Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.
COURSE SYLLABUS

PSYC 515
RESEARCH METHODS & STATISTICS IN PSYCHOLOGY II

COURSE DESCRIPTION
Advanced research methodology and statistical techniques for psychological research. Focuses on methods for use with experimental designs, including factorial, repeated measures, and mixed design ANOVA models. Lab component focuses on use of computer software packages for analysis of data.

RATIONALE
The purpose of this course is to acquaint the undergraduate psychology major with basic descriptive and inferential statistical analysis. The course will draw heavily upon decision-making regarding the selection of appropriate analytic techniques and interpretation of statistical results. Because today’s work environment demands computer literacy, this course requires familiarization with computerized data analysis and file transfer.

I. PREREQUISITE
For information regarding prerequisites for this course, please refer to the Academic Course Catalog.

II. REQUIRED RESOURCE PURCHASE
Click on the following link to view the required resource(s) for the term in which you are registered: http://bookstore.mbsdirect.net/liberty.htm

III. ADDITIONAL MATERIALS FOR LEARNING
A. Computer with basic audio/video output equipment
B. Internet access (broadband recommended)
C. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES
Upon successful completion of this course, the student will be able to:
A. Select the appropriate statistical test to analyze and interpret psychological data produced by different research designs.
B. Use SPSS statistical software to analyze psychological data.
C. Determine whether statistical results support hypotheses of psychological studies.
D. Communicate the results of data analysis in appropriate APA format in written and technological forms.

V. Course Requirements and Assignments

A. Textbook readings and lecture presentations

B. Course Requirements Checklist

After reading the Course Syllabus and Student Expectations, the student will complete the related checklist found in Module/Week 1.

C. Discussion Board Forums (2)

Discussion boards are collaborative learning experiences. Therefore, the student will create a thread in response to the provided prompt based on the Lab assignment for each forum. Each thread must be at least 400 words and demonstrate course-related knowledge. In addition to the thread, the student will reply to at least 2 other classmates’ threads. Each reply must be at least 200 words. Assertions must be supported by citations as needed.

D. SPSS Homework (8)

The student will complete 8 SPSS homework exercises. These homework exercises rely on the module/week’s assigned reading from the Green & Salkind textbook.

E. Lab Project (To be completed in multiple phases)

The student will administer a survey to at least 12 people and will use the resulting data to complete a lab assignment throughout the course. The lab includes data collection via a survey, choosing the correct type of data analysis using SPSS, and reporting and interpreting results in a results section to be written in current APA format. Instructions from the Institutional Review Board regarding how to administer this survey must be followed.

F. SPSS Cumulative Assignment

The student will complete a cumulative assessment that covers material learned during the first 4 modules/weeks of the course. There will be 1 problem for each of the statistical tests covered, and the student will complete the analyses in SPSS.

G. Exams (4)

The student will complete 4 exams. Each exam will be open-book/open-notes, covering 2 modules/weeks of material. Each exam will have a time limit of 1 hour and 30 minutes and will contain 40 multiple-choice questions.
VI. COURSE GRADING AND POLICIES

A. Points

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Required Checklist</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Board Forums</td>
<td></td>
</tr>
<tr>
<td>Lab Project: Phase 1</td>
<td>40</td>
</tr>
<tr>
<td>Lab Project: Phase 5</td>
<td>40</td>
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<tr>
<td>SPSS Homework (8 at 40 pts ea)</td>
<td>320</td>
</tr>
<tr>
<td>Lab Project: Phase 2</td>
<td>40</td>
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<tr>
<td>Phase 3</td>
<td>40</td>
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<tr>
<td>Phase 4</td>
<td>40</td>
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<tr>
<td>SPSS Cumulative Assessment</td>
<td>80</td>
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<tr>
<td>Exam 1 (Modules 1–2)</td>
<td>100</td>
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<tr>
<td>Exam 2 (Modules 3–4)</td>
<td>100</td>
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<tr>
<td>Exam 3 (Modules 5–6)</td>
<td>100</td>
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<tr>
<td>Exam 4 (Modules 7–8)</td>
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<td><strong>Total</strong></td>
<td>1010</td>
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B. Scale

- A = 940–1010
- A- = 920–939
- B+ = 900–919
- B = 860–899
- B- = 840–859
- C+ = 820–839
- C = 780–819
- C- = 760–779
- D+ = 740–759
- D = 700–739
- D- = 680–699
- F = 0–679

C. Disability Assistance

Students with a documented disability may contact Liberty University Online’s Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport
# Course Schedule

**PSYC 515**


<table>
<thead>
<tr>
<th>Module/Week</th>
<th>Reading &amp; Study</th>
<th>Assignments</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Green &amp; Salkind: lessons 22–23, Nolan &amp; Heinzen: ch. 9, 6 presentations</td>
<td>Course Requirements Checklist, Class Introductions, SPSS Homework 1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Green &amp; Salkind: lesson 24, Nolan &amp; Heinzen: ch. 10, 2 presentations</td>
<td>SPSS Homework 2, Exam 1</td>
<td>40</td>
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<tr>
<td>3</td>
<td>Green &amp; Salkind: lesson 25, Nolan &amp; Heinzen: ch. 11, 2 presentations, 1 document</td>
<td>DB Forum 1, SPSS Homework 3</td>
<td>40</td>
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<tr>
<td>4</td>
<td>Green &amp; Salkind: lesson 26 (all except sections 26.7, 26.10), Nolan &amp; Heinzen: ch. 12, 2 presentations</td>
<td>SPSS Homework 4, Lab Project: Phase 2, Exam 2</td>
<td>40</td>
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<tr>
<td>5</td>
<td>Green &amp; Salkind: lesson 31, Nolan &amp; Heinzen: ch. 13, 2 presentations</td>
<td>SPSS Homework 5, SPSS Cumulative Assessment</td>
<td>40, 80</td>
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<tr>
<td>6</td>
<td>Green &amp; Salkind: lesson 33, Nolan &amp; Heinzen: ch. 14, 2 presentations</td>
<td>SPSS Homework 6, Lab Project: Phase 3, Exam 3</td>
<td>40</td>
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<td>7</td>
<td>Green &amp; Salkind: lessons 40–41 (all except section 40.8), Nolan &amp; Heinzen: ch. 15 (through and including “Chi Square Test of Independence”), 3 presentations</td>
<td>SPSS Homework 7, Lab Project: Phase 4</td>
<td>40</td>
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<tr>
<td>8</td>
<td>Green &amp; Salkind: lesson 42, Nolan &amp; Heinzen: ch. 15 (remaining sections), 3 presentations</td>
<td>DB Forum 2, SPSS Homework 8, Exam 4</td>
<td>40, 100</td>
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**Total** 1010

DB = Discussion Board

**NOTE:** Each course module/week begins on Monday morning at 12:00 a.m. (ET) and ends on Sunday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.