

PSYC QL B: Calculate the statistics (both manually and via computer) necessary to solve problems, including descriptive statistics, statistical significance tests, effect sizes, and confidence intervals. [Aligns with GEP QL II]

PSYC QL C: Communicate the meaning of statistical analyses in everyday language and professional formats (e.g., graphs, tables, and words). [Aligns with GEC QL III]

Course Goals (simplified)

By the time you finish this course, you will:

- Gain an *understanding* of the statistical procedures used in behavioral science research.
- *Know* the difference between parametric and nonparametric statistical usage.
- *Understand* the underlying probabilities and distributions of various statistics.
- *Apply* basic statistical tests to investigate a psychological research question.
- *Apply* SPSS computer knowledge to analyze the data.
- *Acquire* an objective and reflective attitude toward behavioral phenomena.

Course Structure and Policies

Unrestricted Joint Effort - For any assignment presented in this course, *excluding exams and daily questions*, you may work with anyone and use any outside sources. However, the final product must reflect your own work and ideas. **Any exceptions must be duly noted through proper documentation techniques.** This policy means that if you work with someone, you must state who that individual was. I strongly encourage the use of fellow students to assist in your learning prior to your submittal for grade.

Attendance – This course will be an in-person course and in-person for lab. University policy dictates all students will attend class. Failure to attend class will result in missed CAP and missed information vital to all grading aspects of the course. Exams may be made up **within a week** of returning to class, as coordinated with the instructor. Homework is **due when noted** in the syllabus unless prior arrangements have been made with the instructor. Please do not be late to class.

Late turn-in policy - The policy for this unlikely event will be a 10% reduction in your score for each day the paper is late up to one week. After one week, the assignment will result in a “0.” Homework is due at the start of class and is considered late after that time, unless coordinated with your instructor. Any exceptional circumstances that may result in an unforeseen late submission (e.g., hospitalization, emergency) will be coordinated (in advance when possible) with your instructor.

Cell Phones and Electronic Recording Devices - All cell phones are to be turned off. Should a phone ring in class, I will be more than happy to answer that phone and talk to the caller. Anticipated emergency phone calls can be pre-arranged with the instructor, but the call must be answered outside of the classroom. Electronic recording devices for recording lectures must be pre-approved by the instructor.

Student’s Rights and Responsibilities – Understanding your rights and responsibilities as students is an important aspect of your education here at UWSP. Your instructor expects you to understand and adhere to these rights and responsibilities in accordance with UWSP policy. Accordingly, students are encouraged to visit the Community Rights and Responsibilities document on-line.

Course Withdrawal - Students must withdraw from class in a timely manner in accordance with published deadlines. Failure to do so could result in a failing grade or the loss of reimbursable tuition fees. The published deadlines can be found on-line.

Academic Honesty – If I suspect that a violation of academic honesty has occurred, I will pursue disciplinary sanction in accordance with UWS/UWSP 14, “Student Academic Standards and Disciplinary Procedures,” of the Wisconsin Administrative Code, Rules of the Board of Regents of the University of Wisconsin System. Copies of UWS/UWSP Chapter 14 are located on-line and in paper form at The Office of Students Rights and Responsibilities, each residence hall, the Reserve Desk of the Learning Resources Center, the University Center Information Center, and the office of each academic dean.

Miscellaneous. Bring your book, calculator, paper, and pencil to every class. Be sure to clean up after yourselves.

Emergency Response Guidance:

Medical Emergency. Call 911 or use Red Emergency Phone (List Location). Offer assistance if trained and willing to do so. Guide Emergency Responders to victim.

Tornado Warning. Proceed to the lowest level interior room without window exposure at Printing office hallway. See www.uwsp.edu/rmgt/Pages/em/procedures/other/floor-plans.aspx for floor plans showing severe weather shelters on campus. Avoid wide-span rooms and buildings.

Fire Alarm. Evacuate the building in a calm manner. Meet at west end of Gym (Swimming pool side). Notify instructor or emergency command personnel of any missing individuals.

Active Shooter: Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of Emergency Responders.

See UW-Stevens Point Emergency Management Plan at www.uwsp.edu/rmgt for details on all emergency response at UW-Stevens Point.”

