

# Sensation and Perception Lab

01:830:302:02 Spring 2012  
Busch Psychology Building, Rm 105  
Tuesdays 3:20 PM – 6:20 PM

**Instructor:** Elio Santos

**E-mail:** [santos86@rci.rutgers.edu](mailto:santos86@rci.rutgers.edu)

**Office Hours:** By appointment, Busch Psychology Building, Room 219

## General goals for the course:

1. To provide an opportunity to experience perceptual phenomena first hand.
2. To learn how to design, conduct, analyze, and write-up experiments.
3. To learn how to use software tools to analyze and plot data.

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.

## Grading:

Your final grade will be based on the following:

1. Attendance and participation in the weekly labs (10%)
2. Weekly lab assignments
3. An original project report and presentation completed during the last several class meetings (90%)

Please note that every homework assignment will count towards your final grade. There are no tests or quizzes planned for this class.

The criteria for grading your work through the course of the semester 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

### Weekly Assignments:

We will be working on labs at each class meeting. After each lab is completed (data collection and analysis), you will be assigned a write-up of the lab that is due at an announced time. Write-ups will often consist of brief reports on methods, raw data, data analysis (graphs, charts, statistical tests, etc.), results and/or conclusions.

The weekly assignments will be graded on the pass/fail scale:

- P+: Excellent work
- P: Good work, pass
- P-: Minor problems, needs improvement
- F: Major problems, fail, requires redo

Scores on these weekly assignments will be used to adjust the grade given on the final project. A half letter grade will be added for 3 P+'s accumulated during the semester. A half letter grade will be subtracted for 3 P-'s accumulated during the semester. If an F is not redone, it will also cause a half letter grade deduction.

- 3 × P+'s: Add one-half letter grade
- P: No points added or deducted
- 3 × P-'s: Deduct one-half letter grade
- F: Deduct one-half letter grade if left uncorrected

Students who hand in the assignment on time and receive a failing grade will be given the option of handing in one revised version within one week of receipt of the graded assignment. The revised report will then be graded. No revisions of a failed assignment will be accepted after this one-week timeframe, and no subsequent revisions will be accepted after the first revision, although I will be available to meet with you to discuss the material and your performance. If at any time you are worried about your performance in this lab, please inform me as soon as possible. If you need to use SPSS to work on your data analysis, you can go to one of the computer labs on the various campuses ( <http://www.nbc.rutgers.edu/ccf/main/locations/> ).

Students must complete all laboratory assignments and reports individually unless otherwise noted. Collaborative reports will be given an F grade (see Academic Dishonesty Policy below). In addition, your assignments will be checked using "Turnitin", which is a software that compares your assignments to content on the Web, books, the work of students who have taken this class. You will also be required to agree to "Honor a Pledge" before submitting your assignment on the *Assignments* tab in Sakai.

### **Final Project:**

The final project is the writing of a full laboratory report based on an original experiment carried out in class during the final weeks of the semester. These reports will be given a letter grade (A, B+, B, C+, C, D, F). Final project is 90% of your final grade.

### **Participation and note taking:**

Participation is part of your grade. I expect all the students to ask questions and volunteer to answer the questions I ask when I lecture at the beginning of the class. All students need to take notes. Taking good notes is going to be part of your participation. There are going to be times when I decide check notes. **Take notes with pen/pencil and paper since you are not allowed to use any electronic device at the beginning of the class while I'm lecturing. That includes the computers in the lab and cell phones.** A final presentation at the end of the class is also part of your participation grade. Participation is 10% of your final grade.

### **Attendance Policy:**

If you miss a lab for a legitimate reason (e.g., illness) you must bring an official excuse note (e.g., a doctor's note). This will excuse you from performing that part of the assignment. If you need to miss a class for a planned absence in the future (e.g., a religious holiday), please contact me ([santos86@rci.rutgers.edu](mailto:santos86@rci.rutgers.edu)) as soon as possible so that we can schedule a make-up. Missed assignments that are not excused will be given a failing grade and will therefore deduct one-half letter grade from your final grade.

