

**Emerging Infectious Disease  
PHC 6510**

Thursdays 6:20-9:05 pm; CPH 2004  
Semester: Fall 2008

**Course Description:** This course addresses important infectious diseases which are either newly emergent (eg. the Avian Influenza, West Nile virus) or are re-emerging in various parts of the world after a period of relative retreat (Dengue, TB, malaria). Some of the diseases occur in relatively remote areas in the United States (eg. filariasis), while others such as new strains of antibiotic-resistant bacteria (eg. MRSA) are becoming commonplace in the U.S. This course will be in the form of a series of graduate seminars, and various prominent experts have been invited to present the lectures. Students will also be involved in presenting new information they have gathered, working together in groups on topics predetermined by the Course Director. Student group members will present their seminar to the other students, the instructor, TA, as well as Guest Lecturers.

**Instructor Information:**

Instructor Name: **Azliyati Azizan, M.Sc., Ph.D.**  
Office/ mailing address: Room 1119, Department of Global Health  
College of Public Health, MDC 56  
13201 Bruce B Down Blvd., Tampa, FL 33612-3805

Office Hours: Thursdays 4:00-5:45 PM, and by appointment (preferable by email notification)

Note: Students with questions for Guest Lecturers may contact them through the TA and Dr. Azizan, or directly (as specified by each guest lecturer).

Phone: Work 813-974-2079

Email address: [aazizan@health.usf.edu](mailto:aazizan@health.usf.edu)

**Objectives:**

- 1) To present an overview and updated information about selected topics concerning emerging infectious diseases that are of importance around the globe.
- 2) To encourage dialogue on the topic of discussion and to promote interaction between students and lecturers in the form of question and answer sessions.
- 3) To test for understanding and retention of knowledge acquired in lectures through Exams I and II (multiple choice questions).
- 4) To encourage student interaction through group exercises, whereby group members are to devise and implement plans to achieve goals and earn points for group project (see below). Group members are encouraged to meet or at least be in contact regularly to achieve these goals.
- 5) To encourage self-motivation by offering students the options of attempting bonus questions on material extracted from the recommended text book.

**Attendance:** Attendance is greatly encouraged throughout the semester. As a reminder, exam questions are derived from lecture material. Often, the accompanying PowerPoint files lack details covered in class. Students missing classes run the risk of being under-informed, which may result in compromised grades. Attendance is also mandatory for the classes where student groups present their report (December 4th). On these mandatory classes, attendance will be taken; if there are unexcused absences (ie students need to contact Dr. Azizan by 4 pm on lecture day), the student may run the risk of compromised grade.

**Permission to Use Lectures:** Dr. Azizan's policy about the distribution and use of any materials in this course including audio (taping), video and print or electronic documents is as follows: students DO NOT have the right to use any of the material from PowerPoint presentations for (their own) other future presentations without clear permission from Guest Lecturers and Dr. Azizan. Students are allowed to audiotape lecture, if this contributes to enhanced comprehension of lecture material.

**Grading Scale:** There will be a total of 2 exams in this course - Exams 1 and 2 are not comprehensive. Questions will be submitted by Guest Lecturers, and final scores will be determined by Dr. Azizan. Group project\* and group class note-taking\*\* are described in the paragraphs below. These are designed to encourage self-motivation and cooperation among students in the class.

Main course grading points

|                                |                              |
|--------------------------------|------------------------------|
| Exam 1                         | 40%                          |
| Exam 2                         | 40%                          |
| Group project*                 | 20%                          |
| <u>Extra credit Activities</u> |                              |
| Group class note-taking**      | ++                           |
| Text book reading              | ++ (to add to Exams 1 and 2) |

**Grading Scale: A= (90-100), B= (80-89.9), C= (70-79.9); D=(60-69.9); F= <60.**

**Course Outline**

**Lecture 1**  
 August 28 Course Introduction/Emerging Infectious Diseases  
 Dr. Azliyati Azizan  
 Career Opportunities in Emerging Infectious Diseases  
 Dr. Wilbur Milhous, Associate Dean for Research

**MODULE 1:  
 MAJOR PANDEMICS**

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**Topics:** HIV/AIDS, Malaria, Tuberculosis, Avian Influenza, Emerging Vector-borne Viral Diseases

**Lecturers:**  
 Drs. Logan, Stark, Kyle, Casanas, and Haiduven

EID PHC6510  
September 4

08-19-08

**Lecture 2**  
HIV/AIDS  
Dr. Logan

September 11

**Lecture 3**  
Arboviruses  
Dr. Stark

September 18

**Lecture 4**  
Malaria  
Dr. Kyle

September 25

**Lecture 5**  
Tuberculosis  
Dr. Casanas

October 2

**Lecture 6**  
Healthcare Implications of Emerging Antimicrobial resistance  
Dr. Donna Haiduven

October 9

(Midterm)

