

# PSY 230: Introduction to Statistics (21 SPRING) On-Line

**This syllabus may be revised at any time by the instructor for clarification or in response to changing conditions. If revisions are made, students will be notified in writing on Canvas via a course Announcement. Zoom link will be available on course CANVAS page.**

## **PSY230 – INTRODUCTION TO STATISTICS**

Professor: Elizabeth Nelson, EdD

ASU Clinical Assistant Professor of Psychology

Office Hours: Wednesday, Noon - 1:00, via appointment on ZOOM

Make your appointment here: <https://calendly.com/emedwar3/office-hours> (Links to an external site.)

e-mail: emedwar3@asu.edu

Please don't hesitate to contact me via e-mail for any questions about the course material.

### **COURSE DESCRIPTION:**

Statistics is an essential component of Psychology (as well as other biological and behavioral sciences). It provides a critical foundation by which Psychologists can evaluate behavior through organizing and summarizing data, and determining what conclusions can be justified based on the results obtained. In this course, you will begin building that foundation. We will cover a large amount of information, and it is imperative that you keep up with the homework and view all lectures to do well in this course.

### **TIME COMMITMENT:**

In general, a student should expect to spend six hours a week on coursework for every course credit. For this 3-credit course, be sure you have at least 10-15 hours each week to spend on it! If you don't, or if you will have no Internet access for more than a few days, the unfortunate truth is that it will be difficult if not impossible to succeed in the course. If you have any issues with access, please let the instructor know ASAP! We may be able to help.

### **REQUIRED MATERIALS:**

You will need a calculator to successfully take this course. No specific type is recommended – a very basic calculator will do the trick. Cell phones do not work well - homework must be accurate to either two or three decimal points, and students who try to use their cell phone calculator often miss problems due to incorrect decimals.

You will need a computer and reliable access to the Internet. Tablets and cell phones are not adequate to complete the on-line work required in the course. If you have any issues with equipment, please contact the instructor asap, as there are some ASU resources we may be able to direct you to!

This course will require you to purchase one-semester access to **MindTap** from Cengage. All your course readings, homework, and some exams will only be available via the MindTap platform. **\*\*Please note that you should create your MindTap account ON THE FIRST DAY of class, and once you have created the account you can immediately access the course materials. You have 14 days to purchase the materials, but DO NOT WAIT to create your account, and don't forget that the 14-day grace period will expire and you will need to purchase the 1-semester subscription.\*\***

**We will walk you through the process of purchasing and accessing MindTap via a video on that will be posted to CANVAS the first day of class (1/11).**

Please purchase your course materials through the course Canvas page to avoid buying the wrong materials!

### **Getting Registered**

To access your course materials, log in to **Canvas** and click on the link that says **PSY 230: Introduction to Statistics 2021**. When prompted, log in with your Cengage account and follow the prompts to complete the registration process.

### **Additional Registration/Purchasing Support**

Should you need additional guidance, please visit [www.cengage.com/start-strong](http://www.cengage.com/start-strong). Financial Aid students can purchase access through the college bookstore.

***CAUTION: Please purchase through Canvas to ensure you buy the correct access code. The easiest way to do it is to buy the code through Canvas. There are many ways to do it wrong on-line and end up without a working code. Do not buy the textbook without a working code! You will have to go back and buy the code separately, which is more expensive!*** If for some reason you need to buy your code through the ASU Bookstore, the information you need is:

**Gravetter/Wallnau/Forzano - MindTap Psychology, 1 term (6 months)  
Printed Access Card, Enhanced for Gravetter/Wallnau/Forzano's Essentials  
of Statistics for the Behavioral Sciences  
10<sup>th</sup> edition**

## **LEARNING OUTCOMES:**

Through interactive homework assignments and exams, students will demonstrate an understanding of how to apply descriptive and inferential statistical techniques to behavioral data. They will be able to describe and use probability and hypothesis testing. Students will demonstrate the ability to conduct and interpret a variety of statistical tests, and determine and explain which statistical test is most appropriate given a data set.

## **COURSE FORMAT:**

This is a completely on-line version of PSY230. This is the suggested format to keep up with the course materials.