**You must arrive on time to class.** Excessive lateness prevents you from learning about the goals and content of the labs. If you are more than 20 minutes late, you will not be allowed to participate and your tardiness will be counted as an unexcused absence.

All course materials can be found on <http://sakai.rutgers.edu> after you log in. It is expected that you print out all materials before class.

### **Schedule of Labs:**

The following is a rough schedule of the course. I will email lab manuals before the class. Make sure to print them out. Changes and amendments may be made as the course progresses.

January 24	Intro to the course, Lab 1: Perception of line length (Graphs & Tables)
January 31	Lab 2: Pitch discrimination (Method, Results)
February 7	Lab 3: Center of gravity (Introduction)
February 14	Lab 4: Prism adaptation (Method)
February 21	Lab 5: Extrapolation of motion (Results)
February 28	Lab 6: Attention shift (Discussion)
March 6	Lab 7: Crowding (Figures, Tables, and Discussion)
March 13	No Class – Spring Recess
March 20	Lab 8: P-illusion (Title Page, Abstract, Results & References)
March 27	Design final project
April 3	Data collection for final projects
April 10	Data analysis for final projects
April 17	Final presentations – turn in final projects (tentative)
April 24	Reserved for any adjustments made to the schedule

### **Academic Dishonesty Policy:**

In science, there is absolutely no room for fraud or untruth. Our job as scientists is to search out facts, not just for ourselves but for society as a whole. Consequently, you should be very clear that, just as I expect you to learn about the topic matter, I also expect you to learn about scientific honesty. In the work that you present to me, falsifying, plagiarism, or copying without attribution will not be tolerated. Intentional ethical violations will result in failure for the material in question. For this course you should be paraphrasing and citing the source using APA format. Please check the school guidelines for further clarification of violations.

<http://academicintegrity.rutgers.edu/>

<http://academicintegrity.rutgers.edu/integrity.shtml>

You should also take a 20 minute interactive-tutorial on Plagiarism and Academic Integrity, <http://sccweb.scc-net.rutgers.edu/douglass/sal/plagiarism/Intro.html>

**If you decide to stay enrolled in this class after receiving this syllabus, I will assume you have read the entire syllabus and have agreed to all the policies outlined.**

# Sensation and Perception Lab

**Course Number:** 01:830:302:03

**Semester:** Spring 2012

**Course Meeting Days/Times:** Wednesday 8:40 AM – 11:40 AM

**Course Meeting Location:** Busch Psychology Building, Room 105

**Instructor:** Steven A. Cholewiak

**E-Mail:** [scholewi@rci.rutgers.edu](mailto:scholewi@rci.rutgers.edu)

**Office Hours:** By appointment, Busch Psychology Building, Room 162

## Learning goals:

Students will learn about leading terms, concepts, theoretical perspectives, empirical findings, and historical trends in Sensation & Perception. Students will apply basic research methods in psychology, including research design, data analysis, and interpretation, to standard lab problems. The core learning goals are:

1. To provide an opportunity to experience perceptual phenomena first hand.
2. To learn how to design, conduct, analyze, and write-up experiments.
3. To learn how to use software tools to analyze and plot data.

Students will use critical thinking, skeptical inquiry, and, when possible, the scientific approach to ask, answer and understand questions related to behavior and mental processes. Students will apply psychological concepts and content to become engaged citizens.

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

## Course Goals:

This lab will address a number of goals over the course of the semester. Specifically, the instructor will evaluate how well students:

- Respond effectively to editorial feedback from the instructor through successive drafts and revisions. Specifically, how well students incorporate feedback on submitted homeworks' grammar and style on subsequent homeworks and the final project.
- Communicate effectively on homeworks and the final project.
- Evaluate and critically assess peer reviewed journal sources and use the conventions of attribution and citation correctly.
- Analyze and synthesize information and ideas from multiple peer reviewed sources to generate new insights about psychological phenomena.

