The following are guidelines that the students should adhere to at all times to obtain maximum benefit from the laboratory and lecture sessions.

**Attendance:**

Students should try to attend all lectures sessions promptly. If for any reasons you cannot attend a class, or will be late you should call and leave a message at the faculty's extension and state the nature of the circumstance.

There are no make-up exams for students who miss an exam without a legitimate reason.

**Academic Misconduct:**

Cheating in any form will not be tolerated and will be dealt with to the fullest extent. Students who cheat on examinations, quizzes or share homework assignments will be penalized.

**Grading Criteria:**

There will be a total of four examinations, of which the average of the best two examinations and the final examination will be used to determine the final grade. Criteria for letter grades are indicated below:

- A  90-100%
- B  80-89%
- C  70-79%
- D  60-69%
- F  <60%

**Assignments:**

Assignments could be required for success in this course and if this is case, should be handed in on the due dates. Points will be deducted from assignments that are late.
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Course Description:
This course will provide an overview of the fundamental concepts and theories of general microbiology and provide insights of the relationship between man and microbes. Topics to be covered will include growth and classification, nomenclature, principles of diseases, Epidemiology and pathogenesis of infection with emphasis on health –related applications.

Course Competences:
By the end of the session the students should be able to:
1. Classify most of the organisms included in the subject area.

2. Discuss the place of microbiology in the biological sciences, and explain its importance in the fields of the health sciences.

3. Describe or explain the contribution made by certain scientists, for example, Leeuwenhoek, Pasteur, Koch, Lister, and Jenner.

4. Classify organisms into taxonomic categories.

5. Describe the physical and biochemical characteristics of some
microbes such as their morphology and Gram stain, metabolism and growth.

6. Discuss the principles of microbial control by describing how antimicrobial agents get against cell walls, cytoplasmic membrane, proteins, etc., for example, coagulation of protein and inhibition of enzymes.

7. Discuss the practical application of the principles of microbial control such as sterilization, disinfections and chemotherapy.

8. Describe the processes of transmission of infection and diseases and explain terms such communicability, carriers and vectors.

9. Explain such factors as virulence, infective dose, and portal of entry and host resistance.

10. Explaining such processes as active and passive immunity, specific and non- specific resistance, antigen antibody reactions and hypersensitivity.

11. Discuss the control of infectious diseases and Nosocomial Infections.

12. Discuss the causative agents of most of the commonly encountered infections such as Chlamydia, gonorrhea, amoebic dysentery, syphilis, gastrointestinal infections the microbes and the specific diseases they produce.

13. Explain how they are transmitted, their diagnosis and clinical course, their immunology, the therapy that could be used, and how they are prevented.
MDC Kendall Campus Institutional Values Statement

The Kendall Campus of Miami Dade College is an Academic Community committed to the values of Intellectual Integrity, Respect for Diversity, Environmental Stewardship, Social Responsibility, and Informed Participation in Civic Life.

MDC Kendall Campus Student Ethics Code

12.2.05

Devised by student in the Student Ethics Association along with the directors of the Miami Center for Ethical Awareness.

I pledge to seek truth and to critically examine the ideas that are presented to me. I pledge not to give or receive unauthorized aid in examinations, or in reports, or in any other work that is used as a basis for grading. I pledge to respect diversity in people’s beliefs, words, and actions. I pledge to live an environmentally conscientious lifestyle. I pledge to be mindful of the condition of society and to actively participate in movements for social progress. I pledge to be informed about current events, to be knowledgeable of world politics, and to participate in the democratic process. Finally, I pledge to encourage others to uphold the values expressed in this Ethics Code.