

**Health Services  
Administration**

***University of Wyoming  
PHCY 5042  
Statistics for Health  
Service Administration  
Summer 2023  
July 3 to August 12***



College of Health Sciences  
School of Pharmacy

UNIVERSITY OF WYOMING PHCY 5042  
**Statistics for Health Services Administration**

**Summer 2023**

**July 3 through August 12**

**Instructor contact information:** Dr. Paul Carnes    Email: pcarnes@uwo.edu

**Live Sessions:** Live class sessions will be held each **Wednesday from 6-7pm MST**. We will use WyoCourses for these live sessions. You do not need to show yourself on video but Dr. Carnes may use video and may also use screen-share to display information.

**Course prerequisites, co-requisites, enrollment restrictions:** Enrollment in the Master of Science in Health Services Administration program, or by permission.

**Course Description:** This course will introduce students to biostatistics focusing on common concepts, terminology, and the appropriate selection of statistical tests and interpretation of the output of statistical tests.

Statistics is the tool to answer scientific questions given data. Your goal is to read scientific claims and understand the limits of their research, interpret what the results mean, and demonstrate the ability to analyze their data. The topics include descriptive statistics, one sample mean and proportion, two sample means and proportions, regression, and chi-squared tests. This course is focused on helping Master's students understand the real-world application of statistical methods in healthcare.

**Student Learning Outcomes:** This course will focus on applying the statistics learned to healthcare settings.

**Required text:** "Clinical Biostatistics and Epidemiology Made Ridiculously Simple" by Weaver A, Golding S. ISBN-13: 978-1935660026. This text can be purchased from Amazon for less than \$25.

**General requirements and expectations for the course:** Students should obtain the required textbook and complete assigned readings by the due date. It is acceptable for students to communicate with each other about assignments. Students are encouraged to participate in live class sessions; however, attendance will not count towards your grade.

You are encouraged to begin reading the assigned book chapters or articles prior to the live class session on Wednesday. During the Wednesday session, Dr. Carnes will highlight key items related to the assigned readings for that week and will answer questions. A quiz on the assigned material for that week will open on Thursday and must be completed before Saturday at midnight MST.

**Quizzes/Exams:** There will be six quizzes (one per week). The quizzes will open on Thursday and close on Saturday at midnight MST. You can complete the quiz any time within that window from Thursday through Saturday. Quizzes will be "open book" and you will be allowed up to 60 minutes to complete each quiz.

### Assessment & Grading:

Quiz 1	17%	A: 90-100
Quiz 2	17%	B: 80-89
Quiz 3	17%	C: 70-79
Quiz 4	17%	D: 60-69
Quiz 5	17%	F: Below 60
Quiz 6	15%	

**Attendance and Absence policies.** You are encouraged to participate in all live sessions.

### Classroom Behavior Policy:

*“At all times, treat your presence in the classroom and your enrollment in this course as you would a job. Act professionally, arrive on time, pay attention, complete your work in a timely and professional manner, and treat all deadlines seriously. You will be respectful towards you classmates and instructor. Spirited debate and disagreement are to be expected in any classroom and all views will be heard fully, but at all times we will behave civilly and with respect towards one another. Personal attacks, offensive language, name-calling, and dismissive gestures are not warranted in a learning atmosphere. As the instructor, I have the right to dismiss you from the classroom, study sessions, electronic forums, and other areas where disruptive behavior occurs.*”

**Classroom Statement on Diversity:** The University of Wyoming values an educational environment that is diverse, equitable, and inclusive. The diversity that students and faculty bring to class, including age, country of origin, culture, disability, economic class, ethnicity, gender identity, immigration status, linguistic, political affiliation, race, religion, sexual orientation, veteran status, worldview, and other social and cultural diversity is valued, respected, and considered a resource for learning.

### Disability Support:

*The University of Wyoming is committed to providing equitable access to learning opportunities for all students. If you have a disability, including but not limited to physical, learning, sensory or psychological disabilities, and would like to request accommodations in this course due to your disability, please register with and provide documentation of your disability as soon as possible to Disability Support Services (DSS), Room 128 Knight Hall. You may also contact DSS at (307) 766-3073 or [udss@uwyo.edu](mailto:udss@uwyo.edu). It is in the student’s best interest to request accommodations within the first week of classes, understanding that accommodations are not retroactive. Visit the DSS website for more information at: [www.uwyo.edu/udss](http://www.uwyo.edu/udss)*

