



[Epidemiology and Biostatistics 1 & 2]

Meeting Days, Times, Location: [###]

Semester: [###], Year: [####]

Units: [#], Section(s): [#]

Instructor information

<b>Name</b>	John Kriak, PharmD
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<b>Office location</b>	Pennsylvania – USA
<b>Office hours</b>	<b>TBD</b>

TA Information [If applicable] - **N/A**

<b>TA name</b>	
<b>TA Contact Info</b>	[Include information for TA's preferred method of contact here]
<b>Office location</b>	[Will the TA be located somewhere other than your office]
<b>Office hours</b>	

## Course Description

- This course introduces the fundamental definitions, concepts, and applications related to analytical and clinical epidemiology, biostatistics as well as evidence-based medicine principles that are essential for clinical practice.

## Learning Objectives

Upon completion of this course the learner will be able to:

- Describe vital applications of descriptive and analytic epidemiology.
- Define the roles biostatistics serves in both public health and biomedical research
- Perform and utilize essential epidemiological and biostatistical calculations
- Convert study research objectives into clear, testable statistical hypotheses
- Outline the most appropriate statistical methods to be applied in a given research setting.
- Define the benefits and limitations of the most commonly used statistical methods.
- Define how clinical information is used to define "abnormal" vs. "normal."
- Distinguish between validity and reliability as well as statistically significant and clinically significant.
- Describe and apply the principles and outputs for observational and interventional studies.
- Outline the fundamental design and methodological steps of the randomized controlled clinical trial.

## Learning Resources

- What materials are required for your course (e.g., textbooks, software, lab equipment, etc.)?
  - TBD

## Assessments

- TBD

The final course grade will be calculated using the following categories:

Assessment	Percentage of Final Grade

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- [Brief description of assessment 1]: What are students expected to do in this assignment (e.g., problem sets, short answer responses, multiple-choice questions, etc.)? How does this assignment connect to the learning objectives of the course? How will students submit this assignment (e.g., online or during class)? Will students complete the assignment individually or in-groups?
- [Brief description of assessment 2]
- [Brief description of assessment 3]

Students will be assigned the following final letter grades, based on calculations coming from the course assessment section.

Grade	Percentage Interval
A	90-100% points
B	80-89% points
C	70-79% points
D	65-69% points
R (F)	< 65% points

## Grading Policies

- **TBD**

- **Late-work policy:** Will you accept late work? If so, up until when? Will you deduct points for late work, and if so, how many? Will you require any sort of documentation (e.g., doctor's note)?
- **Make-up work policy:** Will you allow students to make-up assignments and/or assessments? If so, how should they request to make-up the work (e.g., in writing, at least 24-hours prior to the due date, etc.)? Will you require any sort of documentation (e.g., doctor's note)?
- **Re-grade policy:** If students ask you to re-grade their work, will you? If so, how should they request a re-grade (e.g., in writing, in office hours, within one week of receiving the graded assignment)?
- **Attendance and/or participation policy:** Is attendance and/or participation a graded component of your course? If so, how will you measure student performance (e.g., a sign-in sheet, a tally sheet, etc.)?

## Course Policies

- **TBD**

- **Attendance & Participation** (if applicable): Is attendance and/or participation a graded component of your course? If so, how will you measure student performance
- **Academic Integrity & Collaboration:** How is the policy motivated by the positive dimensions of academic integrity? What is and is not permitted with respect to collaboration and/or outside assistance for each type of graded work in your course?
- **Late-work/Make-up work policy:** Will you accept late work? If so, up until when? Will you deduct points for late work, and if so, how many? Will you require any sort of documentation
- **Accommodations for students with disabilities and student wellness:** Sample Text *"If you have a disability and require accommodations, please contact \_\_\_\_\_, \_\_\_\_\_. If you have an accommodations letter from the Disability Resources office, I encourage you to discuss your accommodations and needs with me as early in the semester as possible. I will work with you to ensure that accommodations are provided as appropriate."*
- **Mobile Devices:** Are there times when having a mobile device would benefit student learning? If you have a zero tolerance policy for mobile devices, how will you enforce it?
- **Any other policies:** \_\_\_\_\_

## Course Schedule

Date	Theme/Topic	Learning Outcomes Addressed	Assignments Due