**Exam 1**  
**Material tested: Lectures 1-6**  
**Video (digitized available on Blackboard)**

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**MODULE 2:  
SELECTED TOPICS  
IN INFECTIOUS  
DISEASES**

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**Topics:**  
Bioterrorism, Prion Diseases, Healthcare Implications of Emerging Antimicrobial Resistance, Leprosy, Parasitic Diseases, water-borne diseases etc.  
**Lecturers:**  
Drs. Seyfang, Cannons, Potter, Heinzl, Van Olphen, and Azizan

October 16

**Lecture 7**  
Parasitic protozoa and helminth  
Dr. Seyfang

October 23

**Lecture 8**  
Bioterrorism  
Dr. Andy Cannons  
**GROUP PRESENTATION OUTLINE DUE!!!**

October 30

**Lecture 9**  
Prion diseases  
Dr. Hunt Potter

November 6

**Lecture 10**  
Influenza  
Dr. van Olphen

- November 13                    **Lecture 11**  
Leprosy  
Dr. Fred Heinzl
- November 20                    **Lecture 12**  
Water-borne infectious diseases/Ms. Wendy Mussoline  
Dengue Hemorrhagic Fever/Dr. Azizan
- (November 27-no class)      **(THANKSGIVING HOLIDAY)**  
**GROUP PP PRESENTATION AND NOTES DUE!!!**
- December 4                      **STUDENT GROUP PRESENTATIONS!!!**
- December 11                    **FINAL-Exam 2 (Lectures 7-12)**

### Additional Course Information:

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**Dates:** Thursdays 6-8:50 PM, August 28, 2008 – December 11, 2008

**Location:** CPH 2004

**Credit Hours:** 3

**TA information:**

TA Name Wendy Mussoline

Office address: N/A

Office Hours: N/A

Email address: [wmussoli@health.usf.edu](mailto:wmussoli@health.usf.edu)

Preferred method of contact: E-mail

Reply policy: Mon-Fri.( 24-48 hrs), Fri-Sun (48-72 hrs)

**Recommended Text:** The Power of Plagues by Irwin W. Sherman  
(Textbook available at the Health Science bookstore)

**(Extra credit points to be added to exams 1 and 2 grades)**

Note on Bonus questions:

Extra credit questions will be offered during Exams 1 and 2, and are optional.

Students who chose not to read the text may also attempt these bonus questions, though a word of caution is that these questions are designed to be detail-oriented (which should be straight-forward to those who read the book chapters).

**Course Purpose:** To meet the comprehensive course requirements of the MPH program (for the Global Communicable Disease Track in GLO dept). This course is open to other students across campus who satisfy prerequisite requirement; permit for registration from Dr. Azizan is needed to register for this course for non-degree and off-campus students.

**Course Format:** Guest Lecturers will present lectures on topics that represent their areas of expertise, and will design exam questions on material covered in their particular lectures. Contact information for each lecturer will be made available. Students are encouraged to contact the lecturers directly should there be specific questions. Students should contact the Dr. Azizan and TA for any questions and concerns regarding the course. Contact via email is always preferable, but students could also make appointments for office visits.

**Exams 1 and 2 (40% + 40% final grade)**

From each lecture, 5 multiple choice questions will be designed by the lecturers and submitted to the Instructor and TA. These questions will be pooled into exams 1 and 2. Exam 1 will be on material from lectures 1 through 6. Exam 2 will be on material for lectures 7 through 12. Therefore, each exam will have a total of 30 questions. For extra credit points, one additional question per chapter (of the designated text book) will be included into each exam as options for students to attempt; these will also be in the multiple choice format. Students will be given 2 hours for each exam. Student will earn up to 40% final course grade for each exam. Extra credit points will be added to the final total obtained for each exam score.

**Group projects\***  
**(20% final grade)**

The class will be divided into 6 groups (depending on the total # of students). Each group should select a leader. The leader can assign/delegate group members of additional responsibilities. Please make contact information available for all members in the group. Each group member must play a role in meeting these goals:

- 1) Prepare and turn in outline for presentation by the October 23rd class.
- 2) Prepare and turn in a power point presentation by November 20th. Please cite references appropriately, and include information on the latest research topics. Please deposit into digital drop-box through blackboard, by deadline.
- 3) Prepare and present a (20-minutes) PowerPoint presentation on December 4th. There can be more than one presenter, but each group should not exceed the time limit (20 min). There will be 5 minutes allotted for questions and discussion. Please practice for an effective presentation.
- 4) Each member of the group must participate. Please keep record of meetings and discussions, and attendance for each meeting. Every member of the group will obtain the same grade for presentation, unless it is made clear to Dr. Azizan that specific group member(s) did not adequately contribute to the success of the group to attain goals.
- 5) A concise short report (between 2-4 pages, including list of references) needs to be turned in to Dr. Azizan by the deadline (November 20th). This report should contain content/text that accompanies slides in the PowerPoint presentation (ie; number slides consecutively, and number corresponding notes accordingly).
  - Suggestion: Please do not wait until very close to the deadlines to prepare the presentation. Please feel free to be creative (but communicate with Dr. Azizan and TA if there are any special needs for “unique” presentations).
  - Groups will be given points based on quality (not quantity) of presentation and report. If there is a need to pass handouts, or use other visual-aids, please feel free to do so.
  - Guest lecturers will be invited to the student presentations.
  - Total possible points for the group project will equal to 20% of final grade.

