BS Microbiology Biomedical Option Roadmap

Fall Semester - Freshman		
BIOL 1004	Biology Orientation Seminar	1
BIOL 1105	Principles of Biology I	3
BIOL 1115	Principles of Biology LAB	1
CHEM 1035	General Chemistry I	3
CHEM 1045	General Chemistry LAB	1
ENGL 1105	First Year Writing I	3
MATH 1025	Elementary Calculus I	3
	Total	**15**

Spring Semester - Freshman		
BIOL 1106	Principles of Biology II	3
BIOL 1116	Principles of Biology LAB	1
CHEM 1036	General Chemistry II	3
CHEM 1046	General Chemistry LAB	1
ENGL 1106	First Year Writing II	3
MATH 1026	Elementary Calculus II	3
	Total	**14**

Fall Semester - Sophomore		
CHEM 2535	Organic Chemistry I	3
CHEM 2545	Organic Chemistry LAB	1
BIOL 2004	Genetics	3
BIOL 2604	General Microbiology	3
BIOL 2614	General Microbiology LAB	2
Pathways	Critical Thinking in Humanities	3
	Total	**15**

Spring Semester - Sophomore		
CHEM 2536	Organic Chemistry II	3
CHEM 2546	Organic Chemistry LAB	1
BIOL 2134	Cell Function Differentiation	3
STAT 3615	Biological Statistics	3
Pathways	Crit & Pract in Des & Arts	3
Pathways	Reasoning in Social Sciences	3
	Total	**16**

Fall Semester - Junior		
PHSY 2205	General Physics I	3
PHYS 2215	General Physics LAB	1
BIOL 3764	Careers in Microbiology	3
BCHM 3114	Biochem for Biotech/Life Science	3
BIOL 3774	Molecular Biology	3
Pathways	Critical Thinking in Humanities	3
	Total	**16**

Spring Semester - Junior		
BIOL 3104	Cell & Molecular Bio LAB	1
BIOL 4634	Microbial Physiology	3
PHYS 2206	General Physics II	3
PHYS 2216	General Physics LAB	3
Pathways	Advanced Discourse	3
Pathways	Reasoning in Social Sciences	3
	Total	**16**

Fall Semester - Senior		
BIOL 4624	Microbial Genetics	3
BIOL 4674	Pathogenic Bacteriology	3
BIOL 4724	Pathogenic Bacteriology LAB	2
BIOL (MICB)	Elective Course without Lab	3
Pathways	Identity & Equity in the US	3
	Total	**14**

Spring Semester - Senior		
BIOL 4704	Immunology	3
BIOL (MICB)	Elective Course with Lab	4
BIOL (MICB	Elective Course with lab	4
Pathways	Crit & Pract in Design & Arts	3
	Free Elective	2
	Total	**16**