### **EVERY MONDAY**

On-line course materials are available each week on Canvas. This may include short video lectures, tutorials, or practice problems. Typically the videos assigned on Monday are more theoretical in nature and related to understanding statistical principles.

### **EVERY WEDNESDAY**

Wednesday's videos typically include practice problems, walkthroughs, and more in-depth orientation to complex concepts.

## **PARTICIPATION:**

Because this is an on-line course, participation is assessed by students turning homework in by the due dates. There is no point assignment for participation, however it is a factor in determining if a student is engaging with the course material. More than one instance of late homework, or any missed exam will trigger an Academic Status Report (ASR). An ASR is not punitive, rather it is a way to let a student and their advisor know that they are at risk of falling behind.

### **On-line Homework**

Each chapter has on-line homework assigned.

**It's in your best interest to complete the homework immediately after reviewing the lecture material.**

This course uses MindTap for your homework problems. **ALWAYS ACCESS YOUR HOMEWORK VIA THE HOMEWORK TAB IN CANVAS**, which will link you to the correct assignment in MindTap. A common mistake is to open the MindTap program directly, without going through Canvas. Students may then become confused about which assignments they are supposed to complete. You are free to explore other practice problems etc. on the MindTap platform, however the **REQUIRED ASSIGNMENTS** are all linked through Canvas, allowing

**them to be recorded in the gradebook.** The homework should be completed every week. To allow some flexibility, the homework has "Final Due Dates" spread out across the semester. Homework is considered on-time as long as it's turned in by the final due date for the chapter. No late homework accepted.

Each chapter has an accompanying "lecture guide" to help you organize your thoughts and notes.

### Grading

Homework:

**It's in your best interest to complete the homework immediately after reviewing the lecture material.** Homework accounts for just over half of your grade.

The homework is a combination of review/practice for the material in each chapter. You have three attempts at each problem (except for Ch. 11 which has only 1 attempt), and your final score reflects your best attempt on the problem. The homework provides additional reading / information when you get a problem wrong, to help you understand your mistake.

While there is some flexibility in the due dates, getting too far behind will result in not understanding the material in the next chapter. For that reason, and because the multiple attempts provided make it very easy to succeed on the homework, there is a strict time limit for the homework to be turned in.

Homework is available any time once the course has opened, and can be turned in any time UP TO THE FINAL DUE DATES.

- For Ch. 1-3 the final due date is midnight on Friday, 1/29
- For Ch. 4&5 the final due date is Friday, 2/19
- For Ch. 6&7 the final due date is Friday, 3/5
- For Ch. 8 the final due date is Friday, 3/19
- (EXTRA CREDIT - for Ch. 8 is due Friday, 3/19)
- For Ch. 9-11 the final due date is Friday, 4/9 \*note Ch. 11 has only 1 attempt!
- For Ch. 12 the final due date is Friday, 4/23
- (EXTRA CREDIT - for Ch. 14 is due Friday, 4/23)

Total Homework Points available:

10 per chapter @ 12 chapters = 120 points

**We will DROP YOUR LOWEST HOMEWORK GRADE**

**Total Homework Points Available = 110 points**

After the due date has passed, homework cannot be made up UNDER ANY CIRCUMSTANCES. Complete your homework, don't wait until the last minute!

Exams:

- There are five quizzes. We do not drop any quizzes.
- Quizzes are taken on-line and can be started at your convenience over an assigned 30-hour period.
- Quizzes are TIMED, once you begin you will have 60 minutes to complete and submit your exam.
- Quizzes are much more difficult than the homework. The homework is to learn and practice, and the quizzes are designed to test your understanding.

Quizzes are open-note, however, failure to prepare usually results in poor grades. We strongly recommend that you create an organized page or two of notes for each exam with important definitions, formulas, and examples of concepts. You will not have enough time to flip through your notes/textbook or look for on-line resources – in addition, please note that the use of on-line “cheat” websites is considered academic dishonesty and can have serious consequences. Use your notes and be prepared!

