Contact Information

Instructor: Dr. Megumi Hosoda
Office Location: DMH 315
Telephone: (408) 924-5637
Email: megumi.hosoda@sjsu.edu
Office Hours: Wed 4:30-5:30p.m.
Class Days/Time: M W 3:00 – 4:15p.m.
Classroom: DMH 226B
Prerequisites: Stat 95 (or equivalent)

Faculty Web Page and MYSJSU Messaging

The syllabus will be posted at http://www.sjsu.edu/psych/Syllabus/Stat_115. Course materials such as syllabus, handouts, and homework assignments can be found on my faculty web page at http://www.sjsu.edu/people/megumi.hosoda. You are responsible for regularly checking with the messaging system through MySJSU to learn any updates.

Course Description

Statistical analysis at the intermediate level; descriptive statistics, t-statistic, chi-square, analysis of variance, correlation and regression, and topics in experimental design; use of a statistical program, Statistical Package for Social Sciences (SPSS) 21.0 for Windows, for statistical analyses and interpretation. Prerequisite: Stat 95 (or equivalent)

Course Goals and Learning Objectives

Course Learning Outcomes (CLO)

The major goal of this course is to provide students with the solid foundation in statistics, by introducing them to the various types of statistics used in psychology and other social sciences. Students will examine the logic and strategies of scientific research designs and will learn how to use appropriate inferential statistics to make sense out of data. At the
end of the course, students should be able to understand the “what, when, and how” of
statistics. That is, students will learn what statistics are available, when to use specific
statistics, and how to interpret results.

Upon successful completion of this course, students will be able to:

CLO1 - Understand the logic of statistical concepts.

CLO2 - Use appropriate statistical methods to solve quantitative problems and
test hypotheses.

CLO3 - Understand the logic and strategies of scientific research designs

CLO4 - Run statistical analyses using SPSS and interpret statistical information
presented in SPSS output

CLO5 – Write results in APA style

Program learning outcomes (PLOs)
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
Textbook
reserved in the King Library under my name.
Other material requirements

1. A flash drive for your data files and SPSS outputs
2. A calculator (it doesn’t have to be a scientific calculator)
3. Five SCANTRON FORM NO.882-E sheets for examinations
4. Access to SPSS software

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. This means, for example, for a 3-credit course, the work load is 150 minutes of class time and six hours of out-of-class time each week. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

Course requirements include exams and homework assignments. Tentative course calendar includes exam dates, assignment due dates, date of a final exam.

NOTE that University policy F69-24, “Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.”

Grading Policy

Your letter grade for this course will be based on a total score obtained from five exams and homework assignments (a total point might change due to a change in schedule) and will be assigned based on the following grading distribution.

<table>
<thead>
<tr>
<th>Tentative</th>
<th>Total Point Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Five examinations</td>
<td>420 pts (58.7%)</td>
</tr>
<tr>
<td>Homework assignments</td>
<td>295.5 pts (41.3%)</td>
</tr>
<tr>
<td></td>
<td>715.5 (tentative)</td>
</tr>
</tbody>
</table>

Examinations (420 points)(tentative)

There will be five examinations. These exams will test your knowledge and understanding of course material. The exams will consist of multiple-choice items, short essay questions, and calculations. The final exam will NOT be cumulative. Remember to bring a #2 pencil, an eraser, a calculator, and a scantron (No. 882-E) to
class for each exam.

Make-up Exams
Make-up exams will be given ONLY under the most extraordinary circumstances. You will need to bring an official supporting document (e.g., letter from a medical doctor testifying that the student was incapable of attending class to take the exam).

If you know that you will miss an exam, let me know as far in advance as possible. We will arrange a time so that you can take the exam early.

If you miss an exam, you will get a zero point on the exam.

Homework Assignments (293 points)(tentative)
There will be a total of twelve homework assignments. Homework assignments will require either hand calculations and/or SPSS statistical analyses (the number of homework assignment might change due to a change in schedule). Some assignments will require producing a brief result section in APA style and/or graphing. The due dates are listed in the syllabus.

