

B.S. in Biology Program Worksheet

BIOLOGY – LOWER LEVEL CORE CURRICULUM (62 hours)

Course Taken	Course	Course Title	Prerequisite(s)	Credits
<u>Area A – Essential Skills (9)</u>				
	ENGL 1101	English Composition I	ENGL 0098, unless exempt READ 0098, unless exempt	3
	ENGL 1102	English Composition II	ENGL 1101 with a grade of C or better	3
	MATH 1113*	Precalculus Mathematics	MATH 1111, or one year of high school math above Algebra II	3
*Math 2253 may be used if the student meets the prerequisites. The additional hour of credit will be applied to the upper level curriculum electives.				
<u>Area B – Institutional Options (4)</u>				
	COMM 1110	Fundamentals of Speech		3
	Area B Elective	Choose from courses listed		1
<u>Area C – Humanities/Fine Arts (6)</u>				
	Area C Electives	Choose from courses listed		6
<u>Area D – Science/Mathematics/Technology (12)</u>				
	MATH 2253	Calculus & Analytical Geometry I	MATH 1113	4
	CHEM 1211K	Principles of Chemistry I	MATH 1111 with a grade of C or above	4
	CHEM 1212K	Principles of Chemistry II	CHEM 1211K	4
<u>Area E – Social Sciences (12)</u>				
	HIST 2111 or 2112	United States History	READ 0098, unless exempt	3
	POLS 1101	American Government	READ 0098, unless exempt	3
	Area E Elective	Choose from courses listed		6
<u>Area F – Major Related (18)</u>				
	BIOL 1107K	Principles of Biology I	READ 0098, unless exempt	4
	BIOL 1108K	Principles of Biology II	BIOL 1107K	4
	CHEM 2211K	Organic Chemistry I	CHEM 1212K	4
	CHEM 2212K	Organic Chemistry II	CHEM 2211K	4
	BIOL 2270	Ethical Issues in Science	BIOL 1108K	2
<u>Physical Education (1)</u>				
	PHED	Activity Elective		1

AREA	ELECTIVE LIST
B	BIOL 1001, COMM 1120, ENGL 1105, 1110, HIST 1050, 1051, HUMN 1000, 1100, PHED 1030, SOCI 1000
C	ENGL 1201, 2111, 2112, 2120, 2121, 2130, 2131; HUMN 1201 or THEA 1100 or MUSC 1100
E	ANTH 1103, ECON 2105, 2106, GEOG 1100, 1101, 1111, HIST 1111, 1112, 2111, 2112, PHIL 1101, 1102, 1103, POLS 2101, 2201, 2301, 2401, PSYC 1101, 2101, 2103, 2204, 2250, SOCI 1101, 1160

UPPER LEVEL CORE CURRICULUM (58 - 59 hours)

Course Taken	Course	Course Title	Prerequisite(s)	Credits
	<u>REQUIRED (28)</u>			
	BIOL 3200K	Cellular Biology	BIOL 1108K, CHEM 1211K	4
	MATH 2200	Introduction to Statistics	MATH 1111	3
	BIOL 3500K	Ecology	BIOL 1108K, CHEM 1211K	4
	BIOL 4250	Evolution	BIOL 3400K, CHEM 1212K	3
	BIOL 3400K	Genetics	BIOL 3200K, CHEM 1212K, coreq CHEM 2211K	4
	BIOL 4000	Senior Seminar	19 hours 3000/4000 level BIOL courses	2
	PHYS 1111K	Introductory Physics I	MATH 1113	4
	PHYS 1112K	Introductory Physics II	PHYS 1111	4

Course Taken	<u>B.S BIOLOGY ELECTIVES (22-23 total) Must include at least one 4 credit biology course.</u>			
	BIOL 3300K	Developmental Biology	BIOL 3200K	4
	BIOL 3340K	General Microbiology	BIOL 1108K, CHEM 1211	4
	BIOL 3510K	Plant Biology	BIOL 1108K, CHEM 1211	4
	BIOL 3520K	Invertebrate Zoology	BIOL 1108K	4
	BIOL 3900	Readings in Biology	12 hours of Upper Level Biology	2
	BIOL 4360K	Comparative Anatomy and Physiology of Vertebrates	BIOL 1108K, CHEM 1211K	4
	BIOL 4410K	Molecular Biology	CHEM 2212K, BIOL 3400K	4
	BIOL 4500K	Biotechnology	BIOL 3400K	4
	BIOL 4900*	Special Topics in Biology	BIOL 3400K and 3 additional upper level Biology courses	3
	BIOL 4960	Research in Biology	16 hours of Upper Level Biology	1-4
	CHEM 3311K	Quantitative Analysis	CHEM 1212K, MATH 1113	4
	CHEM 3500	Biochemistry	CHEM 2211K	3
	CHEM 3700	Environmental Chemistry	CHEM 3311	4
	CHEM 4430	Advanced Organic Chemistry	CHEM 2212K	3
	MATH 2254	Calculus & Analytical Geometry II	MATH 2253	4
	<u>FREE ELECTIVES</u>			
	<u>Select 9 hours from any transfer credit courses in the college curriculum other than PHED courses</u>			

* BIOL 4900 Special Topics in Biology can be taken multiple times.