### **Grading:**

Your final grade will be based on three things:

1. Attendance and participation in the weekly lab
2. Weekly lab assignments
3. An original project report and presentation completed during the last several class meetings

Please note that every homework assignment will count towards your final grade (see 'Weekly Assignments' below). Attendance and homeworks are mandatory, so unexcused absences and late/unsubmitted homeworks will affect your grade in the class. There are no tests or quizzes planned for this class. The final grades for this course will not be curved or scaled.

The main criteria for grading your work through the course of the semester will be:

- Demonstration of understanding basic perceptual concepts introduced in the labs
- Clarity and format of writing & graphs
- Demonstration of progress in understanding and using the provided software tools
- Responding effectively to editorial feedback on previous homeworks
- Effort and class participation

### **Weekly Assignments:**

We will be working on labs at each class meeting. After each lab is completed (data collection and analysis), you will be assigned a write-up of the lab that is due the following Sunday evening at 11:55 PM. If the lab runs less than the allotted time, then you are encouraged to use the full class period to complete the assignment for that week. The weekly write-ups will often consist of brief (1-3 page) reports on methods, results (graphs, charts, statistical tests, etc.), and/or conclusions.

The weekly assignments will be graded on the pass/fail scale:

- P+: Excellent work, very minor issues, if any
- P: Good work, some content and/or formatting issues
- P-: A number of problems with content; needs improvement
- F: Major problems, fail; requires redo

Scores on the weekly assignments will be used to adjust the grade given on the final project. A half letter grade will be added for 3 P+'s accumulated during the semester. A half letter grade will be subtracted for 3 P-'s accumulated during the semester. If an F is not redone, it will also cause a half letter grade deduction.

- 3 × P+'s: Add one-half letter grade
- P: No points added or deducted
- 3 × P-'s: Deduct one-half letter grade
- F: Deduct one-half letter grade if left uncorrected

Students who hand in the assignment on time and receive a failing grade will be given the option of handing in one revised version within one week of receipt of the graded assignment. The revised report will then be graded. No revisions of failed assignments will be accepted after this one-week timeframe, and no subsequent revisions will be accepted after the first revision, although I will be available to meet with you to discuss the material and your performance.

*All laboratory assignments and reports must be completed by the individual student unless otherwise noted.* Collaborative reports will be given an F grade (see Academic Dishonesty Policy below).

### **Final Project:**

The final project is the writing of a full laboratory report based on an original experiment carried out in class during the final weeks of the semester. These reports will be given a letter grade (A, B+, B, C+, C, D, F) and will be evaluated using the SAS Course Goals.

### **Attendance Policy:**

If you miss a lab for a legitimate reason (e.g., illness) you must bring an official excuse note (e.g., a doctor's note). This will excuse you from performing that part of the assignment. If you need to miss a class for a planned absence in the future (e.g., a religious holiday), please contact me ([scholewi@rci.rutgers.edu](mailto:scholewi@rci.rutgers.edu)) as soon as possible so that we can schedule a make-up. Missed assignments that are not excused will be given a failing grade and will therefore deduct one-half letter grade from your final grade.

**You must arrive on time to class.** Excessive lateness prevents you from learning about the goals and content of the labs. Keep in mind that I record attendance and note tardy individuals. If you are more than 20 minutes late, you will not be allowed to participate and your tardiness will be counted as an unexcused absence.

### **Academic Dishonesty Policy:**

In science, there is absolutely no room for fraud or untruth. Our job as scientists is to search out facts, not just for ourselves but for society as a whole. Consequently, it should be very clear that, just as I expect you to learn about the topic matter, I also expect you to learn about scientific honesty. In the work that you present to me, falsifying, plagiarism, or copying without attribution will not be tolerated. Intentional ethical violations will result in failure for the material in question and reporting to the administration. Please check the school guidelines for further clarification of violations:

<http://academicintegrity.rutgers.edu/>

[http://academicintegrity.rutgers.edu/files/documents/AI\\_Policy\\_9\\_01\\_2011.pdf](http://academicintegrity.rutgers.edu/files/documents/AI_Policy_9_01_2011.pdf)

### Schedule of Labs:

The following is a rough schedule of the course. I will email lab manuals approximately 1 week before the class. **Make sure to print them out!** Changes and amendments may be made as the course progresses.

