

Sensation & Perception Lab – 01:830:302:01

Main Canvas page <https://canvas.rutgers.edu/>

This Syllabus is Subject to Change

Spring 2022

Meeting Days, Times, and Venues

- Remote: No specified meeting time; 01-25-22 & 02-01-22
- In person: Tuesdays 10:20-11:40 am 02-08-22 - 04-18-22

- Make sure to keep an eye on your email and canvas notifications, as class cancellations could occur due to current pandemic.
- Masks are still required for in person meetings

Instructor's Name

Contact information: kp763@psych.rutgers.edu
Allow up to 2 business days for a response

Office hours: day, time and location:

- Office Hours available viz Zoom on Tuesdays from 12-1:00 pm OR by appointment

Faculty Coordinator: Dr. Mimi Phan (mphan@scarletmail.rutgers.edu)

Faculty Supervisor: Dr. Melchi Michel (melchi.michel@rutgers.edu)

List of Required Books &/or Materials

Required readings will be provided on CANVAS throughout the semester

Technology/Software Requirements:

Software for Remote Learning:

Rutgers Box account: (<https://box.rutgers.edu/>)

Rutgers Zoom Account: (<https://it.rutgers.edu/zoom/>)

Technology for Remote Learning:

Computer: Laptop or desktop computer. A tablet may be used in some cases.

Internet Connectivity: Preferably a high-speed connection. You may also use a wireless hotspot through your mobile provider.

Microphone (optional): This may be built into your device, but an external microphone or headset will provide better sound.

Webcam (optional): Many computers have one built in, but you can easily connect an external USB camera.

Computers:

Lab exercises require computers that run either Windows or Macintosh operating systems. Lab software is not compatible with operating systems used on android tablets, Chromebook or Ipad.

Note:

Learning remotely presents new challenges. For assistance with learning how to address these challenges, please consult the resources available here: https://rlc.rutgers.edu/remote_instruction

Please visit the [Rutgers Student Tech Guide](#) page for resources available to all students. If you do not have the appropriate technology for financial reasons, please email Dean of Students deanofstudents@echo.rutgers.edu for assistance. If you are facing other financial hardships, please visit the Office of Financial Aid at <https://financialaid.rutgers.edu/>.

The faculty and staff at Rutgers are committed to your success. Students who are successful tend to seek out resources that enable them to excel academically, maintain their health and wellness, prepare for future careers, navigate college life and finances, and connect with the RU community. Resources that can help you succeed and connect with the Rutgers community can be found at success.rutgers.edu, and nearly all services and resources that are typically provided in-person are now available remotely.

Learning Goals



The aim of this course is to acquaint students with scientific research within the context of learning psychology. We will be doing various lab exercises that will give you hands on experience with the research methods and important findings in Sensation and Perception. These exercises will give you opportunity to experience some phenomena first hand, as well as the opportunity to generate and test some hypotheses of your own. You'll also be able to improve some basic skills in using software, analyzing data and communicating scientific findings. Upon successful completion of this course, students will:

1. Develop scientific thinking skills, including how to form and test hypotheses and how to draw sound conclusions from results.
2. Demonstrate some well-known cognitive and perceptual phenomena by running lab

exercises.

3. Learn-by-doing the main research methods of the field.
4. Learn how to analyze data and evaluate hypotheses.
5. Learn research communication skills.
6. Improve computer literacy.

This laboratory class is meant to serve as a companion to the lecture class PSYCH-301. The conceptual and theoretical basis for the exercises and demonstrations are developed in lecture. For this reason, concurrent or past registration in PSYCH-301 is required.

This course has been certified as satisfying four of the Writing and Communication Learning Outcome Goals (including WCR and WCD) of the SAS Core Curriculum. Specifically, students will be able to:

- a) Respond effectively to editorial feedback from peers, instructors, and/or supervisors through successive drafts and revision (WCR);
- b) Communicate effectively in modes appropriate to a discipline or area of inquiry (WCD);
- c) Evaluate and critically assess sources and use the conventions of attribution and citation correctly;
- d) Analyze and synthesize information and ideas from multiple sources to generate new insights.

