San José State University
Department of Psychology
PSYC 121E, Advanced Research Methods: Psychophysiology Lab
Section 20 & 21
Spring 2013

Instructor: Wei-Ju Chen
Office Location: DMH 230
Telephone: (408) 924-5614
Email: Wei-ju.Chen@sjsu.edu
Office Hours: Wed 1:25 to 2:30 pm, or by appointment
Class Days/Time: Lecture: Tue 9:00 to 10:00 pm
Lab: Tue 10:30 to 1:30 pm
Classroom: Lecture: DMH 339
Lab: DMH 339
Prerequisites: PSYC 30, PSYC 100W, and PSYC 120 (pre/conrequisite)
Preferred Method of Contact: By email or in person.

Desire2Learn (D2L)
This course will use Desire2Learn as an online resource supplement. Announcements, additional readings, lecture slides, assignments, and other course materials will be posted on this site. You will be asked to submit certain assignments online, in addition to submitting a printed copy to the instructor. D2L will be updated throughout the semester. You are responsible to check this site regularly. However, use of D2L is not a substitute for attending this course. This site contains:
- Announcements
- Readings
- Lecture slides or notes
- Handouts
- Dropbox for assignment submission
- Grade roster
Accessing Course Desire2Learn Site
To access the site go to http://sjsu.desire2learn.com
Username = firstname.lastname, but may have an appended number (e.g., joshua.doe2)
Password = Your initial D2L password is your 9 digit SJSU ID number.
See the online tutorial for additional login and usage information:
Desire2Learn Student Tutorial: http://www.sjsu.edu/ecampus/students/D2L_students/

Course Description
This course is an intensive experiential introduction to applied laboratory work in human psychophysiology and hormonal influences on human behavior. We will focus on experimental methodology, data analysis, and laboratory technique.

Learning Outcomes
Course Learning Outcomes (CLOs)
Upon successful completion of this course, students will be able to:

  CLO1 – understand different research methods and designs as well as laboratory work in the field.
  CLO2 – critically evaluate research studies and contemporary issues.
  CLO3 – identify the ethical issues in research and follow the ethical guidelines.
  CLO4 – design and conduct research studies.
  CLO5 – know the process of collecting and analyzing saliva samples to assess neuroendocrine stress reactivity.
  CLO6 – conduct appropriate statistical analyses and interpret the results.
  CLO7 – write research reports using APA style.
  CLO8 – give a professional research presentation.

Program Learning Outcomes (PLO)
Upon successful completion of the psychology major requirements…

  PLO1 – Knowledge Base of Psychology – Students will be able to identify, describe, and communicate the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
  PLO2 – Research Methods in Psychology – Students will be able to design, implement, and communicate basic research methods in psychology, including research design, data analysis, and interpretations.
  PLO3 – Critical Thinking Skills in Psychology – Students will be able to use critical and creative thinking, skeptical inquiry, and a scientific approach to address issues related to behavior and mental processes.
PLO4 – Application of Psychology – Students will be able to apply psychological principles to individual, interpersonal, group, and societal issues.

PLO5 – Values in Psychology – Students will value empirical evidence, tolerate ambiguity, act ethically, and recognize their role and responsibility as a member of society.

Required Texts/Readings

Text


Readings

- Assigned readings will be posted on D2L.

Other equipment / material requirements

- Access to SPSS 17, 18, 19, or 20.
  - Computers in the Statistics Lab (in DMH) and in the Clark Hall Computer Lab should have SPSS.
  - SPSS Software can also be purchased at the help desk in Clark Hall.

Definition of a Credit Hour

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of forty-five hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.

As an example, the expectation of work for a 3-credit course is 150-minutes of direct faculty instruction and six hours of out-of-class student work each week.

Library Liaison

Bernd Becker
Email: Bernd.Becker@sjsu.edu
Libguide: [http://libguides.sjsu.edu/psychology](http://libguides.sjsu.edu/psychology)
Classroom Protocol

- Please be respectful of other students and the instructor.
- Turn off cell phones, pagers, and any other electronic devices that may cause distractions to the class, or put them on silent before class. Electronic devices are not permitted during exams.
- When we conduct experiments and run cortisol assays, keep the lab organized and clean up after use. Please do not take away any equipment or materials that belong to the lab.
- Please arrive on time. If you must arrive late or leave early, please do so without disruption to the class.
- Attendance is essential. Absences may negatively affect your grade, as you may miss important information, in-class activities, etc. If you are absent, you should consult your classmates to learn about any announcements made in class.
- You will be working with other students in groups. Therefore, active participation is required. Those who do not participate or do only minimal work in group projects will get their individual points deducted.
- You are responsible for regularly checking D2L, your email account (as listed in MySJSU), and the messaging system through MySJSU for course announcements and other course materials.

