

COLLEGE OF SCIENCE – MICROBIOLOGY MAJOR

A minimum of 40 CREDITS must be earned from within BSC; Independent study BSC 485 – 488 does **NOT** count toward this requirement. BSC 227, 228 & 250 do **NOT** count toward this major. *Course offerings are subject to change semesters. Consult each semester's schedule of courses for availability.*

A 2.0 GPA in your major is required for graduation.

COMPLETED MAJOR SPECIFIC REQUIREMENTS

<i>Required Courses</i>	<i>Sem</i>	<i>Hrs</i>	<i>Grade</i>	<i>Required Courses</i>	<i>Sem</i>	<i>Hrs</i>	<i>Grade</i>	
BSC 120 Principles I	F&S	4	_____	*BSC/CHM 365 Biochem	F	3	_____	
BSC 121 Principles II	F&S	4	_____	*Prereq CHM 356				
BSC 302 Princ. Micro.	F&S	3	_____	BSC 443 Microbial Genetics	F	3	_____	
BSC 304 Micro Lab	F&S	2	_____	BSC 491 Capstone	All	2	_____	
BSC 324 Genetics	All	4	_____					Total 25 Hours

Choose 1 from the 2 Required Core Courses listed below

BSC 320 Ecology	All	4	_____	BSC 322 Cell	All	4	_____	Total 29 Hours
-----------------	-----	---	-------	--------------	-----	---	-------	-----------------------

Required by Major Electives – Choose at least 11 hours

BSC 417 Biostatistics	F&S	3	_____	BSC 446 Microbial Lab	S	2	_____
BSC 418 Mycology	F	4	_____	BSC 448 Intro. Immunology	S	3	_____
BSC 424 Animal Paras	S	4	_____	BSC 481 DNA Clon.	S	2	_____
BSC 438 E. Infect Disease	S	4	_____	BSC 483 Inter Biochem	S	3	_____
BSC 440 Medical Micro		3	_____	Fourth Core Course (BSC 320 or 322)		4	_____
BSC 445 Microbial Ecology	S	3	_____	Special Topics Permission			_____

Total Major Elective Hours _____

Total Biology Hours must be at least 40 hours

COMPLETED – CHEMISTRY (Completion with a C average of the listed Chemistry courses provides a minor.)

CHM 211 Chem I (Pre-reqs: ACT 23 or higher OR CHM 111 with C or better) & 217, Lab	3, 2	_____	_____
CHM 212 Chem II (Pre-reqs: C or better in CHM 211) & 218, Lab	3, 2	_____	_____
CHM 355 Organic I (Pre-reqs: C or better in CHM 212)	3	_____	_____
CHM 356 Organic II (Pre-reqs: C or better in CHM 355)	3	_____	_____
CHM 361 Organic Lab	3	_____	_____

COMPLETED – PHYSICS (Pre-reqs. ACT MTH 27 or higher, MTH 229, 132, **OR** 127/130/140 **AND** 122)

PHY 201 & 202, Gen Physics I & Lab	3 1	_____	_____	PHY 203 & 204 Gen Physics II & Lab	3 1	_____	_____
------------------------------------	-----	-------	-------	------------------------------------	-----	-------	-------

COMPLETED – MATHEMATICS (Depends on ACT/SAT math scores)

MTH 229 Calculus I *#	5	_____	OR	MTH 132 Pre-Calculus #	5	_____
-----------------------	---	-------	-----------	------------------------	---	-------

OR TWO of the following:

MTH 127/130 Algebra #	5/3	_____	_____	MTH 122 Trig #	3	_____
MTH 140 Applied Calculus *#	3	_____	_____	MTH 225 Statistics	3	_____

*Calculus is a COS Specific Requirement.

#MTH 229, 132, **OR** 127/130/140 **AND** 122 is prerequisite(s) for PHY 201.