

# University of Missouri

## Bachelor of Science in Biology

### Transfer Guide for Crowder College

This plan is intended only as a general guide based on requirements in the 2013-2014 University of Missouri undergraduate catalog. You will need to complete a total of 120 hours in order to graduate. It will take roughly 90 to 110 credit hours to fulfill the requirements specific to the degrees offered in Biological Sciences. You may use elective courses to bring your total credit hours to 120.

At least 30 of the hours must be in courses at the 3000-level or higher. (Biology 2200 and 2300 and Chemistry 2100, 2110 and 2130 may be used to meet the 3000-level requirement.)

Check the following web sites for current course descriptions, prerequisites, course equivalencies and other specific details about the Biology major:

- 1) College Catalog (<http://registrar.missouri.edu>)
- 2) Transfer Equivalencies (<http://transfercourses.missouri.edu> or <http://transfer.org>)
- 3) General Education (<http://generaleducation.missouri.edu>)
- 4) Biological Sciences (<http://biology.missouri.edu/undergrad/>)

For more information about the Biological Sciences degree, please contact the Biology Advising Office at (573) 882-4068.

University of Missouri		Crowder College
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)
<b>College Algebra (3)</b>		
MATH 1100 College Algebra	3	MATH 111 College Algebra (3)
<b>Mathematical Sciences (5-6)</b>		
<b>Select one option:</b>		
MATH 1400 Calculus for Social/Natural Sciences <b>and</b> MATH 2100 Calculus for Social/Natural Sciences I	6	None
MATH 1500 Analytic Geometry and Calculus I	5	MATH 150 & 160 Calc I, Part I & II (5)
STAT 1400 Elem Stat for Life Sciences <b>and</b> CMP SC 1040 Intro to Problem Solving & Programming	6	None
<b>Chemistry (16 credits)</b>		
CHEM 1320 College Chemistry I	4	CHEM 111 Gen Chemistry I (5)
CHEM 1330 College Chemistry II	4	CHEM 112 Gen Chemistry II (5)
CHEM 2100 Organic Chemistry I	3	None
CHEM 2110 Organic Chemistry II	3	None
CHEM 2130 Organic Chemistry I Lab	2	None
<b>Physics (8-10 credits)</b>		
<b>Select one option:</b>		
PHYS 1210 College Physics I and Lab <b>and</b> PHYS 1220 College Physics II and Lab	8	None
PHYS 2750 University Physics I and Lab <b>and</b> PHYS 2760 University Physics II and Lab	10	PHYS 190 Gen Physics I (5) <b>and</b> PHYS 210 Gen Physics II (5)
<b>English Exposition and Argumentation (3 credits)</b>		
ENGLSH 1000 Exposition and Argumentation	3	ENGL 102 Adv English Comp (3) or ENGL 104 Honors English Comp (3)
<b>★Behavioral Sciences (5 credits)</b>		
Behavioral Science 1	3	Select <a href="#">behavioral sciences</a> from the general education list.
Behavioral Science 2	2-3	
<b>★Social Sciences (9 credits) Courses from at least two different departments.</b>		
State Requirement in Government or History	3	Select <a href="#">state requirement</a> from the general education list.
Social Science 2	3	Select <a href="#">social sciences</a> from the general education list.
Social Science 3	3	
<b>★Humanities/Fine Arts (12 credits) Courses from at least three different areas.</b>		
Humanity 1	3	Select <a href="#">humanities</a> from the general education list.
Humanity 2	3	
Humanity 3	3	
Humanity 4	3	
<b>Foreign Language (12-13 credits) Must be in the same language.</b> <i>Requirement is waived if level 4 of single foreign language was completed in high school.</i>		
Language 1	5	Select <a href="#">language courses</a> from the general education list.
Language 2	5	
Language 3	3	
<b>Upper Level General Education (9 credits) At least 9 credits of behavioral science, social science, or humanities must be at the 2000-level or above.</b>		
<input checked="" type="checkbox"/> Upper-level general education courses may also count toward other general education requirements (behavioral sciences, social sciences, or humanities).		