The Division of Student Affairs Diversity & Inclusion Statement

Excerpted (<http://inclusion.rutgers.edu/>):

“The Division of Student Affairs works to create an environment of inclusion which respects and affirms the inherent dignity, value, and uniqueness of all individuals, communities and perspectives. Our practices reflect awareness and understanding of the complexity of identity and the increasing interconnectedness of our world. It is our responsibility to promote and maintain a community of compassion, embracing the rich dimensions of diversity, and facilitating opportunities for understanding and the expression of both individual and shared truths.”

Current Academic Integrity Policy and Honor Pledge:

Overview: Rutgers University takes academic dishonesty very seriously. By enrolling in this course, you assume responsibility for familiarizing yourself with the Academic Integrity Policy and the possible penalties (including suspension and expulsion) for violating the policy. As per the policy, all suspected violations will be reported to the Office of Student Conduct. Academic dishonesty includes (but is not limited to):

- Cheating
- Plagiarism
- Aiding others in committing a violation or allowing others to use your work
- Failure to cite sources correctly
- Fabrication
- Using another person’s ideas or words without attribution—re-using a previous assignment
- Unauthorized collaboration
- Sabotaging another student’s work in doubt, please consult the instructor

Honor pledge: All students will need to sign the Rutgers Honor Pledge on every major exam, assignment, or other assessment as follows:

- *On my honor, I have neither received nor given any unauthorized assistance on this examination (assignment).*

Summary:

<http://nbacademicintegrity.rutgers.edu/home-2/academic-integrity-policy/>

Resources for Students:

<http://nbacademicintegrity.rutgers.edu/home-2/for-students/>

Self-Reporting Absence Application:

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.

Please note: Late assignments will be accepted up to 1 week from the original due date for a penalty. The penalty will be 10% of the maximum possible grade for the assignment. For example, if an assignment is worth 15 points the maximum score for a late assignment will be 13.5. Late assignments will not be accepted after the 1 week late period (the 1 week after the original due date) – at that point the assignment grade will be 0.

Course Structure and Requirements

Syllabus *Note that class meetings will not start until the 2nd week of Rutgers NB scheduled classes

Data Collection:

In this course we are doing lab exercises, not original research. All data for weekly exercises as well as the final project will be collected with either you or your classmates serving as the participants. Collecting data from anyone else (roommates, friends, family members, etc.) is never permitted.

Weeks Date Material & Assignments

Weeks	Date	Material & Assignments
1	1/24/2022	Introduction to course & Brief overview of syllabus (Recorded Lecture) Lecture on Basics of The Scientific Method (Recorded Lecture) Download PsychoPy Program (Assignment) Line Length Background (Pt. 1) (Recorded Lecture) Run Expt. 0: Line Length On your own (Assignment) Submit Excel Document with data from experiment 0: Line Length on Canvas (Assignment) Scientific Methods Worksheet (Assignment) (Remote)
2	1/31/2022	Psychophysical Methods & Line Length Background (Pt. 2) (Recorded Lectures) Basics on scientific writing: (Introduction Section) (Recorded Lecture) Review of statistics: Mean and Standard Deviation (Assignment) Line Length Assignment Pt. 1&2 (Assignment) (Remote)
3	2/07/2022	Basics on scientific writing: Methods Section and How to cite Tone Discrimination Background (Pt. 1) Run experiment 01: Tone Discrimination (In-Class Assignment) Submit Data for Tone Discrimination (Assignment)
4	2/14/2022	Basics on scientific writing: How to write a procedure (lecture) & How to present Figures and Tables (just slides) Tone Discrimination Background (Pt. 2) Tone Discrimination Reading Q's & Data Analysis (Assignment) Lab Report 1: Expt. 01: Tone Discrimination (Just Introduction, Methods, and Reference sections) Assigned
5	2/21/2022	Basics on scientific writing: How to write a Results Section) "Stroop Effect" Background (Pt. 1) Run Experiment 02: Stroop Task (In-Class Assignment) Assignment Due: Lab Report 1 on Expt. 01 Tone Discrimination