A late homework assignment will be accepted with a substantial penalty (20% reduction of the total possible points). This means that even if you answer all of the questions correctly, your score can never be higher than 20% of the total possible points (i.e., the highest score you would receive is a B-). Obviously, handing in a late homework assignment will hurt your grade in the end. Thus, I encourage you to turn each homework assignment in on the scheduled due date.

At my discretion, you could be asked to redo a homework assignment. However, keep in mind that this really occurs. Again, the highest possible score on the redone assignment will be 90% of the total possible points (10% reduction of the total possible points).

Note that any homework assignments sent via email will not be accepted.

Extra Credit
There will be three bonus homework assignments and bonus questions in some exams.

Tips to help you succeed in Stat115

1. Attend all classes, arrive on time, and take good notes.
2. Start studying at least two weeks before each exam. Form a study group with fellow students.
3. Read assigned readings before each class; read each chapter at least twice.
4. Practice working through the formulas with different data sets.
5. Ask questions in class and during office hours. I am available to help anyone having difficulty in the class. I am the resource person.
6. Make flashcards for important concepts and terms.
7. Visit Peer Connections if you need tutoring.
8. Complete assignments as soon as the relevant information is presented in class.
Classroom Protocol

These policies are intended to create a classroom environment conducive to learning. Please…

1. Arrive for class on time. Arriving late disrupts other students and interferes with continuity of the lectures and class activities. If for any reason you cannot avoid being late, please enter the class and take a seat quietly. This will minimize disturbance of the lecture and the concentration of your fellow classmates. Do not come in late and enter into a conversation to catch up on information you missed or expect information you missed to be repeated. Leaving early is equally disruptive; please be considerate.
2. Be polite and respectful to other people in the class.
3. Do not carry on conversations with others during class.
4. No cell phone use for text messaging, emailing, or talking during any class! If you anticipate an emergency call, please let me know in advance.
5. Turn off all cell/smart phones and any other devices before class begins.
6. Do not work on any other course material during class, including studying for other exams.
7. Do not bring a laptop to class. You do not need it for this course.
8. Do not use a cell/smart phone in lieu of a calculator during an exam.

Violations of classroom protocol will result in a verbal warning and expulsion from class.

University Policies

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 year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/duedates/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course.

- “Common courtesy and professional behavior dictate 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. Such 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.”

- “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.”

**Academic integrity**

Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The [University Academic Integrity Policy S07-2](http://www.sjsu.edu/senate/docs/S07-2.pdf) 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](http://www.sjsu.edu/studentconduct/) is available at [http://www.sjsu.edu/studentconduct/](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 are caught cheating on an exam, your course grade will be an F. 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 Integrity 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](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) requires that students with disabilities requesting accommodations must register with the [Accessible Education Center](http://www.drc.sjsu.edu/) (AEC) at [http://www.drc.sjsu.edu/](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](http://www.sjsu.edu/at/asc/) located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs are available at the Psychology statistics lab (DMH 350). Computers are also available in the Martin Luther King Library. SPSS will be available in the computer labs, the Psychology statistics lab, and on laptops in the Martin Luther King Library. A student version of SPSS could be purchased at Help Desk in the Clark Hall ($15).
SJSU Peer Connections

Peer Connections, a campus-wide resource for mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).

Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit Peer Connections website at http://peerconnections.sjsu.edu for more information.

SJSU Counseling Services

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit Counseling Services website at http://www.sjsu.edu/counseling.
# Stat115 Intermediate Statistics Spring 2014

## Course Schedule

This course will follow the syllabus to the extent possible. However, the timing and specific nature of topics may change. Any changes will be announced in class as far in advance as possible. You are responsible for keeping informed of any changes made to the class schedule.

