

INDIANA STATE UNIVERSITY
APPLIED HEALTH SCIENCES

Epidemiology

Fall 2016

AHS 360 Section 002

(TR 12:30pm – 1:45pm)

Room - Arena B095

PROFESSOR:

Dr. Whitney Blondeau

Email: Whitney.Blondeau@indstate.edu

Phone: (812) 237-3929 Office: Arena Room B-56B

Office Hours: Monday & Wednesday: 9:30-10:30 am

Tuesday & Thursday: 11:00-11:50 am & 2:00-3:00pm

Friday: 2:00-2:30 pm

* You are strongly encouraged to communicate with the professor but please note that emails sent after 5:00 p.m. might not be read and replied to before 9:00 a.m. the following morning; Emails sent on the weekend may or may not be answered. In all instances, it is best to allow at least 24 hours for a response. I ask that you be mindful of your tone and use appropriate email etiquette (salutation, body of text, closing and signature (i.e., name)). Emails sent in text format (no capitalization, punctuation, etc.) will be deleted and not answered. ***If you need to discuss a serious matter or issue with the professor, an appointment is the most appropriate way to resolve the issue in a timely manner.***

Required Text

Friis R.H. (2010). *Epidemiology 101*: Essential Public Health Series. Sudbury, MA: Jones and Bartlett Publishers, Inc.

COURSE DESCRIPTION

Epidemiology is the study of the distribution and determinants of health events among the human population. Topics include: history of disease; epidemiologic study design, data collection, analysis, presentation, and application in community diagnosis, risk assessment, and program evaluation. This course covers applications of epidemiologic methods and procedures to the study of the distribution and determinants of health and diseases, morbidity, injuries, disability, and mortality in populations. Epidemiologic methods for the control of conditions such as infectious and chronic diseases, mental disorders, community and environmental health hazards, and unintentional injuries are discussed. Other topics include quantitative aspects of epidemiology, for example, data sources, measures of morbidity and mortality, evaluation of association and causality, and study design.

COURSE OBJECTIVES

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

- Define common terms used in epidemiology and population health research.
- Calculate, interpret, and compare measures of disease frequency in populations.
- Describe key characteristics of cross-sectional, case-control, cohort, and experimental study designs.
- Interpret measures of association between exposures and health outcomes.
- Describe factors that influence the incidence and distribution of a disease in a human population.
- Describe a public health problem in terms of magnitude, person, time, and place.
- Describe the process for applying epidemiologic principles in global and community health.
- Identify key sources of epidemiologic data.
- Discuss the applications of epidemiology to policy development.

COURSE FRAMEWORK

The framework for this course, including assignments and evaluations, is designed to address one or more of the health education specialist Seven Areas of Responsibility competencies and sub-competencies as defined by the National Commission for Health Education Credentialing, Inc. (NCHEC). See www.nche.org for more information regarding the competencies.

Expectations of Students

Attendance:

1. Each student is expected to attend each scheduled class session and participate in class activities.
2. Attendance will be taken each class period. **You are expected to arrive on time and stay until class is dismissed.** You will be given a 5-minute grace period – if you arrive late after 5 minutes of class starting, your lateness will be noted on the attendance sheet. A pattern of lateness will count against your final grade.
3. An attendance sheet will be placed at the front of the room, please sign it when you arrive. Students will be allowed two “freebies” to cover days in which you might be sick, have family emergencies, or encounter unexpected situations. (Please note: the freebie policy does not exempt students from scheduled exams, presentations, or other required assignments.) **Starting with the third absence, 3% will be deducted from the student’s final grade.** Students who miss more than five classes are subject to receive an F for the course. As such, be sure to only miss class during times when you are truly ill or have an actual emergency that prevents you from attending class.
4. If you miss a class, it is your responsibility to get the notes and any materials that were handed out. Ask a classmate for the notes or a copy of distributed materials or check Blackboard for any related postings.

ASSIGNMENT DUE DATE POLICY

Assignments are due on the date, time and period specified. You must turn in an electronic copy of your work in the Blackboard course site unless otherwise specified; Unless specifically stated, e-mail attachments are not an acceptable form of submitting assignments. For each day (24-hour period) that an assignment is submitted past the required due date, one letter grade will be deducted from the final assignment grade.

PREREQUISITES

AHS 340 or consent of instructor.

COURSE POLICIES AT INDIANA STATE UNIVERSITY (ISU)

Students with Disabilities

ISU seeks to provide effective services and accommodation for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, you are required to register with Disabled Student Services within the Center for Student Success - <https://www.indstate.edu/services/student-success/cfss/student-support-services/eligibility>. You can contact the Center at 237-2301, 2nd floor Gillum Hall.

Emergency Preparedness

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. Information about changes in this course will be posted to Blackboard Vista web page, communicated by email OR you can contact me by email or my office phone (above).

