Syllabus
“Ring Around the Rosie: Environmental Study on the Bubonic Plague”
IU SPEA in London - 2017

Dr. Marc Lame
OFFICE HOURS – Tuesday 2:30-3:30 Or By Appointment
E-MAIL - mlame@indiana.edu

COURSE TITLE: “Ring Around the Rosie: Environmental Study on the Bubonic Plague”

FACULTY: Professor Marc L. Lame, Indiana University.
Teaching Assistants: Logan Pfeiffer

ORIENTATION: June 25, King’s College London

CLASSROOM LOCATION: Waterloo Campus, King’s College London, classroom 1.61 Jun 26- July 6, and July 11, 1.63 on July 10, 3.145 on July 12

PROGRAM DATES: June 24, 2017 – July 15, 2017

CREDITS: three-credit E482/V482/V582 courses

PROGRAM OVERVIEW

The purpose of this three-credit offering is to examine the associations between environmental factors and the Bubonic Plague through a mixture of lectures, field trips, and classroom discussions. The program is offered in an educational context that invites a historical comparison of the impacts of the Plague past, present and future.

It is a management course. However, some of the lectures and case material will have significant scientific and quantitative content.

Most undergraduate SPEA students may obtain V482 credit toward their majors – see an academic advisor for details. MPA, MHA, and MSES students in SPEA can earn V582 credit for the course if, in addition to fully participating in the course, they prepare (solo or in pairs) a research paper.

COURSE GOALS AND OBJECTIVES

Course Goals

• The goal of this course is to associate environmental factors with specific human impact

Course Objectives

Understand the basics of human infectious disease
• Environmental health
• Epidemiology
• Vector borne disease

Understand how ecological concepts can be used to manage environmental/health problems
- Elementary applied ecology
- Entomology and integrated pest management (IPM)
- Global Climate Change
- Biodiversity

Understand the sociological/historical underpinnings of the Plague in England
- History of the plague
- Impacts of the plague on culture – religion, economics, art, etc.

Risk Communication Objectives
- Describe how the principles of risk communication were derived from risk-perception research.
- Explain why fears of some risks are amplified while other fears are assuaged.

REQUIRED TEXT:
Rats – Observations on the History & Habitat of the City’s Most Unwanted Inhabitants
On-line CDC modules for Vector Borne Disease Management

Assigned Readings
Assigned viewing – “Spillover: Zika, Ebola and Beyond” Here are the two links to the videos, one through PBS, the other through youtube:

https://www.youtube.com/watch?v=0dAS9Iw24

COURSE REQUIREMENTS
It is my belief that all assignments that are required to obtain a desired grade are assigned for the purpose of learning. I expect students to be able to DISCUSS READING ASSIGNMENTS in class. Because of the unique and diverse nature of this course, there will be frequent evaluations of how the student is assimilating information-2 QUIZZES AND A FINAL EXAM. These evaluations will be short answer and essay questions. Assigned readings are subject to quiz and test questions. There will be a comprehensive final examination.

There will be an additional homework assignment--a “Plague Management Plan”. This plan is designed to stimulate discussion regarding the management of the Bubonic Plague in the1300s BUT with current knowledge of vector borne disease management. This assignment will be due in the last week of class.

Class & Grading Policies: There is an attendance policy (see below). Please communicate with me if you have a medical problem which might impact your grade/attendance or if you need to leave class early or attend after the lecture begins. Computers or cell phones are not to be used in class. You can’t participate if you are not in class. Guest lecturers are provided to expose you to the ‘REAL WORLD’ of the management of epidemics. Take advantage of these individuals and their experience. I do resolve borderline grades via one’s attendance record. Again, if you have a disability relevant to our class please notify me during the first week.

Negotiations regarding changes to quiz are exam grades will only be accepted prior to the next quiz or exam.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>2 quizzes</td>
<td>20% each</td>
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<tr>
<td>Plague Plan</td>
<td>20</td>
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<tr>
<td>Participation</td>
<td>10</td>
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<tr>
<td>Final Exam</td>
<td>30</td>
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ATTENDANCE POLICY – two unexcused absences will result in the reduction of one letter grade (e.g. – B to C). I do resolve borderline grades via one’s attendance record. I do not give make-up quizzes or exams. Missed quizzes, exams or report presentations can only be excused through documentation of doctor or clergy, OR by arrangements made in the first week of the semester.

- Faculty do not have to consider accommodations for the purpose of allowing students to travel away from Bloomington for a religious observance.
Any student who is unable to attend classes or participate in any examination, study, or work requirement on some particular day(s) because of their religious beliefs (his/her) must be given the opportunity to make up the work which was missed, provided that the makeup work does not create an unreasonable burden upon Indiana University. Upon request and timely notice, students shall be provided reasonable accommodation.

Attendance policies allowing for a specific number of dates to be missed without impact on a student’s grade should not count within that number absences for religious observance. Making accommodations requires faculty and students to find suitable accommodation to cover the material from the course and complete all required work, including exams. It is not an appropriate accommodation to permit a student to not complete a portion of material from the course, or to miss an exam, and simply reduce that student’s grade.