Total quiz points possible: 100

- Quiz 1 - 20 points possible - Open Monday 2/1 at noon until 2/2 at 6pm
- Quiz 2 - 20 points possible - Open Monday 2/22 at noon until 2/23 at 6pm
- Quiz 3 - 20 points possible - Open Wednesday 3/17 at noon until 3/18 at 6pm
- Quiz 4 - 20 points possible - Open Monday 4/12 at noon until 4/13 at 6pm
- Quiz 5 - 20 points possible - Open Monday 4/26 at noon until 4/27 at 6pm (during Finals Week)

POINTS BREAKDOWN:

Total Homework Points possible (after lowest dropped): 110

Total Quiz Points possible: 100

Final grade will be your total points earned divided by 210 points possible.

DAY	DATE	Chapter	Final DUE DATES / Important Notes	Notes
Monday	1/11	Ch. 1	Watch the WELCOME VIDEO and get your Cengage account set up!	
Wednesday	1/13	Ch. 1	Be sure you watch all the Ch. 1 videos this week	<b>Your Ch. 1 homework will be due 1/29 by midnight, but it's a good idea to complete it right after you finish</b>

				the chapter
M	1/18		Martin Luther King Jr. Holiday – no class	
W	1/20	Ch. 2	Watch Ch. 2 videos	<b>Your Ch. 2 homework will be due 1/29 by midnight, but it's a good idea to complete it right after you finish the chapter</b>
M	1/25	Ch. 3	Watch Ch. 3 videos	
W	1/27	Ch. 3		<b>Your Ch. 3 homework will be due 1/29 by midnight, but it's a good idea to complete it right after you finish the chapter</b>
Friday	1/29		Ch 1,2,3 HW FINAL DUE DATE by midnight	
M	2/1		QUIZ 1 Ch. 1, 2 & 3	<b>QUIZ 1</b> - open 30 hours - from NOON on 2/1 to 6 p.m. on 2/2. Once you begin, quizzes are TIMED and you have 60 minutes to complete each one. Open Note.
W	2/3	Ch. 4	Watch Ch. 4 videos	
M	2/8	Ch. 4		<b>Your Ch. 4 homework will be due 2/19 by midnight, but it's a good idea to complete it right after you finish the chapter</b>
W	2/10	Ch. 5	Watch Ch. 5 videos	
M	2/15	Ch. 5		
W	2/17	Ch. 5		<b>Your Ch. 5 homework will be due 2/19 by midnight, but it's a good idea to complete it right after you finish the chapter</b>
F	2/19		Ch 4 & 5 HW FINAL DUE DATE by midnight	
M	2/22	Ch. 6 and <b>QUIZ 2</b>	Quiz 2, Ch. 4 & 5 Also – start watching Ch. 6 videos!	<b>QUIZ 2</b> open 30 hours - from NOON on 2/22 to 6 p.m. on 2/23. Once you begin, quizzes are TIMED and you have 60 minutes to complete. Open Note.
W	2/24	Ch. 6		<b>Your Ch. 6 homework will be due 3/5 by midnight, but it's a good idea to complete it right after you finish the chapter</b>
M	3/1	Ch. 7	Watch Ch. 7 videos	

