

COLLEGE OF SCIENCE – CELL, MOLECULAR and MEDICAL BIOLOGY 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

Required Courses	Sem	Hrs	Grade	Required Courses	Sem	Hrs	Grade
BSC 120 Principles I	F&S	4	_____	BSC 322 Cell	F&S	4	_____
BSC 121 Principles II	F&S	3	_____	BSC 324 Genetics	F&S	4	_____
BSC 302 Microbiology	F&S	4	_____	BSC 491 Capstone	F&S	2	_____

Required by Major Courses – Choose at least 3 from the 4 below courses. These courses may not count twice.

**BSC/CHM 365 Biochem	F	3	_____	BSC 422 Animal Phys	F&S	4	_____
BSC 420 Plant Phys.	S	4	_____	BSC 450 Molecular Bio	F	3	_____

**Prerequisite for BSC 365 is CHM 356.

Total 31 – 32 Hours _____

Required by Major Electives – Choose 9 - 10 hours

BSC 301 Vert. Embryo.	F&S	4	_____	BSC 426 Medical Entomology	Sum	4	_____
BSC 304 Micro Lab	F&S	2	_____	BSC 442 Advanced Micro	F	4	_____
BSC 310 Comp Vert Anat	S	4	_____	BSC 450 Molec. Bio	F	3	_____
BSC 413 Organic Evolution	F	3	_____	BSC 452 Molec. Lab Tech.	F	3	_____
BSC 417 Biostatistics	F&S	3	_____	BSC 454 Adv. Mthds Molec.		3	_____
BSC 424 Animal Parasi.	S	3	_____	Fourth "required by major" Course		3-4	_____
BSC 448 Immunology		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	_____	_____
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COMPLETED – MATHEMATICS (Depends on ACT/SAT math scores)

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