Course Navigation/Learner Support

Blackboard navigation tutorial is available in the "Tools" tab on the Blackboard course homepage. **Students are responsible for understanding navigation in order to submit assignments; lack of Blackboard knowledge is not considered a reason to miss assignment deadlines.** See the "*Blackboard Help*" in the tools tab for help.

Academic Integrity:

Academic integrity is a core value of ISU's community of learners. Every member of the academic community (students, faculty, and staff) is expected to maintain high standards of integrity in all facets of work and study. The Policy on Academic Integrity describes appropriate academic conduct in research, writing, assessment, and ethics. Please review the ISU Student Code of Conduct located on the ISU Code of Student Conduct webpage: <https://www.indstate.edu/code-of-student-conduct>

The ISU Student Code of Conduct deals with academic integrity issues including: cheating on exams; plagiarism; falsification, forgery, and obstruction; multiple submissions; facilitating academic dishonesty; violating professional standards in research and creative endeavors;

misusing academic resources; misusing intellectual property; and violating ethical and professional standards. ISU requires that all students read and support the Policy on Academic Integrity.

The following behaviors are some examples of academic dishonesty (from Kittleson, 2006):

1. Taking an exam for another student.
2. Forging or altering an official document.
3. Paying someone to write a paper to submit under one's own name.
4. Copying (with or without another person's knowledge and claiming it as own work).
5. Including items on a list of references that were not used.
6. Doing assignments for someone else.
7. Obtaining a copy of a test before it is given.
8. Working with other students when not expressly told to do so.
9. "Recycling": Copying and pasting (or retyping) material from a paper written for another course and submitting it for a grade for the present course without previous consent from instructor.
10. Using in-text citations for sources not used in the paper.
11. Copying and pasting text from a source without quotations and citation of source.

While all areas of academic integrity are important, plagiarism (examples include numbers 10 & 11 above) is a particularly common problem at ISU. Thus, the Department of Applied Health Sciences (AHS) now requires that all students in AHS courses complete the online plagiarism training (available through Blackboard on the course website) every semester in which they are enrolled in any AHS course(s).

Academic dishonesty is not tolerated at ISU. The penalties for academic dishonesty (plagiarism) are as follows:

- First offense: you will receive a zero on the assignment and be required to meet with the instructor to discuss the offense and how to avoid academic dishonesty in the future.
- Second offense: you will receive an F in the course and be required to meet with the instructor and the Chair of the Department of Applied Health Sciences to discuss the offense as well as the consequences of a third (and final) incident.
- Third offense: you will be referred to the Office of Student Conduct and potentially face formal charges. Students found in violation of the Policy on Academic Integrity may be suspended or expelled and can have a permanent notation affixed to the official transcript indicating that an academic integrity violation occurred.

Please note that incidents of academic dishonesty are cumulative over the course of your academic career at ISU (not in one class or in one semester). That is to say that if the first offense occurs during your freshman year, and another offense occurs two years later, the second offense will result in the consequences detailed above regarding second offenses. Students are urged to discuss questions regarding academic integrity with instructors, advisers, or academic deans.

Plagiarism

The Department of Applied Health Sciences (AHS) requires all students in AHS courses complete the online plagiarism training (available through Blackboard on the course website) **every semester** in which they are enrolled in any AHS course(s). The plagiarism training must be completed by **9/4/2016**, with a score of 100%. Any student who does not successfully complete the training by the due date will lose points; **anyone not completing the quiz with a 100% score by the end of the semester will receive a failing grade for the course.**

Title IX: A comprehensive federal law that prohibits discrimination on the basis of sex in any federally funded education program or activity.

Indiana State University is committed to inclusive excellence. To further this goal, the university does not tolerate discrimination in its programs or activities on the basis of: race, color, national origin, gender, age, sexual orientation, gender identity or expression, disability, veteran status, or any other protected class. Title IX of the Educational Amendments of 1972 in particular prohibits discrimination based on sex in any educational institution that receives federal funding. This includes sexual violence, sexual misconduct, sexual harassment, dating violence, domestic violence, and stalking. If you witness or experience any forms of the above discrimination, you are asked to report the incident immediately to Public Safety: 812-237-5555 or to the Equal Opportunity & Title IX Office: 812-237-8954.

With respect to sexual discrimination, instructors, faculty, and some staff are required by law and institutional policy to report what you share with them to the Equal Opportunity & Title IX Office. You do, however, have the option of sharing your information with the following confidential resources on campus that are not required to share:

- ISU Student Counseling Center: 812-237-3939; Gillum Hall, 2nd Floor
- Women's Resource Center/Victim Advocate: 812-237-3829; HMSU 7th Floor
- Associate Dean of Students/Respondent Advocate: 812-237-3829; HMSU 8th Floor

For more information about discrimination and the support resources to you through the Equal Opportunity & Title IX Office, visit this website: <https://www.indstate.edu/equalopportunity-titleix>. Please direct any questions or concerns to: Assistant Vice President for Equal Opportunity and Title IX Director; 812-237-8954; Parsons Hall 223; ISU-equalopportunity-titleix@indstate.edu.