Recording of Class Lectures

Common courtesy and professional behavior dictates that you notify someone when you are recording him/her. You must obtain the instructor’s permission to make audio or video recordings in this class. This permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material. In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.

Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor-generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic calendar web page located at http://www.sjsu.edu/academic_programs/calendars/academic_calendar/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.
Assignments and Grading Policy

Readings:
You are required to read the assigned readings. The due dates for the readings are listed in the course schedule.

Project:
In this course, there will be one research project that involves assessing neuroendocrine stress reactivity. In groups of 3 or 4 students, you will develop research topics, do literature reviews, design your studies, conduct the studies, run the cortisol assays, analyze the data, and write an APA-style research report. The topics and methods must be approved by the instructor before you conduct the study. Detailed information will be provided later.

IRB Training and Proposal: You will write an IRB proposal for your group project. In addition, students are required to complete the IRB training and acquire the certificate through either National Institute of Health (NIH) or Collaborative Institutional Training Initiative (CITI) online. The training will help students understand the ethical issues and guidelines in conducting research. You can complete the online tutorial at http://phrp.nihtraining.com/users/login.php (through NIH) or at https://www.citiprogram.org/Default.asp (through CITI).

Presentation: Your group will do an oral presentation on the day of the final, which is Wednesday, May 15, from 7:15 to 9:30.

Final Paper: You will write an APA-style research report for your project. The abstract, method, and results sections can be completed as a group. However, the introduction and discussion sections must be written individually.

Participation:
Active participation is required. You will evaluate each other’s participation and contribution to the group projects. Those who do not participate or do only minimal work will get their individual points deducted.

Article Summaries:
You will write articles summaries for two of the articles you will discuss in your final paper. The summaries are submitted individually. Due dates are listed in the course schedule.

Late Assignments:
You should submit all the assignments on time. You will lose 10% of the points of the assignment for each day that it is late. However, the oral presentation must be completed on time.
Extra Credit Opportunities:
There may be some extra credit opportunities throughout the semester. They will be announced in class or posted online.

Grading

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article Summaries (total)</td>
<td>60</td>
<td>20%</td>
</tr>
<tr>
<td>Article Summary 1</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Article Summary 2</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>IRB Proposal</td>
<td>30</td>
<td>10%</td>
</tr>
<tr>
<td>Oral Presentation</td>
<td>60</td>
<td>20%</td>
</tr>
<tr>
<td>Participation</td>
<td>45</td>
<td>15%</td>
</tr>
<tr>
<td>Final Paper (total)</td>
<td>105</td>
<td>35%</td>
</tr>
<tr>
<td>Group Abstract</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Individual Introduction</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Group Method Section</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Group Result Section</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Individual Discussion</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>References</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Format &amp; APA Style</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>300</td>
<td>100%</td>
</tr>
</tbody>
</table>

The final course grades will be based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>100-97%</td>
</tr>
<tr>
<td>A</td>
<td>93-96%</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
</tr>
<tr>
<td>B+</td>
<td>87-89%</td>
</tr>
<tr>
<td>B</td>
<td>83-86%</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
</tr>
<tr>
<td>C+</td>
<td>77-79%</td>
</tr>
<tr>
<td>C</td>
<td>73-76%</td>
</tr>
<tr>
<td>C-</td>
<td>70-72%</td>
</tr>
<tr>
<td>D+</td>
<td>67-69%</td>
</tr>
<tr>
<td>D</td>
<td>63-66%</td>
</tr>
<tr>
<td>D-</td>
<td>60-62%</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60%</td>
</tr>
</tbody>
</table>

Notes:
The assignments, grade points, and course schedule are subject to change at the instructor’s discretion. Any changes will be announced in class and/or posted on D2L.
University Policies

Academic integrity

Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The University’s Academic Integrity policy, located at http://www.sjsu.edu/senate/S07-2.htm, requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include your assignment or any material you have submitted, or plan to submit for another class, please note that SJSU’s Academic Policy S07-2 requires approval of instructors.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the Disability Resource Center (DRC) at http://www.drc.sjsu.edu/ to establish a record of their disability.

Student Technology Resources

Computer labs for student use are available in the Academic Success Center located on the 1st floor of Clark Hall and on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library. A wide variety of audio-visual equipment is available for student checkout from Media Services located in IRC 112. These items include digital and VHS camcorders, VHS and Beta video players, 16 mm, slide, overhead, DVD, CD, and audiotape players, sound systems, wireless microphones, projection screens and monitors.

