

COURSE NAME; NUMBER; SEMESTER; MEETING DAYS, TIMES, AND PLACE.

Animal Science

11:067:142 Spring 2020

MTh3, 12:35–1:55 PM

109 CDL

CONTACT INFORMATION:

Instructor(s): Dr Larry Katz

Office Location: 201 Bartlett Hall

Phone: 848-932-1946

Email: LSKATZ@rutgers.edu

Office Hours: By appointment

Guest Speakers:

Dr. Bill Belden	326 Foran Hall	beldenwj@rutgers.edu ;	848-932-5617
Dr. Anna Hausmann	213D Bartlett Hall	anna.hausmann@rutgers.edu	848-932-9240
Dr. Karyn Malinowski	155 ASB II	karynmal@njaes.rutgers.edu ;	848-932-9419
Dr. Dave Reimer	Nelson Bio Labs	reimerd@las.rutgers.edu ;	848-445-7394
Dr. Mehmet Uzumcu	119 Bartlett Hall	uzumcu@rutgers.edu ;	848-932-6912
Dr. Michael Westendorf	213F Bartlett Hall	michael.westendorf@rutgers.edu ;	848-932-9408
Dr. Carey Williams	213E Bartlett Hall	carey.williams@rutgers.edu	848-932-5529
Dr. Aparna Zama	209A Bartlett Hall	zama@sebs.rutgers.edu ;	848-932-8495

COURSE WEBSITE, RESOURCES AND MATERIALS:

- Lecture notes and supplementary readings will be posted on <https://sakai.rutgers.edu>.

PREREQUISITES: None

COURSE DESCRIPTION:

This course presents fundamental principles and functions important in animal science. The scientific underpinnings of modern animal science are presented, with emphasis on nutrition, reproduction, animal domestication and behavior, animal welfare and rights, genetics, and growth. The course deals with domestic animals, including both companion animals and livestock.

LEARNING GOALS:



Core Curriculum Learning Goals

This course meets the Core Curriculum requirement for **Natural Sciences [NS]**. On completion, students will be able to understand and apply basic principles and concepts in the physical or biological sciences, and also to explain and be able to assess the relationship among assumptions, method, evidence, arguments, and theory in scientific analysis."

Program Learning Goals – See <https://animalsciences.rutgers.edu/undergraduate/mission.html> for the program learning goals (PLGs).

1. Gain broad knowledge of the Animal Science discipline to understand the future of the field and its diversity. (PLG 1)

Assessment: Three hourly exams

- Apply biological and chemical principles and quantitative reasoning to concepts presented in core subject areas in Animal Science such as physiology, nutrition, genetics, and reproduction. (PLG 2)
Assessment: Three hourly exams
- Develop an understanding of the principles of animal welfare and ethical treatment of animals. (PLG 7)
Assessment: Three hourly exams

Course Learning Goals

By the end of this course you will

- Gain an appreciation of the contributions that animals and animal products make to human well-being
- Understand the role that basic and applied science plays in modern-day animal science
- Obtain an overview of the varying Animal Science fields and their application to both companion animals and livestock.

ASSIGNMENTS/RESPONSIBILITIES:

Grading

3 exams @ 33.3% each = 100% total

ACCOMODATIONS FOR STUDENTS WITH DISABILITIES

Please follow the procedures outlined at <https://ods.rutgers.edu/students/registration-form>. Full policies and procedures are at <https://ods.rutgers.edu/>

ABSENCE POLICY

Students are expected to attend all classes; if you expect to miss one or two classes, please use the University absence reporting website <https://sims.rutgers.edu/ssra/> to indicate the date and reason for your absence. An email is automatically sent to me.

COURSE SCHEDULE:

Lec #	Date	Lecture Topic	Speaker
1	1/23	Intro: Animal Ag & Animal Products	L Katz
2	1/27	Animal Products; Future of Animal Sci	L Katz
3	1/30	Animal Behavior / Animal Welfare	L Katz
4	2/3	Working Safely With Animals	D Reimer
5	2/6	Nutrition I	C Williams
6	2/10	Nutrition II	C Williams
7	2/13	Nutrition III	C Williams
8	2/17	Animal Diseases / Herd Health	A Hausmann
	2/20	Exam 1 (Lectures 1-8)	-
9	2/24	Reproductive Physiology I	A Zama
10	2/27	Reproductive Physiology II	A Zama
11	3/2	Animal Genetics I	L Katz
12	3/5	Animal Genetics II	L Katz
13	3/9	Biotechnology	B Belden
14	3/12	Animal Domestication	L Katz
	3/16 & 19	SPRING BREAK	--

COURSE SCHEDULE (cont.):

Lec #	Date	Lecture Topic	Speaker
15	3/23	Swine	M Uzumcu
	3/26	EXAM 2 (Lectures 9-15)	--
16	3/30	Lab Animals	M Uzumcu
17	4/2	Poultry	L Katz
18	4/6	Companion Animals	L Katz
19	4/9	Sheep & Goats	L Katz
20	4/13	The Dairy Industry	M Westendorf
	4/16	<i>Sheep, goats, and swine (at farm)**</i>	Farm Staff
	4/20	<i>Cattle and Horses (at farm)**</i>	Farm Staff
23	4/23	The World of Horses	K Malinowski
24	4/27	Equine Industry	K Malinowski
25	4/30	Beef Cattle	L Katz
review	5/4	Review Session	L Katz

Note: Due to the number of guest speakers, the Course Schedule is subject to change. If this occurs Dr. Jesse will provide notice of changes as soon as possible via announcements on Sakai.

**Two class periods (4/15; 4/20) will be held on the Cook Campus Farm with a starting location at the Round House. The Round House is located directly off of College Farm Road on Sheepfold Lane. Given the size of the class, we will need to split into two separate groups that meet for only half of the designated class period.

If your last name begins with:
M-Z: Report to the Round House by 12:35 PM
A-L: Report to the Round House by 1:15 PM

FINAL EXAM AND TIME

Online Final exam Schedule: <http://finalexams.rutgers.edu/>
Final Exam: May 7, 2020; 8:00–11:00 AM (Lectures 16-25)

ACADEMIC INTEGRITY

The university's policy on Academic Integrity is available at <http://academicintegrity.rutgers.edu/academic-integrity-policy>. The principles of academic integrity require that a student:

- properly acknowledge and cite all use of the ideas, results, or words of others.
- properly acknowledge all contributors to a given piece of work.
- make sure that all work submitted as his or her own in a course or other academic activity is produced without the aid of impermissible materials or impermissible collaboration.
- obtain all data or results by ethical means and report them accurately without suppressing any results inconsistent with his or her interpretation or conclusions.
- treat all other students in an ethical manner, respecting their integrity and right to pursue their educational goals without interference. This requires that a student neither facilitate academic dishonesty by others nor obstruct their academic progress.
- uphold the canons of the ethical or professional code of the profession for which he or she is preparing.

Adherence to these principles is necessary in order to ensure that

- everyone is given proper credit for his or her ideas, words, results, and other scholarly accomplishments.
- all student work is fairly evaluated and no student has an inappropriate advantage over others.

- the academic and ethical development of all students is fostered.
- the reputation of the University for integrity in its teaching, research, and scholarship is maintained and enhanced.

Failure to uphold these principles of academic integrity threatens both the reputation of the University and the value of the degrees awarded to its students. Every member of the University community therefore bears a responsibility for ensuring that the highest standards of academic integrity are upheld.

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. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/>

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>.

Scarlet Listeners

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

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