Title IX. *Under several federal and state laws, and according to several university guidelines, I am required to report acts of a criminal or offensive nature. This includes acts of sexual harassment and assault, bias and hate crimes, illicit drug use, and acts of violence. Any disclosure or description of these incidents – both current and in the past – may be reported to the Dean of Students office (<http://www.uwsp.edu/dos/>) or the local authorities.*

Course Evaluation

Students will have many opportunities to demonstrate the statistical skills that they develop throughout the course. The course is comprised of 1000 points. The course has 5 homework problem sets, 2 examinations, and a final. The exams will test student knowledge of the course material and will draw heavily from course discussion and homework problem sets.

Classroom Attendance & Participation (CAP) Points (100 points)

CAP points account for 10% of a student’s grade in the course. These points result from a calculation at the end of the semester based on how well and how often a student participates in the class or provides items of interest (e.g., articles, cartoons, videos) to the instructor that can assist in another student’s learning. These points may also come from pop quizzes or unlisted outside assignments. Should students fail to participate in class, they can expect to receive no better than 65 of 100 points. Active oral participation is essential to do well in this portion of the grading. You can also expect to be

downgraded in this area for more than three absences. Three absences or less will result in a 50 out of 50 points for attendance. Attendance is recorded daily and the student participation score is awarded daily based on the following scale (0-Slept in class/did not attend, 1-Failed to participate/refused to answer question when called upon or was late to class, 2-participated when called upon, 3-active, voluntary participation). If you fail to make the class, you will earn a 0 for that day. You can earn up to 2 points for that day if you read the lesson for that day and do a half-page write-up maximum, due within 48 hours via an email attachment. The participation portion of the grade will be calculated using an instructor-derived formula based on your daily score total.

Examinations (400 points total-2 @ 20 points each)

Examinations test the daily reading and classroom discussions with objective (multiple choice/fill-in-the-blank), problem solutions, and subjective (essay) components. Examinations will evaluate a student's knowledge of the subject area. The first part of the examination will be comprised of multiple-choice questions and is closed book. The second portion of the examination will be open book and cover the hand calculations for each of the work-out problems. Although the second examination is not considered comprehensive, the nature of statistics requires the application of previous knowledge for all examinations.

Homework Problem Sets (250 total points-5 @ 50 points each)

Students will complete five take-home problem sets concerning statistics/experimental procedures previously taught in class. These data sets will address experimental concerns and provide statistical solutions to be completed by hand and through the use of the SPSS package. Each problem set is worth 50 points, **due at the start of class**, or it will be considered late. You are expected to **show all work**. The failure to show all work will result in a lower grade. Partial credit is awarded for this reason, as the instructor needs to see that you understand the process of obtaining the answer, not just the answer. You can not receive full credit without showing all work. Be sure to turn in neat and legible handwriting; I will not struggle for long in trying to read your handwriting. You will lose points if I cannot read the answer.

Final Exam (250 points)

The final exam will consist of three sections, containing 25 multiple-choice questions worth 3 points each, 10 fill-in-the-blanks worth 3 points each, and approximately 5 work-out problems, worth 10-50 points each. The final examination will be comprehensive. Your work throughout the course should prepare you well for the final.

Bonus Points (15 Points maximum)

To encourage an in-depth reading and review of this syllabus and other course material, this instructor will award any student 1 point (up to a maximum of 15 points-1.5% of your grade) for any error that s/he discovers in any of the instructor's written documents. (Note: This policy does not include email.) The email should state what course and section you are in and the error (e.g., PSYC 300-Section 1: The word "eror" found on slide 2 of the normal distributions lesson should be spelled "error.>"). Only the first individual who notifies the instructor of the error will receive the point. So as not to interrupt the class, students must notify the instructor before or after class via email. E-mail is the acceptable method of notification as this technique provides this instructor with a traceable record for assigning the bonus points. Only students who email the error will get credit. Verbal notification is not enough. However, if two students should have the same error listed, I will use the date/time of the message to indicate who was first. The instructor will keep a master copy of the student's name for each error for each document. Since I strive to produce the best product possible, this approach will help me reach my goal of zero errors in my materials. Should a student also receive a verbal bonus point in class, that student must again email the instructor reminding him of that bonus point award on that day. Delayed (more than 2 days) or non-notification typically results in loss of the bonus point(s).