**Group class-note taking\*\***  
**(Extra credit points)**

In the past, some students had trouble taking comprehensive notes from lectures that could prepare them adequately for exams. This year, I would like to offer extra credit points to group members, who are interested to earn extra points that can be counted towards their final course grade. I will have the sign up sheet with suggestion for each group to prepare lecture notes, which will be posted on BB into each lecture folder. Each group can volunteer to do notes for two lectures each. Also, only students who actively participate in preparing these notes will be awarded the extra credit points.

**Instructor Expectations:**

Students are expected to learn course material by attending lecture, reviewing, and making independent efforts to ask questions in class and outside of class. Please reach out when confused about parts of lecture material, and do not wait until right before exam time to study. Students are also expected to work together in a group to learn additional material by “doing”. This is a concept that should be adopted by students at the graduate level.

**Grading Policies:** Grades are assigned as described above. Time limit on exams and presentations are strictly enforced. Feedback on assignments and exams, review of exam questions, consequences for late assignments, and making up exams or assignments will be provided by contacting the TA and Dr. Azizan. Please request make-up exams well in advance (at least a week) of exam date, except for emergencies. Students/groups will not receive the grade points if they do not follow directions for submission of assignments as specified and discussed above.

**Incomplete Policy:** CPH policy: [http://publichealth.usf.edu/academicaffairs/academic\\_procedures.html](http://publichealth.usf.edu/academicaffairs/academic_procedures.html)

**Class Participation:** Exceptional class participation is greatly encouraged.

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**The following are helpful links that may be of use to students:**

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**Institutional Policies:**

Student Handbook: <http://www.sa.usf.edu/handbook/>

Student Conduct: USF Student Rights/Responsibilities:  
<http://www.sa.usf.edu/handbook/rights/StudentRightsResponsibilities.htm>

USF Student Code of Conduct:  
<http://www.sa.usf.edu/handbook/rights/StudentCodeofConduct.htm>

Academic Dishonesty/Plagiarism: Plagiarism will not be tolerated and is grounds for failure. Review USF policy on plagiarism by clicking on link to student handbook and using search function for “plagiarism”.  
<http://www.sa.usf.edu/handbook/03/academics/ImportantAcademicPolicies.htm>

The University of South Florida has an account with an automated plagiarism detection service, which allows instructors to submit student assignments to be checked for plagiarism. I reserve the right to 1) request that assignments be submitted to me as electronic files and 2) electronically submit assignments to Turnitin.com. Reports are compared automatically with a huge database of journal articles, web articles, and previously submitted papers. The instructor receives a report showing exactly how a student's paper was plagiarized. For more information, go to [www.turnitin.com](http://www.turnitin.com) <<http://www.turnitin.com/>>; and <http://www.ugs.usf.edu/catalogs/0304/adadap.htm#plagiarism>.

Special Accommodations: <http://www.asasd.usf.edu/index.htm>

Students: <http://www.sds.usf.edu/Students.htm>

Faculty: <http://www.asasd.usf.edu/faculty.htm>

Holidays and Religious Observances: <http://www.sa.usf.edu/handbook/policies/ReligiousPracticesPolicy.htm>

**Additional Resources for Students:**

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|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Library Resources:                              | ‘How to Find a Journal Article’:<br><a href="http://itt.usf.edu/publichealth/library/tutorial/index.html">http://itt.usf.edu/publichealth/library/tutorial/index.html</a><br>USF Library Resources and Services: <a href="http://www.lib.usf.edu/">http://www.lib.usf.edu/</a><br>Shimberg Health Sciences Library: <a href="http://hsc.usf.edu/library/">http://hsc.usf.edu/library/</a> |
| Plagiarism:                                     | Tutorial on Plagiarism for Students:<br><a href="http://www.cte.usf.edu/plagiarism/plag.html">http://www.cte.usf.edu/plagiarism/plag.html</a>                                                                                                                                                                                                                                             |
| Safe Assignment:                                | Instructions to submit an assignment using Safe Assignment.<br><a href="http://itt.usf.edu/technology/plagiarism/studentman.pdf">http://itt.usf.edu/technology/plagiarism/studentman.pdf</a>                                                                                                                                                                                              |
| Creating Citations &<br>Using APA Style:        | <a href="http://web.lib.usf.edu/usflibraries/help-styleguides.html">http://web.lib.usf.edu/usflibraries/help-styleguides.html</a>                                                                                                                                                                                                                                                         |
| Using Bibliographic<br>Management Software:     | <a href="http://itt.usf.edu/publichealth/library/bms/bms_v5_interface.html">http://itt.usf.edu/publichealth/library/bms/bms_v5_interface.html</a>                                                                                                                                                                                                                                         |
| Netiquette (online<br>communication etiquette): | <a href="http://itt.usf.edu/publichealth/standards/syllabus/Online_Netiquette.pdf">http://itt.usf.edu/publichealth/standards/syllabus/Online_Netiquette.pdf</a>                                                                                                                                                                                                                           |