune System Part I PAPER INTRO and ANNOTATED REFERENCES Due	Ch. 15 Ch. 19
4/5-4/11	Immune System Part II	Ch. 19
4/7	EXAM II (Genetic Testing – Respiratory)	
4/12-4/18	Infectious Diseases Digestive System ASSIGNMENT 4 Due	Ch. 22 Ch. 17, 23

4/19-4/25	Reproductive System & Reproductive Technology	Ch. 20
4/26-5/2	Stem Cells Population Growth & Human Habitats FINAL PAPERS Due	Ch. 21 Ch. 25, 26

SATURDAY MAY 8th FINAL EXAM (Introduction – Habitats)