January 18	<b>NO LAB</b> – 1 <sup>st</sup> day of Wednesday classes (see <a href="http://scheduling.rutgers.edu/calendar.shtml">http://scheduling.rutgers.edu/calendar.shtml</a> )
January 25	Introduction to the course, Lab 1: Perception of line length (Graphs & Tables)
February 1	Lab 2: Pitch discrimination (Method, Results)
February 8	Lab 3: Center of gravity (Introduction)
February 15	Lab 4: Prism adaptation (Method)
February 22	Lab 5: Extrapolation of motion (Results)
February 29	Lab 6: Attention shift (Discussion)
March 7	Lab 7: Crowding (Results)
March 14	<b>NO LAB</b> – Spring Recess (see <a href="http://scheduling.rutgers.edu/calendar.shtml">http://scheduling.rutgers.edu/calendar.shtml</a> )
March 21	Lab 8: P-illusion (Title Page, Abstract, and Discussion)
March 28	Lab 9: Design final project, abstract, title
April 4	Data collection for final projects
April 11	Data analysis for final projects
April 18	Turn in final projects, final presentation
April 25	Reserved for course adjustments and changes to syllabus
Final Exam	<b>NO LAB</b>

All course materials can be found on <http://sakai.rutgers.edu> after you log in. It is expected that you print out ALL materials before class. The printer in the classroom is for printing out SPSS output and data-related materials ONLY.

If you decide to stay enrolled in this class after receiving this syllabus, I will assume you have read the entire syllabus and have agreed to all the policies outlined.



# SYLLABUS

## Course

Sensation and Perception Lab

01:830:302:04

Spring 2012

Wednesday 3:20 - 6:20PM

## Instructor

Marta T. Suárez

E-mail: [martats@rci.rutgers.edu](mailto:martats@rci.rutgers.edu)

Office Hours: Tuesday 11:00am – 12:00pm or by appointment.

Office: Psychology Building Room 135

## General goals for the course

1. To provide an opportunity to experience perceptual phenomena firsthand.
2. To learn how to perform data collection, and basic data manipulation and analysis.
3. To begin to think about experimental design.
4. To learn how to use software tools to analyze and plot data.
5. To introduce the practice of scientific writing.

This laboratory class is meant to serve as a companion to the lecture class Sensation & Perception (01:830:301). The conceptual and theoretical basis for the exercises and demonstrations are developed in lecture. For this reason, concurrent or past registration in Sensation & Perception is required.

## Class website

- The class has a Sakai website, where the latest course information is posted. The PowerPoint slides for the classes will also be posted there, and will be accessible after the labs.
- The class website also has this syllabus and the lab assignments.
- Grades will be posted in Gradebook 2 on sakai.

## Grading

Your final grade will be based on three criteria:

1. Attendance (see Attendance Policy below)
2. Weekly lab assignments (100 points)
3. An original project report completed during the last several class meetings (100 points).

Every assignment will count towards your grade. There are no tests or quizzes planned. *Grades for this course will not be curved or scaled.*

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

**Final Project:** The final project consists of a full laboratory report, based on an original experiment carried out in class during the final weeks of the semester. The report will earn a letter grade (A, B+, B, C+, C, D, F).

**Weekly Assignments:** We will be working on labs at each class meeting. After each lab is completed (data collection and analysis), you will be assigned a write-up of the lab. Each write-up must be saved as a MS Word file and uploaded to sakai (as an attachment) **before 3:00PM the day of the next class meeting**. These write-ups will consist of brief (1-2 page) reports on methods, raw data, data analysis (graphs, charts, statistical tests, etc.), results and/or conclusions.

