This is a representative syllabus. The syllabus for the course when you enroll may be different. Use the syllabus provided by your instructor for the most up-to-date information. Please refer to your instructor for more information for the specific requirements of a given semester.

Statistics for Psychology, Semester 2  
Psychology 3321, Spring 2016, 3 credits  
MWF 10:20 - 11:15, Lazenby Hall Room 21

Review Ch 1-8 and then Ch. 10 - 13 plus related topics.

Grades: A, 92% and above; A-, 90-91; B+, 85-89; B, 80-84; B-, 75-79; C+, 68-74; C, 61-67; C-, 55-60  
80% for exams, two midterms plus final: 20%, 30%, 30%  
20% for computer projects and homework

Exam Dates (Dates for Exams 1 and 2 are tentative)  
Exam 1 Mon, Feb 13; Exam 2 Wed Mar 22, Final Thur Apr 27, 10:00 - 11:45AM  
Midterm exams: 45 items, multiple choice, short answer. Exam 2 covers all prior material  
Final exam: 60 items, multiple choice, short answer. Comprehensive, covers all material of the course

Other Dates  
MLK, Jan. 16 (M); Spring Break, Mar 13-17 (M-F); Last Class Day, Apr. 24 (M)

Computer - We will use the statistics package SPSS. SPSS is installed on computers in many public computers around the university. You also may install the program on your laptop. To install, follow the instructions on the course web page. Go to the "Files" section then open "SPSS_Installation."

Calculator: A calculator with basic arithmetic functions is required for exams. Calculators with statistics functions are allowed. Be sure you know how to use your calculator and that it operates on exam days

Administrative Issues  
Makeup exams: Only in exceptional circumstances with prior permission from the instructor, or with a verifiable medical excuse.  
Pass/Fail Policy: Passing grade is C or better  
Incompletes: Following SBS policy, incompletes are given only in rare situations for personal circumstances beyond the student’s control. In particular, incomplete cannot be given just because a student falls behind.  
Cancellation: Courses can be dropped through Week 8 with Instructor and SBS approval  
Late work: Exercises are due on the date assigned. *Only one exercise* can be turned in late, and no more than 7 days late. **All other late work will result in one half grade lower for the course for each day late.**

Assignment for Week 1: If you intend to install SPSS on your personal computer, do so soon.  
The Friday class of week 1 will be devoted to helping you install if you have any problems or questions. If you plan to use SPSS on a public university, then there is no need to attend Week 1 Friday class. Also if you successfully install SPSS, then there is no need to attend Week 1 Friday class.
## Tentative Schedule

<table>
<thead>
<tr>
<th>Topic</th>
<th>Textbook readings</th>
</tr>
</thead>
</table>
| 1 | Review from Psy 2220 - Stat 1 (textbook Ch. 1 - 8)  
Exploratory data analysis  
Elementary probability, including conditional and marginal probability  
Evaluating test accuracy: true positive, true negative, false positive, false negative, predictive value of a positive or negative test  
Correlation and simple regression  
Sampling distributions, especially sampling distribution of $\bar{x}$  
Confidence intervals, especially confidence interval for $\mu$  
Hypothesis test for $\mu$ - practical significance vs. statistical significance  
Hypothesis test for independent means  
Hypothesis test for dependent means  
Power and sample size calculations |
| 2 | One-way ANOVA - Chap. 12  
Comparing multiple treatments  
ANOVA hypotheses  
F-tests & degrees of freedom  
ANOVA calculations  
Effect size  
Examples |
| 3 | Two-way ANOVA - Chap. 13  
Interaction  
F-tests, degrees of freedom  
Effect size  
Examples |
| 4 | Inference in correlation and regression - Chap. 10  
Difference between statistics and parameters  
Parameters: $\rho$, $\beta_0$, $\beta_1$ versus statistics $r$, $b_0$, $b_1$  
Hypothesis tests for $\rho$, $\beta_0$, $\beta_1$  
Statistical versus practical significance |
| 5 | Multiple regression - Chap. 11  
Multiple regression graphs  
Multiple regression model  
Interpretation  
Calculation & interpretation |
| 6 | Nonlinear regression  
Psychological problems where nonlinear regression arises  
Graphs  
Survey of some nonlinear models  
Computing and interpretation |
Three Important Administrative Issues

(1) Academic Misconduct: It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct http://studentlife.osu.edu/pdfs/csc_12-31-07.pdf.

(2) Sexual misconduct/relationship violence: "Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at http://titleix.osu.edu or by contacting the Ohio State Title IX Coordinator, Kellie Brennan, at titleix@osu.edu.

(3) The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. You are also welcome to register with Student Life Disability Services to establish reasonable accommodations. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.