

Marshall University

College of Science
Department of Biological Sciences Syllabus

# Course

BSC 538

## Course Description

## Introduces students to infectious diseases that are either newly emergent or have returned to prominence within the last decade. Topics include Epidemiology, Case studies, Zoonoses, Foodborne disease outbreaks, impact of climate change on emerging diseases, as well as the diseases themselves (Ebola, Nipah, influenza, others).

## Credits

3 hr Graduate

## Prerequisites

BSC 302 or 320 or 322 or 324

## Term/Year

Fall 2018

## Class Meeting Days/Times

MWF 9-9:50

## Location

Science Building Room 374

## Academic Calendar

For beginning, ending, and add/drop dates, see the [Marshall University Academic Calendar](http://www.marshall.edu/calendar/academic) (URL: <http://www.marshall.edu/calendar/academic> ).

# Instructor

Dr. Gary E. Schultz, Jr.

## Contact Information

Office: 309 Science Building

Office Hours: MW 10–12 AM; T 9–12 AM

Feel free to drop by at any time during posted office hours, however people who call or email ahead for an appointment will be given priority. An appointment is required outside of posted office hours.

Office Phone: 304-696-7057

Marshall Email: schultzga@marshall.edu

# Required and/or Recommended Texts and Materials

## Required Texts, Additional Reading, and Other Materials

## Emerging Epidemics – The Menace of New Infections by Madeline Drexler (2009) (paperback – may be ordered from Amazon, Barnes and Noble, AbeBooks.com, other used booksellers. Additional Reading may be required during the semester. These readings will be online or provided by the instructor.)

# Course Student Learning Outcomes

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

| Course student learning outcomes | How students will practice each outcome in this course | How student achievement of each outcome will be assessed in this course |
| --- | --- | --- |
| Students will be exposed to the study of epidemiology. | In class lectures, group work, class discussions, writing assignments. | Exams, quizzes, group projects, participation grades, presentations. |
| Students will explore how emerging infectious diseases have affected the history of mankind and how they may impact our future. | In class lectures, group work, class discussions, writing assignments. | Exams, quizzes, group projects, participation grades, presentations. |
| Students will learn about specific emerging and re-emerging diseases | In class lectures, group work, class discussions, writing assignments. | Exams, quizzes, group projects, participation grades, presentations. |

# Course Requirements/Due Dates

Two exams @ 50 points each 100 points

 Quizzes, homework, and in-class activities 100+ points

 Participation/attendance during presentations (see below)

 Case study paper 75 points

 Presentations 75 points

# Grading Policy

Final letter grade: ≥89.5% of total available points = A; 79.5-89.4% of points = B; 69.5-79.4% of points = C; 59.5-69.4% points = D; < 59.5% of total available points = F.

Late work is accepted with a 20% penalty for each day late.

# Attendance Policy

Attendance at all scheduled lectures and exams is expected. Lectures, discussions, and presentations only occur once. If you miss class, you are likely to lose points due to missing a quiz, writing assignment, discussion, activity, etc. Anything we cover in class, including lectures, discussions, movies, presentation, podcast, or any exercise will be included on exams. Participation and attendance for presentations is required and absences will be penalized as below:

**Participation**:

0.5 points ADDED to final grade PERCENTAGE (must ask at least 1 question during presentations)

1.0 point SUBTRACTED from final grade PERCENTAGE if no questions are asked.

**Attendance**:

0.5 points ADDED to final grade PERCENTAGE (miss 2 or fewer presentations)

1.0 point SUBTRACTED from final grade PERCENTAGE if 3 or more presentations are missed.

# University Policies

By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to [Academic Affairs: Marshall University Policies](http://www.marshall.edu/academic-affairs/policies/). (URL: http://www.marshall.edu/academic-affairs/policies/ )

* Academic Dishonesty Policy
* Academic Dismissal Policy
* Academic Forgiveness Policy
* Academic Probation and Suspension Policy
* Affirmative Action Policy
* Dead Week Policy
* D/F Repeat Rule
* Excused Absence Policy for Undergraduates
* Inclement Weather Policy
* Sexual Harassment Policy
* Students with Disabilities (Policies and Procedures)
* University Computing Services Acceptable Use Policy

# Course Schedule

| Week  | Activity/Assignment | Points (Percentage) | Due Date |
| --- | --- | --- | --- |
| 1 | Intro/Disease/Viruses(in class activity or quiz) | 10+ |  |
| 2 | Viruses/Epidemiology(in class activity or quiz) | 10+ |  |
| 3 | Epidemiology/Case Studies(in class activity or quiz) | 10+ |  |
| 4 | Case Studies/Influenza(in class activity or quiz) | 10+ |  |
| 5 | Influenza/Zoonoses(in class activity or quiz) | 10+ |  |
| 6 | Exam 1 (Oct 3) | 50 |  |
| 7 | Foodborne/Antibiotic Resistance(in class activity or quiz) | 10+ |  |
| 8 | Case Study DueAntibiotic Resistance/Climate Change(in class activity or quiz) | 7510+ |  |
| 9 | Climate Change/History/Bioterrorism(in class activity or quiz) | 10+ |  |
| 10 | Specific Diseases(in class activity or quiz) | 10+ |  |
| 11 | Student Presentations  | 75 |  |
| 12 | Student Presentations |  |  |
| 13 | Student Presentations |  |  |
| 14 | Final Topics (TBD)(in class activity or quiz) | 10+ |  |
| 15 | Exam 2 (W or F Dec 5 or 7) | 50 |  |