Students who submit an assignment on time and receive a failing grade will have the option of submitting one revised version within one week of receipt of the graded assignment. The revised assignment will then be graded. No revisions of a failed assignment will be accepted after this one-week delay. No subsequent revisions will be accepted. *I will not accept revisions on assignments that earned a passing grade on first submission, or that were initially submitted late.*

The weekly assignments will be graded on a "P" scale:

- P+ Excellent work
- P Good, pass
- P- Minor problems, needs improvement
- F Fail, requires redo

Weekly assignment scores will be used to adjust the grade earned on the final project. A half letter grade will be added for 3 P+'s accumulated during the semester. A half letter grade will be deducted for 3 P-'s accumulated during the semester. If an F is not redone, it will also cause a half letter grade deduction.

- 3 P+ Add one-half letter grade
- P No points added or deducted
- 3 P- Deduct one-half letter grade
- F Deduct one-half letter grade if left uncorrected

All laboratory assignments and reports must be completed by the individual student. Collaborative reports will be assigned 0 points (an F grade). If in doubt, refer to: [academicintegrity.rutgers.edu/academic-integrity-at-rutgers](http://academicintegrity.rutgers.edu/academic-integrity-at-rutgers)

### **Attendance Policy**

If you miss a lab meeting for a legitimate reason (e.g. illness, religious holiday) you must bring an official excuse note (e.g. note from a physician or dean). This will excuse you from performing that part of the assignment. Missed assignments that are not excused will earn an F. *You must arrive on time to class*. Excessive lateness prevents you from learning about the goals and content of the lab projects. If you arrive more than 15 minutes late you will not be allowed to enter and participate that day, and your absence will be counted as unexcused.

### **Students with Disabilities**

Full disability policies and procedures are available at <http://disabilityservices.rutgers.edu/>  
Students with disabilities requesting accommodations must follow the procedures outlined at <http://disabilityservices.rutgers.edu/request.html>

### Schedule of Labs

The following is a rough schedule of the course. Amendments may be made as the course progresses.

January 25	Perception of line length
February 1	Prism adaptation
February 8	Center of gravity
February 15	Pitch discrimination
February 22	Extrapolation of motion
February 29	Crowding effect
March 7	Library search
March 14	SPRING RECESS – no class
March 21	P illusion
March 28	Shape perception
April 4	Design final project, abstract, title page <b>MUST BE SUBMITTED BEFORE YOU LEAVE CLASS</b>
April 11	Data collection for final project
April 18	Finish data collection, data analysis
April 25	Open class hours for consultation
May 2	Final report due

# Sensation and Perception Lab

01:830:302:06 Spring 2012  
Busch Psychology Building, Rm 105  
Thursday 6:40 PM – 9:30 PM

**Instructor:** Nicholas Ross

**E-mail:** [nickross@rci.rutgers.edu](mailto:nickross@rci.rutgers.edu)

**Office Hours:** By appointment, Busch Psychology Building, Rm 219.

**Sakai site:** <https://sakai.rutgers.edu:443/portal/site/29df1b11-8dbb-4225-8a52-19391ddfc4da>

## Core Curriculum Learning Goals:

**GOAL s2 – Respond effectively to editorial feedback from peers, instructors, and/or supervisors through successive drafts and revision.**

**GOAL t – Communicate effectively in modes appropriate to a discipline or area of inquiry.**

**GOAL u – Evaluate and critically assess sources and use the conventions of attribution and citation correctly.**

**GOAL v – Analyze and synthesize information and ideas from multiple sources to generate new insights.**

## General goals for the course:

8. To provide an opportunity to experience perceptual phenomena first hand.
9. To learn how to design, conduct, analyze, and write-up experiments.
10. To learn how to use software tools to analyze and plot data.

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.

## Grading:

Your final grade will be based on three things:

4. Attendance (see Attendance Policy below)
5. Weekly lab assignments

6. An original project report and maybe a presentation completed during the last several class meetings

Every assignment will count towards your grade. There are no tests or quizzes planned. *Grades for this course will not be curved or scaled.*

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
- Ability to learn and use APA formatting

### **Attendance Policy:**

If you miss a lab meeting for a legitimate reason (e.g. illness, religious holiday) you must bring an official excuse note (e.g. doctor's note). This will excuse you from performing that part of the assignment. Missed assignments that are not excused will be given a failing grade. ***You must arrive on time to class.*** Excessive lateness prevents you from learning about the goals and content of the lab projects. If you are more than 30 minutes late you will not be allowed to enter and participate that day and your absence will be counted as an unexcused absence.

