

**MIDSTATE COLLEGE**  
**411 W. Northmoor Rd. Peoria, IL 61614**  
**(309) 692-4092 (800) 251-4299**  
**Fall 2007**

<b>Course Number and Name:</b>	BIO 300 Microbiology
<b>Method of Delivery:</b>	Classroom
<b>Credit Hours:</b>	4
<b>Course Description:</b>	Introduction to the world of microbes. Study will include the physiology, ecology, and the identification of microorganisms through a series of investigations. The fundamentals of pathogenic viruses, bacteria and fungi; morphology, virulence, diagnosis and chemotherapy will also be studied.
<b>Prerequisite:</b>	None
<b>Text(s) &amp; Manual(s):</b>	Microbiology for the Health Sciences
<b>Author(s):</b>	Paul G. Engelkirk Gwendolyn R.W. Burton
<b>Publisher:</b>	Lippincott Williams & Wilkins
<b>Edition:</b>	eighth edition, 2007
<b>ISBN#</b>	0-7817-7195-1
<b>Materials Needed:</b>	Colored markers Flash cards
<b>Topics:</b>	<ol style="list-style-type: none"><li>1. Introduction to microorganisms</li><li>2. Chemical and genetic aspects of microorganisms</li><li>3. Growth and development of microbes</li><li>4. Microbes in our environment</li><li>5. Nosocomial infections and infection control</li><li>6. Pathogenicity and host defense mechanisms</li><li>7. Infectious diseases</li></ol>
<b>Learning Objectives:</b>	Upon completion of this class, a student will be able to: <ol style="list-style-type: none"><li>1. Identify and differentiate between prokaryotes and eukaryotes.</li><li>2. Compare and contrast virus and bacteria.</li><li>3. Compare and contrast algae, protozoa, and fungi.</li><li>4. Explain the role of ATP in metabolism and DNA in reproduction.</li></ol>

5. Understand the factors that control microbial growth in the lab, the human body and the environment.
6. Identify the role of the public health department with microbes.
7. Understand the role of microbes in illness and the threat of biological warfare.

<b>Midstate Grading Scale:</b>	90-100	A
	80-89	B
	70-79	C
	60-69	D
	0-59	F

**Midstate Plagiarism Policy:** Matters related to academic honesty or contrary action such as cheating, plagiarism, or giving unauthorized help on examinations or assignments may result in an instructor giving a student a failing grade for that academic effort and also recommending the student be given a failing grade for the course and/or be subject to dismissal.

Plagiarism is using another person's words without giving credit to the author. Original speeches, publications, and artistic creations are sources for research. If you use the author's words in your papers or assignments, you must acknowledge the source. Plagiarism is strictly against the academic policy of the college and is grounds for failing the course. If repeated, plagiarism may result in suspension from the college.

**Instructor Information:** Sandra Holm  
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**Participation Requirements:**

1. **Attendance is expected, not suggested.** Excessive absence will hurt your performance and ability to pass this class. Excessive absence is 2 or more classes. If for some reason you are not able to attend class, please e-mail the instructor or call Midstate and leave a message for the instructor.
2. Students are expected to be on time. If a student must arrive late or leave during class, do so quietly and as unobtrusively as possible.

**Policies and Procedures:**

1. All work is to be completed on time unless unusual circumstances occur. A student will have one week maximum to complete missed assignments or tests.
2. If a student misses class, the student is expected to use the course outline to determine what was missed. Class notes, assignments and tests will be placed in the library to collect during the week after the missed class. Students will have 1 week to complete the missed work without incurring a penalty. The grade will be recorded as 0% after the 7 day grace period.
3. Missed tests will be proctored by library personnel in the library.
4. If students are late for class or leave early, the attendance/participation grade will be reduced by half.
5. **Academic dishonesty is never tolerated and will be referred to the dean.**
6. All assignments must be hand written using black/blue ink, unless otherwise specified by the instructor. Work should be portfolio quality. Ragged edged paper is not acceptable.
7. All projects must be typed and use appropriate citation notations.
8. Please make certain your cell phone is on "vibrate". Calls can only be returned during the break. No text messaging will be allowed during class. Phones must be turned off during testing.

**Methods of Evaluating Student Performance:**

Attendance/Participation (10 x 5 points)	50 points
Homework (15 x 10 points)	150 points
Projects (2)	150 points
Chapter Tests	500 points
Final Exam	150 points
Total	1000 points