Modifications

It is possible that during the semester, assignments may be substituted or eliminated. Every effort will be made to adhere to the schedule, assignments, and exams but, as the professor, I reserve the right to make appropriate changes as needed. Efforts will be made to notify students as soon as possible of any changes to the syllabus or course requirements. It is your responsibility to check email and Blackboard frequently for course correspondence.

Grading

Assignments	Points	Earned Points	Percent	Grade
Plagiarism Quiz	10	376-400	94-100%	A
Personal Assessment	10	360-375.6	90-93.9%	A-
Service: Plan(5);Update(5);Activity(30)	40	352-359.6	88-89.9%	B+
Project Idea (5) Update (5)	10	336-351.6	84-87.9%	B
News Assignment	10	320-335.6	80-83.9%	B-
Presentation (40) Report (40)	80	312-319.6	78-79.9%	C+
Presentation Peer Eval 6@5	30	296-311.6	74-77.9%	C
Epidemiology News Tweet	30	295.6	73.9% or less	F
Sim Reflection Activity 2@20	40			
Quizzes: 2@40 pts each	80			
Final Exam	60			

All assignments are due as noted in this syllabus.

AHS 360 - 002 Fall 2016 - Tentative Course Outline *subject to change and modification

Wk	Date	Topic	Readings/Assignments
Week 1			
1	T 8/23	Welcome, Introductions, and Course Overview	Plagiarism Quiz due by 9/4
1	R 8/25	No Class - Ground Breaking Ceremony – extra credit	Read Chapter 1
Week 2			
2	T 8/30	Community Engagement	Libby Ray, MSW - CASY
2	R 9/1	Project Brainstorming / Personal Assessment	Heather Miklozek, CE Director
Week 3			
3	T 9/6	Group project work time in-class	Personal Assessment Due
3	R 9/8	Ch. 1: History, Philosophy, and Uses of Epidemiology	Project Idea Due
Week 4			
4	T 9/13	Epidemiology Resources – Library – Marsha Miller	Meet in Library, location TBD
4	R 9/15	Epidemiology in the news / Group project work time	News Assignment Due
Week 5			
5	T 9/20	Epidemiology and Social Media	
5	R 9/22	Measurements to Describe Disease Occurrence	Chapter 2: Kevin Forbes, P.E.
Week 6			
6	T 9/27	Measurements / Additional Data & Measures	Chapter 2 / Chapter 3
6	R 9/29	Data & Additional Measures - Disease Occurrence	Chapter 3
Week 7			
7	T 10/4	Descriptive Epidemiology: Patterns of Disease	Chapter 4 / Service Plan Due
7	R 10/6	Group project work time in-class	Quiz #1 (Chapters 1-4)
Week 8			
8	T 10/11	Association and Causality	Chapter 5
8	R 10/13	Infectious Diseases and Outbreak Investigation	Chapter 8 / Project Update Due
Week 9			
9	T 10/18	Simulation Center – disease exposure	Chapter 5 / Chapter 8
9	R 10/20	Simulation Center Debriefing (in-class)	Simulation Reflection #1 Due
Week 10			
10	T 10/25	Group project work time (in class)	Chapter 6
10	R 10/27	Epidemiology and Policy	Chapter 7 / Service Update Due
Week 11			
11	T 11/1	Group project work time	Epidemiology News Tweet Due
11	R 11/3	Group project work time	Quiz #2 (Chapters 5-8)
Week 12			
12	T 11/8	Movie - Part 1	
12	R 11/10	Movie - Part 2	
Week 13			
13	T 11/15	Presentations Due (3 groups, n=3-4 each/ 25 min each)	Peer Evaluations 1,2,3 Due
13	R 11/17	Presentations Due (3 groups, n=3-4 each/ 25 min each)	Peer Eval 4,5,6 Due/Project Due
Week 14			
14	11/21-11/25	NO CLASSES – THANKSGIVING BREAK	
Week 15			
15	T 11/29	Epidemiology and Health Communication	Simulation Center
15	R 12/1	Epidemiology and Health Communication	Simulation Center
Week 16 – Study Week			
16	12/6	Sim Debrief (in-class)/Soc&Behav Epi /Spec App	Sim Reflection #2 Due / Ch. 9 & 10
16	12/8	Social & Behavioral Epi /Special Applications	Chapter 9 / Chapter 10
Week 17			
17	12/12-12/16	FINALS WEEK Final Exam Due by 12/16 by 11:59 pm EST	Final Exam - Chapters 9 & 10 Service Activity Due by 12/16