<table>
<thead>
<tr>
<th>Date</th>
<th>Class Topic</th>
<th>Reading</th>
<th>Assignment due</th>
</tr>
</thead>
</table>
| 1/27 (Mon), 1/29 (Wed) & 2/3 (Mon) | About this course  
                   Review of statistical concepts  
                   Descriptive statistics | Chs. 1 – 4 |                |
| 2/5 (Wed) & 2/10 (Mon) | Introduction to SPSS  
                        Normal distribution  
                        Probability  
                        Sampling distribution  
                        Print Unit normal distribution | Chs. 5 – 6 | 2/5 – HW 1  
                        2/10 – HW 2 |
| 2/12 (Wed)       | Exam 1 (Chs. 1-4)  
                   Last days to turn HWs 1 & 2 in without a penalty |          |                |
| 2/17 (Mon)       | Probability  
                   Sampling distribution | Chs. 6 – 7 | 2/17 – HW3    |
| 2/19 (Wed) & 2/24 (Mon) | Hypothesis testing | Ch. 8      | 2/19 – HW 4   |
| 2/26 (Wed)       | Review of t-tests  
                   t-test with one sample  
                   Independent samples  
                   Repeated measures  
                   Print out t-table | Chs. 9-11  | 2/26 - HW 5   |
| 3/3 (Mon)        | Exam 2 (Chs. 5 – 8)  
                   Last due date to turn HWs 3-5 in without a penalty |          |                |
| 3/5 (Wed), 3/10 (Mon), 3/12 (Wed), & 3/17 (Mon) | Review of t-tests  
                                                        t-test with one sample  
                                                        Independent samples  
                                                        Repeated measures | Chs. 9-11  | 3/12 – HW 6  
                                                        3/17 – HW 7 |
<table>
<thead>
<tr>
<th>Date</th>
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<th>Reading</th>
<th>Assignment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/19 (Wed)</td>
<td>Correlation and Regression</td>
<td></td>
<td>3/19 - HW 8</td>
</tr>
<tr>
<td>3/24 (Mon) &amp; 3/26 (Wed)</td>
<td>No class – Spring recess</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/31 (Mon)</td>
<td>No class – Cesar Chavez Day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/2 (Wed) &amp; 4/7 (Mon)</td>
<td>Correlation and Regression Multiple regression</td>
<td>Chs. 15 &amp; 16</td>
<td></td>
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<tr>
<td></td>
<td>Print out correlation table</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/9 (Wed)</td>
<td>Exam 3 (Chs. 9 – 11)</td>
<td></td>
<td>Bonus question</td>
</tr>
<tr>
<td></td>
<td>Last due date for the late HWs 6-8 without a penalty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/14 (Mon) &amp; 4/16 (Wed)</td>
<td>Chi Square ANOVA</td>
<td>Ch. 17</td>
<td>4/14 – HW 9</td>
</tr>
<tr>
<td></td>
<td>Print out chi-square table</td>
<td>Ch. 12</td>
<td></td>
</tr>
<tr>
<td>4/21 (Mon), 4/23 (Wed) &amp; 4/28 (Mon)</td>
<td>One-way ANOVA Two-way ANOVA</td>
<td>Chs. 12 &amp; 14</td>
<td>4/23 – HW 10 Bonus question</td>
</tr>
<tr>
<td>4/30 (Wed)</td>
<td>Exam 4 (Chs. 16, 17, &amp; 18)</td>
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<tr>
<td></td>
<td>Last due date for the late HWs 9 &amp; 10 without a penalty</td>
<td></td>
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</tr>
<tr>
<td>5/5 (Mon), 5/7 (Wed), &amp; 5/12 (Mon)</td>
<td>Two-way ANOVA</td>
<td>Ch. 14</td>
<td>5/7 -- HW 11</td>
</tr>
<tr>
<td>5/20 (Tue) 12:15 – 2:30</td>
<td>Final Exam Return all the exams back to class</td>
<td></td>
<td>5/20 – HW12 Bonus question</td>
</tr>
<tr>
<td>5/22 (Thur)</td>
<td>Last due dates for the late HWs 11 &amp; 12 and Bonus Question</td>
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</tbody>
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Student Information Sheet
Intermediate Statistics – Spring 2014

1. Your Name (Please print)

2. Best way to contact you if necessary (e.g., e-mail address)

3. Major(s)/ and Minor(s)

4. Year in school (Freshman, Sophomore, Junior, Senior, Graduate student)

5. Why are you taking this class?

6. Have you ever used SPSS?

7. Would you describe yourself as math phobic? (Explain)

8. Where and when did you take an elementary statistics course? How did you do in the course?

9. Are you planning to pursue a graduate degree? A master degree or a doctoral degree? In what area (be specific if possible)?

10. Any information you would like me to know about you?