EPI 390: DISEASE IN SOCIETY
INTRODUCTION TO EPIDEMIOLOGY
& PUBLIC HEALTH
Spring Semester 2019

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            Associate Professor
            Department of Epidemiology and Biostatistics
            College of Human Medicine

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E-mail      dbarondess@epi.msu.edu
Office Hours By appointment

Classroom   C-102 Wilson Hall
Day & Time  T/Th (10:20-12:10 p.m.)

T.A.        Dan Dutkiewicz
E-mail      dutkiew1@msu.edu
Office      B655 West Fee Hall
Office Hours Monday: 11:00 am-1:00 pm, Wednesday: 9:00-11:00 am, and by appointment

Readings
No textbook required. Comprehensive lecture materials and related readings are available on the course’s D2L
web site. From time-to-time, additional reading materials pertinent to the week’s topic(s) will be posted on D2L.
Please check your e-mail and course web site regularly for timely updates.

Objectives
To provide an introduction to the related disciplines of Epidemiology and Public Health, and to address the
complexity of health issues facing contemporary society, in both industrialized and less-developed settings.
This course will present, through the use of extensive case studies, an overview of the contributions that
epidemiologists make to the discovery, prevention and control of disease. We will also discuss how the
disciplines utilize various methodological approaches to differentiate disease causality and association. Critical
thinking skills acquired in this class will help you evaluate questions related to population health and disease
as communicated through scholarly publications and via mass media.

COURSE GRADES

Course grades will be based on the following.....

1. Periodic in-class participation via use TopHat technology.
2. Three (3) in-class exams.

SPECIFIC ASSESSMENT DETAILS

In-class participation (Interactive TopHat): Total of 25% of the final course grade.

In-class exams: Three (3) equally weighted exams (25% each exam). Total of 75% of the final course grade.
CLASS EXAMINATION DATES

Exam 1: Tuesday February 12 (10:20 - 12:10 p.m.)
Exam 2: Thursday March 21 (10:20 - 12:10 p.m.)
Exam 3 (FINAL): Friday May 3 Note: (7:45 - 9:45 a.m.)

All three exams are multiple choice format, non-cumulative, and all questions are equally weighted unless indicated otherwise. General concepts learned throughout the semester will be important for all exams.

Final grades are assigned according to the following distribution -- there is no rounding of final percentages.

4.0=90%; 3.5=85-89% 3.0=80-84%; 2.5=75-79%; 2.0=70-74%; 1.5=65-69%; 1.0=55-64%; 0.0 =<55%

MISSED EXAMS
This course adheres to the University's policy for missed examinations, and strives to be fair to everyone in the class. Should you miss an exam, it is required that you submit a written explanation. If you suffered from ill health, it is your responsibility to obtain a note from a medical professional. Please remember, just any excuse is not acceptable to be permitted to take a make-up exam. The onus is on you to make contact with the Instructor AS SOON AS POSSIBLE (preferably before the test). Make-up exams will not be permitted without documented evidence of an emergency.

These expectations are in keeping with University policy:

"A student absent from an examination without satisfactory explanation will receive a grade of 0.0 on the numerical system. Students unable to take an examination because of illness or other reason over which they have no control should notify the assistant deans of their colleges immediately."
Web Site: https://reg.msu.edu/roinfo/calendar/FinalExam.aspx

HONORS-OPTION
The Honors Option (HO) is available for this course. If you are interested in pursuing the HO, please e-mail the T.A. (and cc the Instructor) within the first week or two of class so that we can add your name to a group contact list on the course website. Briefly, in order to successfully complete the HO, you will be required to attend seminars organized by the Department and prepare short synopses of what you learned. A schedule of seminars is available on the departmental website under the Dept. Information tab -- then see the second link titled “Seminars.” Please note that in order to qualify for the H-Option, you are required to obtain an overall grade of 3.0 or higher for the course. More details for the HO will be provided soon after the course begins.

RELIGIOUS OBSERVANCE
Students are able to miss class to observe ANY religious occasion. However, it is your responsibility to catch up with the course material on those days you are not in class. The T.A. and/or Instructor will be happy to assist you in these circumstances. Please see MSU's religious holiday policy web site at: https://reg.msu.edu/ROInfo/Notices/ReligiousPolicy.aspx.

Attendance
Classroom attendance is not enforced. Nevertheless, we STRONGLY encourage you to attend lectures so that you can participate in-class with the TopHat course integration technology, among many other reasons. Classroom attendance and paying attention are the keys to achieving good grades in this class.

