

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

Laboratory Animal Practicum

11:067:205 Spring 2020

Demonstration Component: Mondays; 9:15 AM, *Hands-on Component:* Depending on the registered section, one of these times: Tuesdays, Wednesdays, Thursdays or Friday, 9:00 AM-12:00 PM

Demonstration Component: Bartlett 012 – unless otherwise indicated; *Hands-on Component:* Bartlett Animal Facility: 145.

CONTACT INFORMATION:

Instructor: Mehmet Uzumcu

Office Location: Bartlett Hall Room 119

Phone: 848-932-6912 Email: uzumcu@rutgers.edu

Office Hours: By appointment.

Hands-on Practicum Contact: Steven Cancellieri

Office Location: Bartlett Animal Facility, 145

Phone: 848-932-1234 Email: sc1740@ored.rutgers.edu

COURSE WEBSITE, RESOURCES AND MATERIALS:

- Practicum materials will be posted at sakai.rutgers.edu.

COURSE DESCRIPTION:

During this practicum, students receive hands-on experience working in an AAALAC-accredited laboratory animal research facility. Students learn about the operations of the facility, including animal husbandry skills and general care of laboratory animals. In addition, students will participate in and learn common laboratory research techniques using rodents during designated demonstration sessions

LEARNING GOALS:

Students will:

1. Acquire hands-on experience and knowledge of animal husbandry and care of laboratory animal species as well as research techniques that are commonly used with laboratory rodents (PLG4)
Assessment: Participation, quizzes and lab reports
2. Develop an understanding of the principles of animal welfare and ethical use and care of laboratory animal species (PLG 7)
Assessment: Participation, quizzes and lab reports

ASSIGNMENTS/RESPONSIBILITIES, GRADING & ASSESSMENT:

1. Attendance- 25%
2. Participation- 25%
3. Lab Reports- 25%
4. Quizzes- 25%

Grading:

A: 100-89.5%, B+: 84.5-89.4%, B: 79.5-84.4%, C+: 74.5-79.4%, C: 69.5-74.4%, D: 59.5-69.4%, F: <59.4%.

1. Attendance: this is critical to successfully complete this course.

Absence Policy:

Unnotified absences – None allowed, 8% **overall grade** drop for each absence.

Notified absences – If a student has a legitimate reason for missing a class, they should notify by e-mail the Instructor for the demonstration component or the hands-on contact listed above with a cc to the Instructor for the practicum component at least 30 minutes prior to the start of class.

Missed classes:

- *Demonstration Component:* If a student needs to miss a lecture for a legitimate reason, they must contact the Instructor to find out how to make-up the missed work. (It may not be possible to make-up in some cases.)
- *Hands-on Component:* If a student misses the hands-on component, they are highly encouraged to make up the three-hour, hands-on component in the same week. Students must contact the hands-on contact person, cc'ing to Instructor to schedule the best time to make up missed session(s).
- **Tardiness-** If you are more than 15 minutes late for either component of the practicum, it will be counted as an unnotified absence.
- Sick days will not be counted towards total absence number if a doctor's note is submitted upon return. Student will still need to make up missed class(es).

2. Participation:

Students will be evaluated on their participation in group discussions, reliability, and diligence when working throughout the semester. Below is a breakdown of the criteria that will be assessed when assigning the participation portion of the final course grade.

	A (100%)	B (80%)	C (70%)	D and below (60%)
Arrives and is prepared to start on time. (<i>graded during Hands-On sessions</i>)	ALWAYS	OFTEN	SOMETIMES	HARDLY
Participates readily in class discussions, projects and activities. (<i>graded during Demonstrations</i>)	ALWAYS	OFTEN	SOMETIMES	HARDLY
Student readily engages in demonstrations. (<i>graded during Demonstrations</i>)	ALWAYS	OFTEN	SOMETIMES	HARDLY
Engages with other students in group, shows willingness to help out. (<i>graded during Hands-on sessions</i>)	ALWAYS	OFTEN	SOMETIMES	HARDLY

3. Lab Reports

Reports will be assigned to students to assess knowledge and understanding of course topics. Students are expected to write a double-spaced, 2-page report on the lecture topic where a report is assigned (see Course Schedule), and will be due by the lecture of the following week. A guideline for each report will be provided by the Instructor after the lecture. *Both electronic and hard copy submission is required. Electronic copies must be deposited to Sakai drop-box by the deadline.*

4. Quizzes

Quizzes will be administered to students to assess knowledge and understanding of the course topics. Quizzes will only be given for lessons indicated in the Course Schedule and will be given during the subsequent lecture period. For the last lecture, it will be given on the same day, at the end of the lecture.

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/>

COURSE SCHEDULE:

Topic	Weeks # (date)	Instructor	Assessment
Introduction and Facility Orientation Training	1 (1/27/20)	Mehmet Uzumcu and Steven Cancellieri, and Mariel Nigro	Participation
Animal supply vendors, initial testing, interpreting card info, IACUC protocols	2 (2/3/20)	Nancy Rossi/ Mehmet Uzumcu	Lab Report
REHS right to know training-1	3 (2/10/20)	REHS	Participation
REHS right to know training-2	4 (2/17/20)	REHS	Participation
Environment, enrichment, and NIH/USDA guidelines	5 (2/24/20)	Nancy Rossi	Quiz
Genotyping	6 (3/2/20)	Troy Roepke and Ali Yasrebi	----
Genotyping	7 (3/9/20)	Troy Roepke and Ali Yasrebi	Quiz
Spring Break	(3/14-22/20)		
Euthanasia & necropsy AVMA guidelines	8 (3/23/20)	Mehmet Uzumcu	Lab Report
Histology laboratory tour	9 (3/30/20)	RU Histopathology Core Facility (Michael Goedken and staff)	Lab Report

Zebrafish facility tour	10 (4/6/20)	Nelson Biol. Labs (Kathleen Flaherty)	Lab Report
Molecular Imaging	11 (4/13/20)	RU Molecular Imaging Center (Derek Adler)	Quiz
Aseptic surgical techniques	12 (4/20/20)	Jibing Yang (Veterinarian, RU CMR)	Quiz
Reproductive Parameters	13 (4/27/20)	Mehmet Uzumcu	Lab Report
Reproductive Parameters contd.	14 (5/4/20)	Mehmet Uzumcu	Quiz

FINAL EXAM/PAPER DATE AND TIME

No Final Exam.

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.

Cheating in a quiz or plagiarizing materials in your papers deprives you of the educational benefits of preparing these materials appropriately. It is personally dishonest to cheat on a quiz or to hand in a lab report based on unacknowledged words or ideas that someone else originated. It is also unfair, since it gives you an undeserved advantage over your fellow students who are graded on the basis of their own work. In this class we will take cheating very seriously. All suspected cases of cheating and plagiarism will be automatically referred to the Office of Judicial Affairs, and we will recommend penalties appropriate to the gravity of the infraction. To help protect you, and future students, from plagiarism, Turnitin may be used for your lab reports.

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 / <https://rutgers.campuslabs.com/engage/organization/scarletlisteners>

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