Under IU policy, students are required to request accommodation for religious observance before, not after, it occurs (the deadline for such requests suggested by the policy is the end of the second week of a regular semester, though instructors can extend that deadline if they wish). Instructors should include information about accommodation and the deadline for requesting it in their syllabi. But students are not required to supply evidence of their attendance at the religious services or events in order to qualify for any accommodation granted to them.

SPEA Academic Policies

Academic Dishonesty
SPEA faculty do not tolerate cheating, plagiarism, or any other form of academic dishonesty. If you have not done so, you should read the IUB Code of Student Rights, Responsibilities, and Conduct, which can be accessed at http://dsa.indiana.edu/Code/ so you will be sure to understand what these terms mean and what penalties can be issued for academic dishonesty. Academic dishonesty can result in a grade of F for the class (an F for academic dishonesty cannot be removed from the transcript). Significant violations of the Code can result in expulsion from the University.

Plagiarism is using another person’s words, ideas, artistic creations, or other intellectual property without giving proper credit. According to the Code of Student Rights, Responsibilities, and Conduct, a student must give credit to the work of another person when he/she does any of the following:

a. Quotes another person’s actual words, either oral or written;
b. Paraphrases another person’s words, either oral or written;
c. Uses another person’s idea, opinion, or theory; or
   d. Borrows facts, statistics, or other illustrative material, unless the information is common knowledge.

You can also use the program “Turn-it-In” to check for plagiarism: http://www.indiana.edu/~turnitin/

Communication between Faculty and Students
In order to verify the identity of all parties involved, effective September 1, 2004, all email communication from current SPEA students to SPEA staff must originate from an Indiana University email account. For email communication with SPEA faculty, current SPEA students should refer to course syllabi for instructors’ preferences (Canvas, Webmail, etc.). This policy applies to current students only. Instructions for forwarding your IUB email to another account can be found at http://kb.indiana.edu/data/beoj.html?cust=687481.87815.30

Course Withdrawals
Students who stop attending class without properly withdrawing from the class may receive a grade of F. It is important to withdraw from a course within specified timeframes (see chart below). Note that withdrawals after Week 12 of a regular session or Week 4 of a summer session are rarely granted. Poor performance in a course is not grounds for a late withdrawal.

Incompletes
A grade of incomplete (I) indicates that a ‘substantial portion’ of the work in a course has been satisfactorily but not entirely completed by the student at the end of the semester. The incomplete can be given to a student facing a hardship such that such that it would be unjust to hold the student to the established time limits for completing the work. To be eligible for the incomplete in a SPEA course, the student’s work must be of passing quality, and the student must have completed 75% of the course requirements. Poor performance in a course is not grounds for an incomplete. SPEA follows the campus guidelines, which may be accessed at the Office of the Registrar’s website at http://www.indiana.edu/~registra/Registration/genreginfo.html#inc, in awarding incompletes. Incompletes must be removed within a time period not to exceed one year after the semester in which the student was enrolled in the course. The incomplete will revert to an ‘F’ if the work is not completed within the allotted timeframe established by the instructor.
### Week of June 25
**Monday, 10-11:30 AM**
Introduction and Syllabus Review
- The Plague & You: yesterday & today
- What is the Plague?
- Why do we need to manage the environmental factors of the Plague?

**Tuesday, 12-5 PM**
No morning Class – *Afternoon field trip to Museum of London*

**Thursday, 10-11:30 AM**
Who Manages the Plague?
- What causes the Plague?
- Plague types and treatments
- Effects of the Plague on British and European societies
- (Economic, Religious, Architecture, Art, etc.)

**QUIZ 1**

### Week of July 2
**Monday, 10-11:30 AM**
Vector Borne Disease
- Rats & CDC module 1

**12-1:30 PM**
- Rats
- Fleas

- CDC module 2

**Tuesday, 10-11:30 AM**
Humans
- Environmental Factors of the Plague

**12-1:30 PM**
- The Applied Ecology of the Plague
  - Recent Trends in Plague Ecology By Kenneth L. Gage and Michael Y. Kosoy
  - Causes
  - Treatment
  - Surveillance

**Thursday, 10-11:30 AM**
Policy for Plague Management – modern Public Health & Disease Prevention (National, State, Local)

- Crisis Communication for the Plague Epidemic

**12-1:30 PM**
- QUIZ 2 & Training for Planning presentations

### Week of July 9
**Monday, 10-11:30 AM**
Contributions to the Black Death
- The Past Plague Pandemics (Justinian, Black Death, Third) in Light of Modern Molecular Life Science Insights

- Culture
  - Climate
  - Guest Speaker – City of London Health Department

**12-1:30 PM**
- The Effects of Global Climate Change on the Plague
  - Plague and Climate: Scales Matter, Gage & Leir
  - Bioterrorism and the Plague

**Tuesday, 10-11:30 AM**
Your Plague Management Plan – in class exercise

**12-1:30 PM**
- FINAL EXAM REVIEW

**Wednesday, 10-11:30 AM**
Review and discussion of Management Plan

**12-1:30 PM**
- FINAL EXAM