Learning Assistance Resource Center

The Learning Assistance Resource Center (LARC) is located in Room 600 in the Student Services Center. It is designed to assist students in the development of their full academic potential and to inspire them to become independent learners. The Center's tutors are trained and nationally certified by the College Reading and Learning Association (CRLA). They provide content-based tutoring in many lower division courses (some upper division) as well as writing and study skills assistance. Small group, individual, and
drop-in tutoring are available. Please visit the LARC website for more information at http://www.sjsu.edu/larc/.

**SJSU Writing Center**

The SJSU Writing Center is located in Room 126 in Clark Hall. It is staffed by professional instructors and upper-division or graduate-level writing specialists from each of the seven SJSU colleges. Our writing specialists have met a rigorous GPA requirement, and they are well trained to assist all students at all levels within all disciplines to become better writers. The Writing Center website is located at http://www.sjsu.edu/writingcenter/about/staff/.

**Peer Mentor Center**

The Peer Mentor Center is located on the 1st floor of Clark Hall in the Academic Success Center. The Peer Mentor Center is staffed with Peer Mentors who excel in helping students manage university life, tackling problems that range from academic challenges to interpersonal struggles. On the road to graduation, Peer Mentors are navigators, offering “roadside assistance” to peers who feel a bit lost or simply need help mapping out the locations of campus resources. Peer Mentor services are free and available on a drop-in basis, no reservation required. The Peer Mentor Center website is located at http://www.sjsu.edu/muse/peermentor/

**Student Success and Wellness**

Attending to your wellness is critical to your success at SJSU. I strongly encourage you to take advantage of the workshops and programs offered through various Student Affairs Departments on campus such as Counseling Services, the SJSU Student Health Center/Wellness & Health Promotion Dept., and Career Center. See http://www.sjsu.edu/wellness or http://www.sjsu.edu/counseling/Workshops/ for workshop/events schedule and links to many other services on campus that support your wellness! You may go to http://events.sjsu.edu to register for any one of the workshops.
### PSYC 121E / Advanced Research Methods: Psychophysiology Lab, Spring 2013, Course Schedule

**Table 1 Course Schedule**

<table>
<thead>
<tr>
<th>Wk</th>
<th>Date</th>
<th>Topic/Activity</th>
<th>Readings Due</th>
<th>Assignments Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>T 1/29</td>
<td>Introduction; Review; Stress; Form Groups</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>T 2/5</td>
<td>Stress; TSST; Research Methods &amp; Design; IRB; Meet with Groups</td>
<td>Lambert &amp; Kinsley (2011); Kirschbaum, Pirke, &amp; Hellhammer (1993)</td>
<td>IRB Training</td>
</tr>
<tr>
<td>4</td>
<td>T 2/12</td>
<td>Ethics; IRB; Research Proposal; Meet with Groups</td>
<td></td>
<td>IRB Training</td>
</tr>
<tr>
<td>5</td>
<td>T 2/19</td>
<td>Method Section; IRB; Meet with Groups</td>
<td>TBD</td>
<td>IRB Proposal Draft due</td>
</tr>
<tr>
<td>6</td>
<td>T 2/26</td>
<td>TSST Training</td>
<td>TBD</td>
<td>Submit IRB</td>
</tr>
<tr>
<td>7</td>
<td>T 3/5</td>
<td>TSST Training</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>T 3/12</td>
<td>Run Participants</td>
<td></td>
<td>AS 1</td>
</tr>
<tr>
<td>9</td>
<td>T 3/19</td>
<td>Run Participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>M 3/25 to F 3/29: Spring Recess</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>T 4/2</td>
<td>Run Participants</td>
<td></td>
<td>Group Method Draft due</td>
</tr>
<tr>
<td>12</td>
<td>T 4/9</td>
<td>Run Participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>T 4/16</td>
<td>Cortisal Assays; Data Analysis</td>
<td>TBD</td>
<td>AS 2</td>
</tr>
<tr>
<td>14</td>
<td>T 4/23</td>
<td>Cortisal Assays; Data Analysis</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>T 4/30</td>
<td>APA-Style Research Report; Cortisal Assays; Data Analysis</td>
<td></td>
<td>Group Results Draft due</td>
</tr>
<tr>
<td>16</td>
<td>T 5/7</td>
<td>Cortisal Assays; Data Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Wed, May 15 7:15 - 9:30</td>
<td>Final Oral Presentation</td>
<td></td>
<td>Final Paper</td>
</tr>
</tbody>
</table>

- TBD = to be determined; AS = article summary
- The course schedule is subject to change. Any changes will be announced in class or posted on D2L