Classroom Etiquette
The focus in each lecture is on active learning and critical thinking. Respectful, courteous student behavior is demanded -- loud talking in competition with class presentations is not. It is most impolite and selfish to those around you to talk loudly among yourselves. Also, please ensure your cell-phone and/or pager is switched to the 'quiet' mode during class and on exam days.
Use of Social Media Derived from the Classroom
As members of a learning community, students are expected to respect the intellectual property of
the course Instructor(s). All course materials presented to students are the copyrighted property of
the course Instructor(s) and are subject to the following conditions of use:

1. Students may record lectures (with Instructor approval) or any other classroom activities but must
   use the recordings only for their own course-related purposes.

2. Students may not post the recordings or other course materials online or distribute them to
   anyone not enrolled in the class without the advance written permission of the course Instructor(s).

3. Any student violating the conditions described above may face academic disciplinary sanctions.

Professional Conduct
Your time in college is both privileged and short. It is also where you should be developing and honing your sense
of professional conduct and ethics. The highest levels of professional behavior are expected in this class;
intellectually, behaviorally, and ethically.

OFFICE HOURS
Part of your learning experience in this course ought to include, as you see fit, meetings with Dr. Barondess and/or
your T.A. Should you not be able to attend office hours to discuss any questions you might have, please make an
appointment.

ACADEMIC HONESTY
The Department of Epidemiology and Biostatistics adheres to the policies on academic honesty as specified by the
university. You are reminded of the Spartan Code of Honor Academic Pledge, which states....

The Spartan Code of Honor Academic Pledge:

“As a Spartan, I will strive to uphold values of the highest ethical standard. I will practice honesty in
my work, foster honesty in my peers, and take pride in knowing that honor in ownership is worth more
than grades. I will carry these values beyond my time as a student at Michigan State University,
continuing the endeavor to build personal integrity in all that I do.”

Please see the following web site for additional details:
http://splife.studentlife.msu.edu/spartan-code-of-honor-academic-pledge

PLAGIARISM
Plagiarism is defined as presenting another person's work or ideas as one's own. You are expected to do your
own work on all assignments and exams. Students who plagiarize will receive a 0.0 grade on the assignment or
exam, and may be in jeopardy of failing the entire course.

STUDENTS WITH SPECIAL NEEDS (ACCOMMODATIONS FOR DISABILITIES)
If you are a student with a disability who requires reasonable accommodations, please call the OPHS Disability
Resource center at 353-9642 (voice) or 355-1293 (TTY). In addition, if a professional has diagnosed you as having a
learning disability, please submit your VISA form indicating the type of assistance you require in writing during the
first few weeks of class.

MISSING CLASS TO PARTICIPATE IN A REQUIRED ACTIVITY
If you must miss any class(es) to participate in a required activity for another course or for the university, you must
provide the Instructor or the T.A. with adequate advanced notice and a written authorization from the faculty
member, or other university administrator, as appropriate.
<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
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<th>Date</th>
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<td>Jan 8</td>
<td>Introduction and Expectations/Developing Critical Thinking Skills</td>
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<td>TH</td>
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<td>Epi Model Building/Hypothesis Testing</td>
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<td>Causation and Association/Establishing Causality</td>
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<td>Central Axiom &amp; Corollaries/Introduction to Incidence &amp; Prevalence</td>
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<td>The Population in Epi/Concept of Caseness</td>
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<td>Descriptive and Analytical Epidemiology/Disease, Illness and Sickness</td>
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<td>How/Where Do Epidemiologists &quot;Find&quot; Interesting Things to Study?</td>
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<td>Measurements of Disease (‘Chili Pepper’ Case Study)</td>
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<td>Measurements of Disease cont. (Reading and Evaluating the Literature)</td>
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<td>Examples of MOD in the Professional Epidemiology Literature/Review</td>
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<td>Feb 14</td>
<td>Osteoporosis Epidemiology (Risk Factors, Exposure, Outcomes)</td>
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<td>Osteoporosis (Evaluating the Literature, Prevention Strategies)</td>
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<td>Smallpox Epidemiology: Virology, History and Eradication (Dr. N. Paneth)</td>
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<td>Prevention in Epidemiology and Public Health</td>
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<td>Forensic Epidemiology Introduction and Historical Background</td>
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<td>Drug Dependence Epidemiology (DDE): Use and Abuse</td>
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<td>Opioids and the Opioid Crisis in Epidemiology and Public Health</td>
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<td>BSE Epidemiology/Video: &quot;The Brain Eaters&quot; (Dr. C. Holzman)</td>
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<td>BSE and Related-Conditions/What Does the Future Hold? (Dr. C. Holzman)</td>
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<td>Polio Epi (Eradication Campaign and Public Health)</td>
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