W	3/3	Ch. 7		Your Ch. 7 homework will be due 3/5 by midnight, but it's a good idea to complete it right after you finish the chapter
F	3/5		Ch 6,7 HW FINAL DUE DATE by midnight	
M	3/8	Ch. 8	Watch Ch. 8 videos	
W	3/10	Ch. 8		
M	3/15	Ch. 8		Your Ch. 8 homework will be due 3/19 by midnight, but it's a good idea to complete it right after you finish the chapter. <b>*note that the next quiz will be BEFORE the final due date for Ch. 8, but it's advisable to complete Ch. 8 homework before you take your quiz.</b>
W	3/17	QUIZ 3 Chapter 6, 7 & 8	QUIZ 3 Ch. 6,7 & 8	QUIZ 3 open 30 hours - from NOON on 3/17 to 6 p.m. on 3/18. Once you begin, quizzes are TIMED and you have 60 minutes to complete. Open Note. (No Live Lecture Today)
F	3/19		Ch 8 HW FINAL DUE DATE by midnight Ch. 8 Extra Credit due by midnight	
M	3/22	Ch. 9	Watch Ch. 9 videos	
W	3/24	Ch. 9		Your Ch. 9 homework will be due 4/9 by midnight, but it's a good idea to complete it right after you finish the chapter
M	3/29	Ch. 10	Watch Ch. 10 videos	
W	3/31	Ch. 10 & 11	Finish Ch. 10 videos & start Ch. 11	Your Ch. 10 homework will be due 4/9 by midnight, but it's a good idea to complete it right after you finish the chapter
M	4/5	Ch. 11		Your Ch. 11 homework will be due 4/9 by midnight, but it's a good idea to complete it right after you finish the chapter
W	4/7	Ch. 12	Start Ch. 12 videos – Ch. 12 is a longer chapter and will be spread out for 2 weeks.	<b>*note – Quiz 4 is coming up on 4/12 and will cover Ch. 9,10 &amp; 11 (not 12)</b>
F	4/9		Ch 9,10,11 HW FINAL DUE DATE by midnight	

M	4/12	QUIZ 4 Ch. 9, 10, 11	QUIZ 4 - Ch. 9, 10, 11	QUIZ 4 open 30 hours - from NOON on 4/12 to 6 p.m. on 4/13. Once you begin, quizzes are TIMED and you have 60 minutes to complete. Open Note.
W	4/14	Ch. 12	Continue Ch. 12 videos	
M	4/19	Ch. 12 & 14	Complete Ch. 12, begin Ch. 14	Your Ch. 12 homework will be due 4/23 by midnight, but it's a good idea to complete it right after you finish the chapter.
W	4/21	Ch. 14		There is no homework for Ch. 14, but there is an extra credit assignment due 4/23 by midnight. Quiz 5 covers Ch. 12 and 14.
F	4/23		Ch 12 HW FINAL DUE DATE by midnight Ch 14 Extra Credit FINAL DUE DATE by midnight	
M	4/26	QUIZ 5 Ch. 12 & 14	DURING FINALS WEEK: QUIZ 5 CH. 12 & 14	QUIZ 5 open 30 hours - from NOON on 4/26 to 6 p.m. on 4/27. Once you begin, quizzes are TIMED and you have 60 minutes to complete. Open Note.

### Extra Credit

There are two opportunities for extra credit. One is due in the middle of the semester, and the other at the end.

- Chapter 8 Extra Credit Problem = 4 points extra credit possible. Must be turned in by midnight on Friday 3/19. No late work accepted.
- Chapter 14 Extra Credit Problem = 6 points extra credit possible. Must be turned in by midnight on Friday, 4/23. No late work accepted.

Grading Scale:

### **Points Possible – 210**

Your final grade will consist of your highest 11 scores out of 12 hw assignments + total points scored in Quiz 1,2,3,4 & 5, + extra credit if completed.

A+ 100% to 97%  
A < 97% to 94%  
A- < 94% to 90%  
B+ < 90% to 87%  
B < 87% to 84%  
B- < 84% to 80%  
C+ < 80% to 76%



- C < 76% to 70%
- D < 70% to 60%
- E < 60% to 0%

## RESOURCES AVAILABLE

- The ASU Student Success Center can provide on-line tutoring in
- **Statistics! Make an appointment here:** <https://psychology.asu.edu/student-success-center> (Links to an external site.)

## TECHNOLOGY SUPPORT:

We will walk you through how to register with your Cengage/Mindtap code via video before the first day of class. The homework assignments will be linked to Canvas, so you can register and access your homework via the course Canvas site. If you are having trouble with the Cengage/Mindtap program, you can reach tech support at [www.cengage.com/support](http://www.cengage.com/support) (Links to an external site.). Please let your TA or Instructor know if you are having technical issues with Canvas.

## MISSING POINTS:

It is your responsibility to monitor your points and report any missing points to a TA within a week of their submission. It's important to stay on top of this, because if you don't report it within that time period, you will forfeit the points.

NOTE: Your final grades will be calculated & posted during Finals Week. You have until MAY 4<sup>th</sup> to notify us if you have any questions about your grade.

