

# 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. The requirements for admission to the graduate program are stated on pages 32–46 of this catalogue.

<b>MBIM 223</b>	<b>Parasitology for MLT Students</b>	<b>39.39; 4 cr.</b>
<i>Second semester.</i>		
<b>MBIM 227</b>	<b>Microbiology and Immunology for Medicine II</b>	<b>108.72; 9 cr.</b>
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. <i>First semester.</i>		
<b>MBIM 237</b>	<b>Microbiology and Immunology for Nursing Degree Students</b>	<b>32.64; 3 cr.</b>
Fundamental aspects of medical microbiology and immunology for nursing students. <i>Second semester.</i>		
<b>MBIM 260</b>	<b>Elective in Infectious Diseases for Medicine III and IV</b>	<b>0.180.</b>
Basic evaluation, diagnosis, and management of infectious diseases. <i>One month.</i>		
<b>MBIM 261</b>	<b>Elective in Immunology for Medicine III and IV</b>	<b>0.180.</b>
An introduction to immunological research and its application to clinical practice. <i>One month.</i>		
<b>MBIM 310</b>	<b>Basic Immunology</b>	<b>32.32; 3 cr.</b>
Innate and adaptive immune mechanisms, infection and immunity, vaccination, immune mechanisms in tissue injury, therapeutic immunology. <i>Second semester.</i>		
<b>MBIM 311</b>	<b>Bacteriology</b>	<b>32.32; 3 cr.</b>
Characteristics and classification of medically important bacteria, diseases caused by bacteria, anti-bacterial agents, susceptibility testing, prophylaxis, and therapy. <i>Second semester.</i>		

<b>MBIM 312</b>	<b>Parasitology-Mycology</b>	<b>16.32; 2 cr.</b>
Characteristics of medically important parasites and fungi, diseases caused by parasites and fungi, anti-parasitic and anti-fungal agents, prophylaxis, and therapy. <i>Second semester.</i>		
<b>MBIM 313</b>	<b>Virology</b>	<b>16.32; 2 cr.</b>
Characteristics and classification of medically important viruses, diseases caused by viruses, anti-viral agents, prophylaxis, and therapy. <i>Second semester.</i>		
<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>