### **Final Project:**

The final project is the writing of a full laboratory report based on an original experiment carried out in class during the final weeks of the semester. These reports will be given a letter grade (A, B+, B, C+, C, D, F).

### **Weekly Assignments:**

We will be working on labs at each class meeting. After each lab is completed (data collection and analysis), you will be assigned a write-up of the lab which will be due at an announced time. Write-ups will often consist of brief (1-2 page) reports on methods, raw data, data analysis (graphs, charts, statistical tests, etc.), results and conclusions. Late write-ups will not be accepted.

Students who hand in the assignment on time and receive a failing grade will be given the option of handing in one revised version within one week of receipt of the graded assignment. The revised report will then be graded. No revisions of a failed assignment will be accepted after this one-week delay, and no subsequent revisions will be accepted

after the first revision, although I will be available to meet with you to discuss the material and your performance. You may not revise a P grade to receive a P+.

The weekly assignments will be graded on the "P" scale:

- P+: Excellent work
- P: Good, pass
- P-: Minor problems, needs improvement
- F: Fail, requires redo

Scores on these weekly assignments will be used to adjust the grade given on the final project. A half letter grade will be added for 3 P+'s accumulated during the semester. A half letter grade will be subtracted for 3 P-'s accumulated during the semester. If an F is not redone, it will also cause a half letter grade deduction.

- 3 P+'s: Add one-half letter grade
- P: No points added or deducted
- 3 P-'s: Deduct one-half letter grade
- F: Deduct one-half letter grade if left uncorrected

In addition, I will monitor how well each student improves and learns over the course of the semester and I will take that into consideration when giving the final grade.

All laboratory assignments and reports must be completed by the individual student. Collaborative reports will be given an F grade. Please see Academic Dishonesty Policy below.

### **Academic Dishonesty Policy:**

In science, there is absolutely no room for fraud or untruth. Our job as scientists is to search out facts, not just for ourselves but for society as a whole. Consequently, you should be very clear that, just as I expect you to learn about the topic matter, I also expect you to learn about scientific honesty. In the work that you present to me, falsifying, plagiarism, or copying without attribution will not be tolerated. Intentional ethical violations will result in failure for the material in question. Please check the school guidelines for further clarification of violations.

*Take a 20 minute interactive-tutorial on Plagiarism and Academic Integrity,  
<http://sccweb.scc-net.rutgers.edu/douglass/sal/plagiarism/Intro.html>*

### **Schedule of Labs:**

The following is a rough schedule of the course. Changes and amendments may be made as the course progresses.

January 26	Introduction to the course, Lab 1: Perception of line length (Graphs & Tables)
February 2	Lab 2: Pitch discrimination (Method, Results)
February 9	Lab 3: Center of gravity (Introduction)
February 16	Lab 4: Prism Adaptation (Method)
February 23	Lab 5: Extrapolation of Motion (Results)
March 1	Lab 6: Attention Shift (Discussion)
March 8	Lab 7: Crowding (Results)
March 15	<b>No class- Spring break</b>
March 22	Lab 8: P-illusion (Title Page, Abstract, and Discussion)
March 29	Lab 9: Design final project, abstract, title
April 5	Data collection for final projects
April 12	Data analysis for final projects
April 19	LAST DAY---Turn in final projects
	Last day of Thursday classes is 4/26, so we have an extra in case of snow

**All course materials can be found on <http://sakai.rutgers.edu> after you log in. It is expected that you print out ALL materials before class. The printer in the classroom is for printing out SPSS output and data-related materials ONLY.**

**If you decide to stay enrolled in this class after receiving this syllabus, I will assume you have read the entire syllabus and have agreed to all the policies outlined.**