

Public Health and Disease
BIO 140.PP1
Winter 2017

Class meeting times: This is a 3-credit course, meeting from 5:30-8:30 PM each Friday.

Instructor: S. Wisniewski, MS

Course Description: Provides an evidence-based approach to the concepts of public health. Topics covered include infectious (contagious) and non-infectious (chronic) diseases along with genetic and environmental factors in health and disease. Prerequisites- ENG 085, ENG 090 and MAT 020

Course Objectives:

Following the completion of this course, students will be able to:

1. Demonstrate the role of public health in the context of other sciences
2. Use terms described in class to categorize and relate public health concepts
3. Identify and locate sources of information on public health
4. Differentiate causes of infectious and non-infectious diseases
5. Understand the role that genetics plays in disease
6. Demonstrate how cancer forms and which forms are most problematic for treatment
7. Demonstrate a link between environmental contamination and health
8. Create and interpret graphs using epidemiological data
9. Identify the public health resources in each students' community
10. Relate public health findings to personal health and decision making

General Education Requirements:

The course goals and objectives incorporate specific General Education Outcomes (GEOs) established by the JCC Board of Trustees, administration, and faculty. These goals are in concert with four-year colleges, universities, and reflect input from the professional communities we serve. GEOs guarantee students achieve goals necessary for graduation credit, transferability, and professional skills needed in many certification programs. The GEO and course objectives addressed in this class include:

- GEO 4 – Demonstrate scientific reasoning
 - Interpret and apply scientific concepts and processes to guide decision-making and form an ability to identify scientifically valid information
 - Addressed through course objectives 2, 3, 4, 5, 6, 7 and 8

In addition to the GEOs, the college is committed to helping students develop three Essential Competencies. These skills are embedded in each program of study, and are shaped by the program focus and the pathway within which the program is hosted. These include:

- EC1 – Thinking critically and act responsibly
- EC2 – Work productively with others, recognizing individual contributions to group success
- EC3 – Exhibit technological literacy

Course materials:

Text: Introduction to public health by Mary-Jane Schneider.

How to Succeed in this course:

--Plan to spend at minimum 6-8 hours a week reading the text and reviewing other provided material. Each section of the course will contain several chapters to read along with lectures and handouts.

Assessment:

Your grade in the course will be based on:

Discussion/class participation (25% of overall grade)

Each class meeting we will have several questions that you will answer and discuss with the group. You will be graded on your answers to the questions and your participation in class.

Case study/Homework assignments- (20% of overall grade)

Most class meetings we will have a case study and/or homework assignment that are used as an example to highlight important aspects of your readings in the text.

End of module quiz- (40% of overall grade)

After each of the 6 modules we will have a quiz, featuring a mix of multiple choice, short answer and longer answer questions. This quiz will be timed and assess your understanding of the material that we have covered. Questions for the quiz will come from assigned readings in the text and lecture material. Any activities included in the material are also fair game to be included on the quiz.

Writing assignments- (15% of overall grade)

There will be several writing assignments throughout the course that will need to be completed. Specific requirements will be provided once class has begun.

Grades will be assigned according to the following scale:

90 to 100 %	4.0
85 to 89 %	3.5
80 to 84 %	3.0
75 to 79 %	2.5
70 to 74 %	2.0
65 to 69 %	1.5
60 to 64 %	1.0
0 to 59 %	0.0

Incompletes

Consistent with JC Policy, an incomplete grade will only be issued if the student has completed the vast majority of the course, is already passing the course after the withdraw deadline, and is unable to complete the course due to an extenuating circumstances. If an incomplete is issued, all grades/scores earned to that date will be used in calculating the course grade.

Ethics Policy

Consistent with JC Policy, academic dishonesty such as cheating, plagiarism etc. will not be tolerated. A first offense of academic dishonesty will result in a zero grade for the experience. A second offense will result in a zero for the course. All cases of academic dishonesty will be documented and forwarded to the Academic Dean. Students involved in disruptive behavior or dishonest scholarly practices will be dealt with in accordance to the student handbook. The full policy is available at <http://www.jccmi.edu/policies/Academics/Policies/1004.pdf>

Student behavior that is detrimental to an environment conducive to learning or maintenance of a reasonable level of order in our classroom shall be considered disruptive conduct. In addition, academic dishonesty includes but is not necessarily limited to taking, using, or copying another's work and submitting it as one's own, using notes on tests or quizzes, intentionally falsifying information or taking another's ideas with the intention of passing of ideas in class as one's own. Please note that all student writings and exam responses may be submitted to turnitin.com to allow for a check of originality and plagiarism.

Available Assistance

If you have documented disability, make sure that you make me aware ASAP so that suitable arrangements may be made. If you are experiencing difficulties with any aspect of this course, it is best if you consult the instructor.

Syllabus Revisions/Changes

All schedules and policies contained in this document are tentative and are subject to revision at the instructor's discretion with timely notice.

Course Outline

The course will be divided into 6 modules; each will take 1-2 weeks. Details on what is covered and the dates for each module are outlined below.

Date	Module	Topic	Reading	Quiz
Feb. 10	1	Introduction to public health	None	None
Feb. 17	1	Introduction to public health	Prologue, Ch. 1-3	Module 1
Feb. 24	2	Epidemiology	Chapters 4-5	None
Mar. 10	2	Data in public health	Chapters 6-8	Module 2
Mar. 17	3	Infectious diseases	Chapter 9-10	None
Mar. 24	3	Non-infectious diseases	Chapter 11	Module 3
Mar. 31	4	Genetics	Chapter 12	None
Apr. 7	4	Human behavior	Chapter 13-14	Module 4
Apr. 14	5	Threats to public health	Chapters 15-19	None
Apr. 21	5	Environmental Public health issues	Chapters 20-25	Module 5
Apr. 28	6	Medical care and public health	Chapters 26-30	None
May. 5	6	The future of public health	Chapters 31	Module 6