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 <u>not</u> be used to purchase course materials.

COURSE SYLLABUS

PSYC 354
STATISTICS FOR THE SOCIAL SCIENCES

COURSE DESCRIPTION

Introduction to the descriptive statistics and probability, probability distributions, estimation, tests of hypotheses, and visual displays of data with applications in psychology and the other social sciences.

RATIONALE

Due to the often highly publicized nature of social science research, it is imperative for the student in the social sciences to have a basic understanding of statistics that aids in the description and interpretation of data at a basic level. This course is designed to give the student a working knowledge of the topics listed above with an emphasis on the application of statistical knowledge rather than the theory. This course will also further equip the student to succeed in upper-level statistics courses within his or her field of study.

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.   Blackboard recommended browsers

D.   Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES

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

A.   Describe the basic concepts of probability and statistics.

B.   Analyze psychological data, both by hand and with SPSS.

C.   Use critical thinking to solve everyday problems related to behavior and mental processes.

D.   Apply statistics within a biblical worldview.

E. Communicate the results of data analysis in appropriate APA format.

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 is required to create a thread in response to the provided prompt for each forum. Each thread must be at least 300 words and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to 2 other classmates' threads. Each reply must be at least 150 words.

D. Mindtap Homework (8)

Assignments depend on information gained from the Reading & Study material in the assigned module/week.

E. SPSS Homework (5)

Assignments are SPSS-based and depend on information gained from the SPSS Tutorial Presentation(s) in the assigned module/week.

F. Hypothesis Testing Homework (1)

Assignment is based on information gained from the Reading & Study material in the assigned module/week.

G. Exams (4)

Each exam will cover the Reading & Study material for 2 modules/weeks. Each exam will be open-book/open-notes, contain 40 multiple-choice questions, and have a time limit of 1 hour and 30 minutes.

VI. **COURSE GRADING AND POLICIES**

A. Points

Course Requirements Checklist	10
Discussion Board Forums (2 at 40 pts ea)	80
Mindtap Homework (6 at 40 pts ea; 1 at 25; 1 at 15)	280
SPSS Homework (5 at 40 points ea)	200
Hypothesis Testing Homework	40
Exam 1 (Modules 1–2)	100
Exam 2 (Modules 3–4)	100
Exam 3 (Modules 5–6)	100
Exam 4 (Modules 7–8)	100
Total	1010

B.   Scale

A = 900–1010   B = 800–899   C = 700–799   D = 600–699   F = 0–599

C.   Disability Assistance

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

If you have a complaint related to disability discrimination or an accommodation that was not provided, you may contact ODAS or the Office of Equity and Compliance by phone at (434) 592-4999 or by email at equityandcompliance@liberty.edu. Click to see a full copy of Liberty's Discrimination, Harassment, and Sexual Misconduct Policy or the Student Disability Grievance Policy and Procedures.

COURSE SCHEDULE

PSYC 354

Textbook: Gravetter, Wallnau, & Forzano, *Essentials of Statistics for the Behavioral Sciences* (2018).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Gravetter et al.: ch. 1-2 3 presentations	Course Requirements Checklist Class Introductions SPSS Homework 1 Mindtap: Chapter 1 Quiz	10 0 40 40
2	Gravetter et al.: ch. 3 1 presentation	Mindtap: EOC Problems SPSS Homework 2 Exam 1	40 40 100
3	Gravetter et al.: ch. 4 1 presentation 2 websites	DB Forum 1 Mindtap: EOC Problems SPSS Homework 3	40 40 40
4	Gravetter et al.: ch. 5 2 presentations	Mindtap: Mastery Training SPSS Homework 4 Exam 2	40 40 100
5	Gravetter et al.: ch. 6 1 presentation	Mindtap: Reading Quiz Mindtap: Mastery Training	15 25
6	Gravetter et al.: ch. 7	Mindtap: EOC Problems Exam 3	40 100
7	Gravetter et al.: ch. 8 2 presentations	DB Forum 2 Mindtap: Chapter 8 Quiz Hypothesis Testing Homework	40 40 40
8	Gravetter et al.: ch. 9 3 presentations	SPSS Homework 5 Exam 4	40 100
		TOTAL	**1010**

DB = Discussion Board

NOTE: Each course module/week (except Module/Week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.