





Physical Education (2)	General Elective
<b>AREA OF CONCENTRATION 50 CR.</b>	
BIO 104 Basic Laboratory Methods for Biotechnology (3)	General Elective* – see BIO 152 below
BIO 140 Principles of Biology I (4)	BIOL 1550/1551 Essentials of Biology I w/lab - also meets Physical & Natural World (PNW) Requirement
BIO 152 Quantitative Methods in Biology (2)	BIOL 1560/1561 Essentials of Biology II *This equivalency only holds if the student has completed both BIO 152 AND BIO 104 (listed above as a general elective)
BIO 218 Microbiology for Biotechnology (4)^	BIOL 3120/3121 Microbiology w/Lab^
BIO 219 Biotechnology I (5)^	BIOL 4000/4001 Methods in Molecular Biology w/Lab^
BIO 220 Biotechnology II (5)^	BIOL 3600 Topics in Biology^
BIO 221 Workplace Learning: Biotechnology (3)^	BIOL 4700 Independent Research in Biology I^
BIO 225 Genetics (5)	BIOL 3050, 3051 Genetics
BIO 226 Advanced Topics in Biotechnology (3) (choose one): Plant Transformation, Bio Processing, Forensics, QPCR Techniques, Proteomics, RNA Interference	BIOL 3080/3081 Cell Biology w/Lab
BIO 226 Advanced Topics in Biotechnology (3)^ (choose one): Plant Transformation, Bio Processing, Forensics, QPCR Techniques, Proteomics, RNA Interference	BIOL 3600 Topics in Biology^
CHM 105 General Chemistry I (5)	CHEM 1100/1101 General Chemistry I w/Lab
CHM 106 General Chemistry II (5)	CHEM 1110/1111 General chemistry II w/Lab
GE 101 Technical Computer Applications (3)	General Elective
<b>TOTAL FROM STLCC: 71 CR.</b>	

### BS BIOLOGICAL SCIENCES EMPHASIS IN RESEARCH & TECHNOLOGY (YEARS 3 AND 4 AT WEBSTER UNIVERSITY)

<b>Webster University</b>
<b>MAJOR</b>
BIOL 2010 Evolution (3)
BIOL 4400 Research Methods (3)
BIOL 4430 BS Senior Thesis (4)
CHEM 2100, 2101 Organic Chemistry I (4)
CHEM 2110, 2111 Organic Chemistry II (4)
CHEM 3100, 3101 Biochemistry I (4)
MATH 1610 Calculus I (5) (unless completed at STLCC)
MATH 3200 Statistics or MATH 3100 Inferential Statistics (3)
PHYS 2030, 2031 University Physics I (4)
PHYS 2040, 2041 University Physics II (4)
<b>EMPHASIS/MAJOR ELECTIVES:</b> Students with the AAS Biotechnology from STLCC have satisfied a majority of the electives specifically required for the Research & Technology emphasis. STLCC courses applying toward the emphasis are marked above with ^ symbol.
JOUR 3900 Journal Club (3)
<b>TOTAL REMAINING MAJOR: 41 CR.</b>

<b>GLOBAL CITIZENSHIP PROGRAM</b>	
FRSH 1200 First Year Seminar (3 cr.)	Satisfied by completion of the AAS degree at STLCC
ROC Roots of Cultures Knowledge (6 cr., 2 different prefixes)	Partially satisfied by STLCC HST requirement
SSHB Social Systems & Human Behavior (6 cr., 2 different prefixes)	Partially satisfied by STLCC SOC 101
PNW Physical & Natural World Knowledge (3 cr.)	Satisfied by STLCC BIO 140
GLBL Global Understanding Knowledge (3 cr.)	
ARTS Arts Appreciation Knowledge (3 cr.)	