6	2/28/2022	Basics on scientific writing: How to write a Discussion Section) "Stroop Effect" Background (Pt. 2) Stroop Task Assignment (Assignment) How to make figures (In-Class Demonstration and Discussion)
7	3/7/2022	Visual STM Background (Pt.1) Run Expt. 03: Visual STM Lab Report 2: Stroop Experiment (Just Results, Discussion, and Reference Sections) (Assigned)
8	3/14/2022	Spring Break
9	3/21/2022	Visual STM Background (Pt.2) Assignment Due: Lab Report 2 (on Expt. 02, Stroop Effect)
10	3/28/2022	Background for experiment "Motion" Demonstration of Motion Experiment (In-Class) Motion Critical Thinking Assignment (Assignment) Experimental Critique Assignment and Thought Experiment (Assigned)
11	4/04/2022	Integration & Overview (Lab Report 3 Discussion) Discussion of previous assignments and Lab reports (Attendance Optional) Assignment Due: Experimental Critique and Thought Experiment
12	4/11/2022	Integration & Overview Lab Report 3 on Expt. 03 VSTM (Assigned) (All Sections (intro,methods,results,discussion,references) Experiment Quiz (15pts)
13	4/18/2022	Writing Workshop/ Review (Attendance Optional)
14	4/25/2022	**NO FORMAL CLASS; PLEASE SCHEDULE OFFICE HOURS IF WANT HELP WITH FINAL REPORT** Assignment Due: Lab Report 3 (Expt. 03) – Full lab report –30 points Friday, April 29, 11:59pm
15	5/02/2022	May 2- last day of class; MAY 3-4 : Reading days

The criteria for grading your work will be:

- Effort and class participation
- Demonstration of progress in understanding and using software tools
- Clarity of graphs
- Clarity of writing
- Demonstration of understanding basic perceptual concepts introduced in the labs

Standardized Rubric Across Sections

15 points	Lab Report 1 (Experiment 1: Tone Discrimination) Intro, Methods, Citations only
15 points	Lab Report 2 (Experiment 2: Stroop Effect) Results, Discussion, Citations only
30 points	Lab Report 3 (Experiment 3: Visual STM) Full lab report
10 points	Experiment Quiz
15 points	2-3 pages Experimental Critique and thought experiment
15 points	Reading Q's & Critical Thinking Assignments
100 points	Total

Grading Rubric

Rutgers Letter Grade Scheme will be as follows:

A	<100 % to 89.5%
B+	< 89.5 % to 84.5%
B	< 84.5% to 79.5%
C+	< 79.5 % to 74.5%
C	< 74.5 % to 69.5%
D	< 69.5 % to 59.5%
F	< 59.5 % to 0%

Section Specific

Quiz: There will be one quiz that will cover information found in the experiment background slides of the 4 experiments that will be run this semester.

Experimental Critique & Thought Experiment

Pick 1 of the experiments discussed throughout the course. In this 2–3 page assignment, provide critical reaction to the experiment and elaborate on it by proposing a 'hypothetical' experiment which would remedy the missing point(s) discussed in the reaction/critique. You should briefly discuss what kind of results you would expect from this thought experiment.

Take Home Reading Q's & Critical Thinking Assignments:

You will be asked to answer questions that will require you to think critically about experiments, define fundamental terms from the slides, analyze data, and display data in these assignments. They will be unique to each experiment.

Extra Credit:

Data for each experiment should be submitted the week the experiment is conducted. If all the data from each experiment is turned in (Line Length, Tone Discrimination, Stroop, and VSTM this will result in 5 bonus points added to the lowest lab report grade. The data for each experiment is 1 extra point. This is the ONLY extra credit opportunity in this class.

Student-Wellness Services: All of these services are being provided remotely during Fall 2020.

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / <http://health.rutgers.edu/medical-counseling-services/counseling/>

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professionals 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.

Crisis Intervention : <http://health.rutgers.edu/medical-counseling-services/counseling/crisis-intervention/>

Report a Concern: <http://health.rutgers.edu/do-something-to-help/>

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>.