Course Summary

Exams	2 @ 200 pts. each	400
Homework Problem Sets	5 @ 50 pts. each	250
CAP Points		100
Final		250
Total		1000

THE MEANING OF GRADES IN PSYC 300

Since scores on homework and examinations reflect the student's ability, instructor's grading tendencies, and the difficulty of the test, a contract grade schedule for this course would be inappropriate. Therefore, this course will not use a rigid contract for converting percentages to letter grades. However, this course will use the following guidelines to assign points on all assignments and projects. Although final grade cuts may be associated with lower percentages, these guidelines do represent guaranteed grades for achieving these percentage levels. For example:

A	94-100	B+	88 – 89.99	C+	78 – 80.99	D+	67 – 70.99
A-	90-93.99	B	84 – 87.99	C	74 – 77.99	D	64 – 66.99
		B-	81 – 83.99	C-	71 – 73.99	F	Below 64

PSYC 300 Spring 2024 Schedule

JANUARY

Date	Lesson Topic	Readings	Due Items
23	Scales of Measurement	<i>Syllabus 1-16</i>	
24L	Lab 1a: Scales of Measurement	LAB 1	
25	Experimental Variables	Chapter 1	
30	Organizing and Graphing Data	Chapter 2	
31L*	Lab 2: Organizing and Graphing Data	LAB 2*	Read Chapter 2
	FEBRUARY		
1	Describing Distributions	Chapter 3	
6	The Normal Distribution	Chapter 4	
7L*	Lab 3: Describing Distributions	LAB 3*	
8	Correlation	Chapter 5	Homework #1
13	Correlation & Linear Regression	Chapters 5-6	
14L*	Lab 4: Correlation & Linear Regression	LAB 4*	Read Chapter 6
15	Linear Regression	Chapter 6	Homework #2 (Due Feb 17 - 12 pm)
20	Linear Regression and Examination 1 preview		
21L*	Exam 1- To be Taken in class during lab period. (D326 SCI)	Chapters 1-6	Exam 1
22	Exam 1 Review		
27	Sampling and Probability Distributions	Chapter 7	
28L*	Lab 5: Sampling and Probability	LAB 5	
29	Hypothesis Testing	Chapter 8	
	MARCH		
5	Hypothesis Testing/ One-Sample Case for the Mean	LAB 6	
6L*	Lab 6: Sampling and Probability/t-test	Chapters 8 & 9	
8	One-Sample Case for the Mean	Chapters 9	
12	One-Sample Case for the Mean	Chapters 9	
13L*	Lab 7a: One-Sample Case for the Mean	LAB 7a*	
14	One-Sample Case for the Other Statistics	Chapters 10	
	Have a Great Spring Break		
26	One-Sample Case for the Other Statistics	Chapter 10	
27L*	Lab 7b: One-Sample Case for the Other Statistics	LAB 7b	Homework #3
28	Two-Sample Case for the Mean	Chapter 11	

* Report directly to computer laboratory (D326 SCI Bldg)

APRIL

Date	Lesson Topic	Readings	Due Items
2	<i>Two-Sample Case for the Mean</i>	Chapter 11	
L3	Lab 8: Two-Sample Case for the Mean	LAB 8	
4	Two-Sample Case for the Other Statistics	Chapter 12	
9	Two-Sample Case for the Other Statistics/ Exam 2 Pregame	<i>Chapter 12</i>	Homework
10L*	Lab 9: Two-Sample Case for the Other Statistics	<i>Chapter 12</i>	
11	<i>Power & Sample Size</i>	Chapter 13	Homework #4
16	Review for Exam 2	Chapters 7-12	
17L*	Exam 2	Chapter 13	Exam 2
18	Exam 2 Review Power & Sample Size	Chapter 13	
23	ANOVA	Chapter 14	
24L*	Lab 10: Power and Sample Size/ANOVA	LAB 10	
25	ANOVA	Chapter 14	

30	ANOVA/Multiple Comparisons	Chapter 14	
	MAY		
1L*	Lab 11: ANOVA/ Multiple Comparisons	LAB 11b*	
2	Multiple Comparisons	Chapter 15	
7	Multiple Comparisons	Chapter 15	Homework #5
8*	Lab 12-Understanding SPSS Printouts	Handout	
9	Final End of Course Discussion Review		
10	Take Home Final Due (Friday)		Due @ 12 pm
15	Final: Wednesday, (8-10 am,)		Final

* Report directly to computer laboratory (Science Building (SCI) D326)