Appendix 2. Curriculum for Ph.D. in Microbiology

Course Title	Course Number	Semester Credit Hours
CORE COURSES (12 SEMESTER HOURS)	<u>'</u>	
Scientific Communication	BIO 710	3
Microbial Genetics and Genomics	BIO 720	3
Microbial Physiology and Diversity	BIO 730	3
Environmental Microbiology	BIO 740	
OR		
Microbiology of Food Systems	BIO 741	3
OR		
Microbiology of Water Systems	BIO 742	
REQUIRED MAJOR SUPPORT COURSES (13 SEMESTER HOURS)		
Biochemistry	CHE 700	3
Biostatistics	BST 700	3
Laboratory Research Rotation	BIO 700	3
Microbial Risk Assessment	BIO 750	3
and Management		
Seminar in Microbiology	BIO 875	1
MAJOR ELECTIVE COURSES (12 SEMESTER HOURS)	DIO 704	
Advanced Microbiology	BIO 701	4
Applied Microbiology	BIO 702	4
Virology Malagular Caratics	BIO 703	4
Molecular Genetics	BIO 704 CHE 705	4
Environmental Chemistry	1	3
Microbial Ecology	BIO 805	3
Microbial Pathogenesis	BIO 815	3
Microbiology of Food Sanitation	BIO 825	3
Microbial Water Quality Microbial Bioterrorism and Safety	BIO 835 BIO 845	3
Microbial Biotechnology	BIO 855	3
Special Topics in Food and Water Microbiology	BIO 865.01	Repeatable for Up to
	BIO865.02	3
Special Topics in Environmental Microbiology REQUIRED DOCTORAL RESEARCH AND DISSERTATION	טוטסטט.טב	
Doctoral Research	BIO 799	Variable
Doctoral Dissertation	BIO 899	3
Doctoral Dissortation	PIO 000	
M.S. Poquiromonto		
M.S. Requirements	DIO 547	
Cell and Molecular Biology	BIO 517	4
Biological Tecniques & Instrm. Molecular Genetics	BIO 521	4
Molecular Genetics (Elective)	BIO 619	4
(Elective)	BIO	<u> </u>