

# Department of Microbiology and Immunology

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The Department of Microbiology and Immunology offers courses to medical laboratory technology (MLT), nursing, medical, and graduate students. It offers a graduate program leading to the MS degree in microbiology and immunology. It is also one of the departments in the Faculty of Medicine that is actively involved in the PhD program in basic medical sciences. The requirements for admission to the graduate program are stated on page 531, 532 and in the Graduate Studies section at the end of this catalogue.

**MBIM 223 Parasitology for MLT Students 39.39; 4 cr.**  
*Second semester.*

**MBIM 227 Microbiology and Immunology for Medicine II 108.72; 9 cr.**  
A course on the fundamental aspects of basic and medical microbiology and immunology presented in four separate but interrelated divisions: immunology, bacteriology, parasitology-mycology, and virology. *First semester.*

**MBIM 237 Microbiology and Immunology for Nursing Degree Students 32.64; 3 cr.**  
Fundamental aspects of medical microbiology and immunology for nursing students. *Second semester.*

**MBIM 260 Elective in Infectious Diseases for Medicine III and IV 0.180.**  
Basic evaluation, diagnosis, and management of infectious diseases. *One month.*

**MBIM 261 Elective in Immunology for Medicine III and IV 0.180.**  
An introduction to immunological research and its application to clinical practice. *One month.*

**MBIM 310 Basic Immunology 32.32; 3 cr.**  
Innate and adaptive immune mechanisms, infection and immunity, vaccination, immune mechanisms in tissue injury, therapeutic immunology. *Second semester.*

**MBIM 311 Bacteriology 32.32; 3 cr.**  
Characteristics and classification of medically important bacteria, diseases caused by bacteria, anti-bacterial agents, susceptibility testing, prophylaxis, and therapy. *Second semester.*

**MBIM 312 Parasitology-Mycology 16.32; 2 cr.**  
Characteristics of medically important parasites and fungi, diseases caused by parasites and fungi, anti-parasitic and anti-fungal agents, prophylaxis, and therapy. *Second semester.*

**MBIM 313 Virology 16.32; 2 cr.**  
Characteristics and classification of medically important viruses, diseases caused by viruses, anti-viral agents, prophylaxis, and therapy. *Second semester.*

<b>MBIM 314</b>	<b>Tutorial in Immunology</b>	<b>32.0; 2 cr.</b>
<b>MBIM 315</b>	<b>Tutorial in Bacteriology</b>	<b>32.0; 2 cr.</b>
<b>MBIM 316</b>	<b>Tutorial in Virology</b>	<b>32.0; 2 cr.</b>
<b>MBIM 317</b>	<b>Tutorial in Parasitology-Mycology</b>	<b>32.0; 2 cr.</b>
<b>MBIM 326</b>	<b>Applied and Advanced Immunology</b>	<b>32.64; 3 cr.</b>
Immunological diseases and their laboratory diagnosis. <i>Prerequisite: MBIM 301 or MBIM 310. Second semester. Alternate years.</i>		
<b>MBIM 327</b>	<b>Applied and Advanced Medical Bacteriology</b>	<b>32.64; 3 cr.</b>
The epidemiology, pathogenesis, immune response, diagnosis, and prevention of bacterial infections. <i>Second semester. Alternate years.</i>		
<b>MBIM 328</b>	<b>Applied and Advanced Parasitology</b>	<b>32.64; 3 cr.</b>
A treatise on epidemiology, pathogenesis, immune response, diagnosis, and prevention of parasitic infections. <i>Second semester. Alternate years.</i>		
<b>MBIM 329</b>	<b>Applied and Advanced Virology</b>	<b>32.64; 3 cr.</b>
A treatise on epidemiology, pathogenesis, immune response, diagnosis, and prevention of viral infections. <i>Second semester. Alternate years.</i>		
<b>MBIM 330</b>	<b>Molecular Microbiology</b>	<b>32.64; 3 cr.</b>
Molecular applications on the identification of infectious agents. <i>Second semester. Alternate years.</i>		
<b>MBIM 331</b>	<b>Infection Control</b>	<b>16.0; 1 cr.</b>
A treatise on the prevention of infections in the laboratory. <i>Second semester.</i>		
<b>MBIM 390</b>	<b>Seminar</b>	<b>0.32; 1 cr.</b>
<i>Yearly.</i>		
<b>MBIM 394</b>	<b>Journal Club</b>	<b>0 cr.</b>
<i>Yearly.</i>		
<b>MBIM 399</b>	<b>MS Thesis</b>	<b>9 cr.</b>