

## WATERBORNE DISEASES

---

**Instructor:** Dr. Sizemore  
**Office:** Center for Marine Science 1118  
**Telephone:** 962-2304  
**Email:** [Sizemorer@uncw.edu](mailto:Sizemorer@uncw.edu)

**BIO 495**  
**Fall 2008**  
**Office hours: MWF 9:00-9:50**  
**or by Appointment**

---

<u>No.</u>	<u>Date</u>	<u>Topic</u>	<u>Speakers</u>
1	Aug 21	Introduction	Sizemore
2	Aug 28	Water microbiology	Sizemore
3	Sept 4	Scientist Biography	Baker, Sharpe, Groves
4	Sept 11	Scientist Biography	Brydon-Corton, Grossnickle, Hopkins
5	Sept 18	Scientist Biography	Coppedge, Pratt, Hydrusko
6	Sept 25	Scientist Biography	Clemens, Myers, Formyduval
7	Oct 2	Practice Talk	Baker, Sharpe, Groves
8	Oct 9	Practice Talks	Brydon-Corton, Grossnickle, Hopkins
9	Oct 16	Practice Talks	Coppedge, Pratt, Hydrusko
10	Oct 23	Practice Talks	Clemens, Myers, Formyduval
11	Oct 30	Final Presentations	Baker, Sharpe, Groves
12	Nov 6	Final Presentations	Brydon-Corton, Grossnickle, Hopkins
13	Nov 13	Final Presentations	Coppedge, Pratt, Hydrusko
14	Nov 20	Final Presentations	Clemens, Myers, Formyduval

August 27 = Last day to add or drop without a grade

October 9 = Last day to withdraw with W

---

<b>THE DEPARTMENT OF BIOLOGICAL SCIENCES STRONGLY SUPPORTS THE ACADEMIC HONOR CODE AS STATED IN THE STUDENT HANDBOOK AND CODE OF STUDENT LIFE AND WILL NOT TOLERATE ACADEMIC DISHONESTY</b>
---

## **Grades:**

Grades in this course will be based primarily on the quality of the final presentation. Attendance and participation in class discussions will also affect grades. Each student will be expected to make 3 15 -20 minute (presentations shorter than 10 minutes will usually result in a lower grade) oral presentations using PowerPoint during the semester. The first 2 presentations will not be graded but will be critiqued. The third presentation will be graded. Students will be asked to submit written reviews of the first 2 talks. Anonymous copies of these reviews will be given to each speaker. If the student does not have experience or access to a computer with PowerPoint please notify the instructor early in the semester.

By the August 28 class period, students must have picked one waterborne disease and a microbiologist who work with that disease (see list below). The student is expected to go onto the internet to learn a little bit about the disease (a good link is: [Waterborne diseases](#) or <http://www.cdc.gov/ncidod/dbmd/diseaseinfo/default.htm>) and develop a biography on their scientist which will be presented as their first talk. Then pick 2 current articles (2002-2008) which your scientist authored. These articles should be from scientific literature not the popular press must be approved in advance by the instructor. You will be expected to clearly and precisely explain these articles to the class. The first article presented will be considered a practice talk but the second article will be graded. It is expected that the students will have to read additional background material to understand the articles.

While appropriate audiovisual usage is expected, a clear oral presentation is more important to the grade than a flashy audiovisual presentation. Students not presenting will be expected to ask questions after the talks and the presenter should understand the article well enough to answer questions. Attendance is mandatory for this class and missed classes will lower grades. If you must miss a class, consult the instructor before the absence. If an emergency causes the student to miss class, please notify the instructor as to the nature of the emergency. The instructor may excuse absences under appropriate circumstances.

**Important Waterborne Diseases:**

Cholera  
Bacterial dysentery  
Amebic dysentery  
Cryptosporidiosis  
Rotavirus  
*Vibrio parahaemolyticus*  
*Vibrio vulnificus*  
Polio  
Legionellosis  
Leptospirosis  
*Pfiesteria piscicida*  
Hepatitis A  
Enterotoxigenic *E. coli*  
*Karenia brevis*  
Ciguatera  
Salmonellosis

**Scientists:**

John J. Mekalanos, Rita Colwell  
O. J. Perdomo  
C.G. Clark  
R. Fayer  
M.A.Borchardt  
Linda McCarter  
Jim Oliver  
D. J. Filman  
N Cary Engleberg  
Solly Faine  
Joanne M. Burkholder  
William S Mason  
Moselio Schaechter, James Kaper  
Dan Baden  
A D Cembella  
Dennis Kopecko, Stephanie Doores