## LECTURES AND NOTES:

Please note that your professor/TAs cannot supply lecture notes. If you find your notes are incomplete, you will need to review the lectures, look in the on-line textbook, and/or get notes from another student. Lecture guides are provided on the course website.

**MISSED EXAMS:** The exams (which should take between 30 and 60 minutes to complete) are open for a 30 hour period, and once you open your exam they have a 60 minute time limit. Be sure you plan to complete your exam during the scheduled time, as no make-ups or extensions will be given (see the course schedule!).

**ABSENCES:** We do not take attendance, therefore absences are not counted. **Your Ch. 10 homework will be due 4/9 by midnight, but it's a good idea to complete it right after you finish the chapter**

The following are ASU's general guidelines for absences.

## ABSENCES RELATED TO RELIGIOUS OBSERVANCES /

**PRACTICES:** Please inform the instructor if you need to be absent due to a

religious observance or practice. Absences related to religious observances/practices are excused absences in accordance with ACD 304–04 “Accommodations for Religious Practices.” Please click on this link to review the criteria in the ASU Academic Affairs

Manual. <http://www.asu.edu/aad/manuals/acd/acd304-04.html> (Links to an external site.)

### **ABSENCES RELATED TO UNIVERSITY SANCTIONED EVENT**

**ACTIVITIES:** Please inform the instructor if you need to be absent due to a university sanctioned event or activity. Information related to excused absences related to university sanctioned events activities can be found here: <http://www.asu.edu/aad/manuals/acd/acd304-02.html> (Links to an external site.)

### **ACADEMIC INTEGRITY**

Academic honesty is expected of all students in all examinations, papers, and laboratory work, academic transactions and records.

**\*\*Working with another student on an exam, even if the exam is open book/notes IS considered cheating by ASU. Using an on-line source that provides answers to test questions for a fee or for free is cheating. Work that is obviously copied is required to be submitted to the Dean’s office, and sanctions will be implemented.\*\***

The possible sanctions include, but are not limited to, appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification and dismissal. For more information, see <http://provost.asu.edu/academicintegrity>

### **ACCOMMODATING STUDENTS WITH DISABILITIES**

Accommodations can be provided in test-taking, homework, reading materials, and in other areas for students who have registered with Student Accessibility and Inclusive Learning Services (SAILS). Please let us know as close to the beginning of the course as possible so we can provide materials as needed to the DRC. Students who feel they will need disability accommodations in this class but have not registered with the Disability Resource Center (DRC) should contact DRC immediately. The DRC Tempe office is located on the first floor of the Matthews Center Building. DRC staff can also be reached at: (480) 965-1234 (V) or (480) 965-9000 (TTY). For additional information, visit: [www.asu.edu/studentaffairs/ed/drc](http://www.asu.edu/studentaffairs/ed/drc) (Links to an external site.).

### **EXPECTED (on-line) CLASSROOM BEHAVIOR**

You are expected to take responsibility for completing your work, be respectful and kind to instructors and other students, and ask for help BEFORE you get into

serious academic trouble, instead of after! If you fail to keep up with your assignments, it is not the responsibility of the instructor to ignore the rules applied to the rest of the class to let you “make up” that work. Don’t let yourself get into that situation. Stay on top of your work, ask for help as soon as you need it, and stay on track.

## **POLICY AGAINST THREATENING BEHAVIOR**

All incidents and allegations of violent or threatening conduct by an ASU student (whether on-or off campus) must be reported to the ASU Police Department (ASU PD) and the Office of the Dean of Students. If either office determines that the behavior poses or has posed a serious threat to personal safety or to the welfare of the campus, the student will not be permitted to return to campus or reside in any ASU residence hall until an appropriate threat assessment has been completed and, if necessary, conditions for return are imposed. ASU PD, the Office of the Dean of Students, and other appropriate offices will coordinate the assessment in light of the relevant circumstances.

## **TITLE IX**

Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at <https://sexualviolenceprevention.asu.edu/faqs>.

As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, <https://eoss.asu.edu/counseling>, is available if you wish to discuss any concerns confidentially and privately.