

## DEPARTMENT OF MICROBIOLOGY AND MEDICAL ZOOLOGY

### MASTER OF SCIENCE WITH SPECIALTY IN MICROBIOLOGY (M.S.) CURRICULUM

Total Semester Credit-Hours: 33

#### First Year: 21 Credit-Hours

MICR 8499	Introduction to Medical Microbiology	6
BCHM 8511	Biochemistry I: Structure, Function, Processes, and Reactions	3
BCHM 8512	Biochemistry II: Understanding the Human Genome and its Implications	3
MICR 8540	Principles of Immunology	3
MICR 8496	Introduction to Research	1
Electives	Two Department Courses	5

#### Second Year: 12 Credit-Hours

MICR 8596	Preparation of Thesis Proposal in Microbiology	1
CBIO 8500	Statistics for the Biomedical Sciences	3
MICR 8590	Teaching Practice	1
MICR 8580	Graduate Seminar	1
MICR 8595	Master's Thesis	6

### DOCTOR OF PHILOSOPHY WITH SPECIALTY IN MICROBIOLOGY (PH.D.) CURRICULUM

Total Semester Credit-Hours: 61

#### First Year: 22 Credit-Hours

MICR 8499	Introduction to Medical Microbiology	6
BCHM 8511	Biochemistry I: Structure, Function, Processes, and Reactions	3
BCHM 8512	Biochemistry II: Understanding the Human Genome and its Implications	3
MICR 8580	Graduate Seminar	1
MICR 8540	Principles of Immunology	3
MICR 8496	Introduction to Research	1
Electives	Two Department Courses	5

#### Second Year: 17 Credit-Hours

CBIO 8500	Statistics for the Biomedical Sciences	3
MICR 8580	Graduate Seminar	1
MICR 8590	Teaching Practice	1
	Advanced Topics in Area of Specialization	6
Electives	Two Department Courses	6

#### Third and Fourth Year: 22 Credit-Hours

MICR 8596	Preparation of Thesis Proposal in Microbiology	1
MICR 8590	Graduate Seminar	1
	Advanced Topics in Area of Specialization	5
MICR 8599	Doctoral Dissertation	15