## **Academic Dishonesty Policies:**

*Academic dishonesty will not be tolerated in this class. Cases of academic dishonesty will be treated in accordance with UW Regulation 2-114. The penalties for academic dishonesty can include, at my discretion, an "F" on an exam, an "F" on the class component exercise, and/or an "F" in the entire course. Academic dishonesty means anything that represents someone else's ideas as your own without attribution. It is intellectual theft – stealing - and includes (but is not limited to) unapproved assistance on examinations, plagiarism (use of any amount of another person's writings, blog posts, publications, and other materials without attributing that material to that person with citations), or fabrication of referenced information. Facilitation of another person's academic dishonesty is also considered academic dishonesty and will be treated identically.*

## **Duty to Report:**

*While I want you to feel comfortable coming to me with issues you may be struggling with or concerns you may be having, please be aware that I have some reporting requirements that are part of my job requirements at UW.*

*For example, if you inform me of an issue of sexual harassment, sexual assault, or discrimination I will keep the information as private as I can, but I am required to bring it to the attention of the institution's Title IX Coordinator. If you would like to talk to those offices directly, you can contact Equal Opportunity Report and Response (Bureau of Mines Room 319, 766-5200, [report-it@uwyo.edu](mailto:report-it@uwyo.edu), [www.uwyo.edu/reportit](http://www.uwyo.edu/reportit)). Additionally, you can also report incidents or complaints to the UW Police Department. You can also get support at the STOP Violence program ([stopviolence@uwyo.edu](mailto:stopviolence@uwyo.edu), [www.uwyo.edu/stop](http://www.uwyo.edu/stop), 766-3296) (or SAFE Project ([www.safeproject.org](http://www.safeproject.org), [campus@safeproject.org](mailto:campus@safeproject.org), 766-3434, 24-Hour hotline: 745-3556).*

*Another common example is if you are struggling with an issue that may be traumatic or unusual stress. I will likely inform the Dean of Students Office or Counseling Center. If you would like to reach out directly to them for assistance, you can contact them using the info below or going to [www.uwyo.edu/dos/uwyocares](http://www.uwyo.edu/dos/uwyocares).*

*Finally, know that if, for some reason, our interaction involves a disruptive behavior or potential violation of policy, I inform the Dean of Students, even when you and I may have reached an informal resolution to the incident. The purpose of this is to keep the Dean apprised of any behaviors and what was done to resolve them.*

## **Substantive changes to syllabus:**

*All deadlines, requirements, and course structure are subject to change if deemed necessary by the instructor. Students will be notified verbally in class, on our WyoCourses page announcement, and via email of these changes.*

## **Student Resources:**

*DISABILITY SUPPORT SERVICES: [udss@uwyo.edu](mailto:udss@uwyo.edu), 766-3073, 128 Knight Hall, [www.uwyo.edu/udss](http://www.uwyo.edu/udss)  
COUNSELING CENTER: [uccstaff@uwyo.edu](mailto:uccstaff@uwyo.edu), 766-2187, 766-8989, 341 Knight Hall, [www.uwyo.edu/ucc](http://www.uwyo.edu/ucc)  
ACADEMIC AFFAIRS: 766-4286, 312 Old Main, [www.uwyo.edu/acadaffairs](http://www.uwyo.edu/acadaffairs)  
DEAN OF STUDENTS OFFICE: [dos@uwyo.edu](mailto:dos@uwyo.edu), 766-3296, 128 Knight Hall, [www.uwyo.edu/dos](http://www.uwyo.edu/dos)  
UW POLICE DEPARTMENT: [uwpd@uwyo.edu](mailto:uwpd@uwyo.edu), 766-5179, 1426 E Flint St, [www.uwyo.edu/uwpd](http://www.uwyo.edu/uwpd)  
STUDENT CODE OF CONDUCT WEBSITE: [www.uwyo.edu/dos/conduct](http://www.uwyo.edu/dos/conduct)*

## Course Calendar

<b>Week</b>	<b>Readings</b>	<b>Live Class</b>	<b>Quiz Due</b>
1	Book: Chapters 1-4	July 5	July 8
2	Book: Chapters 5-7	July 12	July 15
3	Book: Chapters 8-12	July 19	July 22
4	Book: Chapters 13-15 Article TBD	July 26	July 29
5	Book: Chapter 16 Articles TBD	August 2	August 5
6	Book: Chapters 17-18 Articles TBD	August 9	August 12

You are strongly encouraged to begin the assigned readings PRIOR to the live class session.