



Universidad de Puerto Rico  
Recinto Universitario de Mayagüez  
Colegio de Artes y Ciencias  
Departamento de Biología  
Programa de Biología, Pre-médica, Microbiología Industrial



## Official Syllabus

### Microbiology BIOL 3725

<b>Credit hours:</b> 4	<b>Contact hours:</b> 3 hours of conference and one three-hour of laboratory
<b>Prerequisites:</b> None	<b>Corequisites:</b> This course is prerequisite for Enfe 4001
<b>Course description in Spanish:</b> Se estudian los principios básicos de la microbiología centrándolos en los microorganismos relacionados con la salud y las enfermedades de los seres humanos.	
<b>Course description in English:</b> A survey of the basic principle of microbiology with emphasis on the study of microorganisms in relation to human health and disease.	
<b>Objectives:</b> The student will be able to state the microbiological principles on which professional practice based, describe the basic characteristics and behavior of microorganisms, describe several host-parasite interactions that result in infection and/ or infection disease, describe immunological responses that are protective, differentiate between asepsis, sterilization, disinfection, and know how to apply these terms, describe the principles of epidemiology as they apply to the course of infections in human and animal populations, describe general methods for the prevention and control of infectious disease transmission and briefly describe the epidemiology of at least two diseases in each major transmission route category-i.e., respiratory, gastrointestinal, skin, mucosa, and parental.	

#### Outline of content:

<b>Topics to be covered</b>	<b>Contact hours</b>
Basic Principle of Microbiology	5
The five kingdoms	4
The prokaryotes and viruses	4
The eucariotes	4
Microbial life	4
Tools and techniques in Microbiology	3
Character of Microbial diseases	3
Epidemiology and infection control	2
Microbial diseases	2
<b>Total hours: (should be equivalent to the contact hours of the course)</b>	<b>31</b>

**Instructional strategies:**

- lecture    discussion    computation    laboratory  
seminar with formal presentation    seminar without formal presentation    workshop  
art workshop    practicum    trip    thesis    special problemas    tutorial  
research    other (specify):

**Minimal resources available:**

General Library and University Computer Center is available to obtain professor's reference materials.

**Evaluation strategies and their relative weight:**

	Percentage
<input checked="" type="checkbox"/> written exams	100
<input type="checkbox"/> oral reports	
<input type="checkbox"/> monographs	
<input type="checkbox"/> portfolio	
<input type="checkbox"/> reflexive diary	
<input type="checkbox"/> other (specify):	
<b>TOTAL: 100%</b>	<b>100</b>

**Grading system:**

- quantifiable (letter grade)     not quantifiable

**References:**

Carmona, O. et al. (1988) Microbiología Médica de Divo. 5ta. Ed. McGraw Hill  
 Morello, J. et al. (1995) Microbiology in patient care. 5ta. Ed. WCB  
 Nester, E. et al. (1995) Microbiology in human perspective. WCB  
 Last revision.

Después de identificarse con el profesor y la institución, los estudiantes con impedimento recibirán acomodo razonable en sus cursos y evaluaciones. Para más información comuníquese con Servicios a Estudiantes con Impedimentos en la Ofician del Decano de Estudiantes (Q-019), 787-265-3862 ó 787-832-4040 x 3250 ó 3258.

**Attachments included:**

- Yes      
 No