

**B.S. IN MICROBIOLOGY CURRICULUM – 124 HOURS
(B.S.-LEVEL POSITION, PRE-PROFESSIONAL, GRADUATE, AND MINOR¹ TRACKS)**

Student: _____ Date: _____

Student ID: _____ Career Goal (track): B.S.-level position
 Pre-professional (specify: _____)

Transfer hours accepted (if any): _____
 Graduate (specify: _____)

Microbiology Requirements	Hrs.	Grade	University Requirements⁴	Hrs.	Grade
BIO 3304 General Microbiology	4	___	EN 1103 English Comp. I	3	___
BIO 4405 Pathogenic Microbiology	5	___	EN 1113 English Comp. II	3	___
BIO 4413 Immunology	3	___	Literature elective	3	___
BIO 4433 Virology	3	___	Fine Arts elective	3	___
BIO 4443 Bacterial Genetics	3	___	FL 1113	3	___
BIO 4442 Bacterial Genetics Lab	2	___	FL 1123	3	___
BIO 4463 Bacterial Physiology	3	___	HI elective	3	___
Microbiology Electives (8 hrs) ²			CO 1003 Intro. Public Speaking	3	___
_____	___	___	Social Science elective ⁵	3	___
_____	___	___	Social Science elective ⁵	3	___
_____	___	___			
			Scientific Writing/Computer Literacy		
Departmental Core			BIO 3013	3	___
BIO 1134 Biology I*	3	___			
BIO 1144 Biology II*	3	___	Math and Statistics Requirements		
BIO 2103 Cell Biology	3	___	Math 1713 Calculus I	3	___
			ST 3123 Intro. Statistical Inference	3	___
Other Dept. Requirements					
CH 1213 Fundamentals of Chemistry	3	___	General Electives⁷	16 or 19	
CH 1223 Fundamentals of Chemistry	3	___	_____	___	___
CH 1211 Laboratory	1	___	_____	___	___
CH 1221 Laboratory	1	___	_____	___	___
CH 4513 Organic Chemistry	3	___	_____	___	___
CH 4523 Organic Chemistry	3	___	_____	___	___
CH 4511 Laboratory	1	___	_____	___	___
CH 4521 Laboratory	1	___	_____	___	___
PH 1113	3	___			
PH 1123 or 1133	3	___			
BCH 3613 Elem. Biochemistry ³	3	___			
or					
BCH 4603/4613 Gen. Biochemistry ³	6	___			

¹Students desiring a minor must take General Microbiology, Bacterial Cultivation, Pathogenic Microbiology, and elective microbiology courses to total no less than 19 hours of microbiology coursework.

²Applied microbiology courses are strongly recommended, regardless of the Department in which they are offered (for example, Food Microbiology, Environmental Microbiology, or Soil Microbiology). Upper division courses in MDT or BCH are also acceptable. BIO 2004 (Human Anatomy), BIO 2014 (Human Physiology), BIO 3504 (Comparative Anatomy), BIO 4133 (Human Genetics), and BIO 4502 (Toxicology) are acceptable. Hours in excess of 8 will reduce the general electives requirement by an equal number.

³Students on the pre-professional/graduate track are required to take BCH 4603/4613 and 17 hours of general electives; students on the B.S.-level position track may substitute BCH 3613 and 20 hours of general electives.

⁴All courses taken to satisfy these requirements must be on the list of core courses approved by the College of Arts and Sciences.

⁵ANT, ECO, GR, PS, PSY, SO; no more than 3 semester hours in one discipline.

⁶TKT 1273 or other approved CS courses may be substituted. See list of core courses approved by College of Arts and Sciences.

⁷Students planning to attend professional schools should check with the faculty advisor for that program to identify additional courses that may be needed. Such courses can be taken for general elective credit.