

**BMS 557 - Emerging Infectious Diseases  
Spring 2009**

**Time:** 12:30-1:30 PM, Wednesdays

**Location:** DAI Auditorium A, 120 New Scotland Avenue

**Course coordinator:** Linda Styer (474-2163, [lstyer@wadsworth.org](mailto:lstyer@wadsworth.org))

**Learning Objectives**

Students will be able to define ‘emerging infectious disease’ and understand important factors leading to disease emergence. Basic principles of infectious disease epidemiology, including outbreak investigation and surveillance, will be discussed. Information about specific emerging infectious diseases will be presented, including recent infectious disease outbreaks within New York State. Students will gain an appreciation of the important role of public health scientists in monitoring and controlling emerging infectious diseases.

| <b>Date</b>      | <b>Lecture #</b> | <b>Topic</b>                                 | <b>Instructor</b> | <b>Email</b>             |
|------------------|------------------|--|-------------------|--------------------------|
| Jan 21           | 1                | Introduction to emerging infectious diseases | Styer             | lms24@health.state.ny.us |
| Jan 28           | 2                | Epidemiology and disease surveillance        | Person            | cjp05@health.state.ny.us |
| Feb 4            | 3                | Food-borne pathogens                         | Musser            | musser@wadsworth.org     |
| Feb 11           | 4                | Influenza: a continually emerging pathogen   | Wentworth         | dwentwor@wadsworth.org   |
| <i>Feb 16-21</i> |                  | <i>Winter Break</i>                          |                   |                          |
| Feb 25           | 5                | Zoonoses associated with rodents ***         | Eidson            | mxe04@health.state.ny.us |
| Mar 4            | 6                | Transmissible spongiform encephalopathies    | Bernard           | kab17@health.state.ny.us |
| Mar 11           | 7                | Emerging mosquito-borne viruses              | Styer             | lms24@health.state.ny.us |
| Mar 18           | 8                | Emerging fungal infections                   | Ramani            | rxr15@health.state.ny.us |
| Mar 25           | 9                | Hepatitis C virus                            | Parker            | mmp09@health.state.ny.us |
| Apr 1            | 10               | TB: Re-emergence of an age-old killer        | Pendleton         | arp06@health.state.ny.us |
| <i>Apr 8-13</i>  |                  | <i>Spring Break</i>                          |                   |                          |
| Apr 15           | 11               | Parasitic diseases                           | Keithly           | keithly@wadsworth.org    |
| Apr 22           | 12               | Rabies and white-nose syndrome in bats       | Rudd              | rjr06@health.state.ny.us |
| Apr 29           | 13               | SARS   | Masters           | masters@wadsworth.org    |

**\*\*\* Class meets in DAI Executive Conference Room this week only**

**Reading Materials**

Since there is no text book for the course, handouts and lecture contents will be the required reading materials.

**Exams**

There will be two take home exams. Each lecture will contribute one essay question to the exams. Exam 1 (lectures 1-7) will be e-mailed to students on **March 13** and will be due by 1 pm on **March 18**. Exam 2 (lectures 8-13) will be e-mailed to students on **May 1** and will be due by 1 pm on **May 6**. Five points will be deducted for each day that an exam is late.

**Attendance and class participation**

Students can earn 2 points per lecture: 1 for attending lecture and 1 for participating in the lecture (asking a question, etc.)

**Written summary of disease outbreak reported on ProMED-mail**

The objectives of this assignment are (1) for students to become familiar with ProMED-mail, an internet based reporting system for infectious disease outbreaks and (2) to give students a chance to further explore an emerging infectious disease that is of interest to the student. The written summary is due by 1 pm on **April 29**. Two points will be deducted for each day that the summary is late.

**Grading**

|                                     |                     |
|-------------------------------------|---------------------|
| Take-home exams                     | 125 pts (71%)       |
| Attendance and class participation  | 25 pts (14%)        |
| Written summary of disease outbreak | <u>25 pts (14%)</u> |
|                                     | 175 pts             |