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COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)
✳️Upper Level 1	3	Select <a href="#">200-level/2000-level A&amp;S courses</a> from behavioral science, social science, or humanity on the general education list. Level is based upon the community college course number, NOT the MU equivalent.
✳️Upper Level 2	3	
Upper Level 3	3	
Writing Intensive (2 courses) Must be completed with a C- or better.		
✳️Writing Intensive course from anywhere in the curriculum	3	Must be taken at MU unless waived via completion of an AA degree.
Writing Intensive course numbered 3000 or above in biology	3	Must be taken at MU.
Biological Sciences (33 credits) At least 14 credits in Biology must be completed at the 3000-level or higher		
BIO SC 1500 Introduction to Biological Systems	5	BIOL 110 Zoology (5) and BIOL 120 General Botany (5)
BIO SC 2200 General Genetics	4	None
BIO SC 2300 Cell Biology	4	None
Evolutionary Biology (select one course) BIO SC 3400 Evolution and Ecology BIO SC 4600 Evolution	3	None
Biological Diversity (select one course) BIO SC 2600 Ornithology BIO SC 2700 Ichthyology MICROB 3200 - Medical Microbiology and Immunology BIO SC 3210 Plant Systematics BIO SC 3260 Invertebrate Zoology BIO SC 3510 Biology of Fungi BIO SC 3660 Mammalogy BIO SC 3710 & 3715 Intro Entomology/Insect Diversity	3-5	None
Capstone (select one course) BIO SC 4950/4952 Undergraduate Research in Biology BIO SC 4976 Molecular Biology BIO SC 4978 Cancer Biology BIO SC 4982 Human Inherited Diseases BIO SC 4983 Molecular Ecology BIO SC 4984 Mammalian Reproductive Biology BIO SC 4986 Neurology of Motor Systems BIO SC 4988 Nerve Cells and Behavior BIO SC 4990 Vertebrate Histology & Microscopic Anat BIO SC 4994 Senior Seminar	3-5	None
Biology Electives Bio Elective Credit (Physiology) Bio Elective Credit (Microbiology) Other Bio Elective Credit	7-11	BIOL 152 and 252 Anat and Physiol I & II (max credit of 5 hours) BIOL 220 Gen Microbiology (5)
Electives		
Choose electives to reach the total of 120 credits required for graduation.		
Total Hours for BS in Biological Sciences	120	

★Requirement is automatically satisfied upon the completion of an Associate of Arts (AA) degree.

# General Education Courses

## Crowder College

<u>Crowder College Course</u>	<u>MU Equivalent</u>	<u>Crowder College Course</u>	<u>MU Equivalent</u>
<b>Behavioral Sciences</b>		<b>Social Sciences (◆= State Requirement)</b>	
PSYC 101 Gen Psychology (3)	PSYCH 1000	ECON 201 Prin of Econ I (Macro) (3)	ECONOM 1015
PSYC 110 Psych of Pers Adj (3)	PSYCH BEH	ECON 202 Prin of Econ II (Micro) (3)	ECONOM 1014
PSYC 210 Child Psych (3)	PSYCH 2410	GEOG 101 Prin of Geography (3)	GEOG SSC
PSYC 215 Adolescent Psych (3)	PSYCH BEH	HIST 101 Western Civil I (3)	HIST 1500
SOC 101 Gen Sociology (3)	SOCIOL 1000	HIST 102 Western Civil II (3)	HIST 1510
SOC 103 Marriage & Family (3)	SOCIOL 3420	◆HIST 106 US History I (3)	HIST 1100
		◆HIST 107 US History II (3)	HIST 1200
		PLSC 102 MO Constitution (1)	POL_SC SSC
		◆PLSC 103 Nat, State, Local Govt (3)	POL_SC 1100
		◆PLSC 104 Nat, St, Local Govt Hnr (3)	POL_SC 1100
		PLSC 201 Cont Pol Act of US (2)	POL_SC SSC
		◆PLSC 205 Intro Political Sci (3)	POL_SC 1700
<b>Humanities</b>		<b>Foreign Language</b>	
ART 101 Art Appreciation (3)	ART_GNR1020	FREN 101 Begin French I (3)	FRENCH 1100A
COMM 101 Intro to Mass Comm (3)	COMMUN 2100	FREN 102 Begin French II (3)	FRENCH 1100B
ENGL 109 Intro to Literature (3)	ENGLSH LIT	FREN 201 Interm French I (3)	FRENCH 1200
ENGL 120 Masterpieces Wld Lit I (3)	ENGLSH LIT	FREN 202 Interm French II (3)	FRENCH 2100
ENGL 125 Masterpiece World Lit II (3)	ENGLSH LIT	SPAN 101 Begin Spanish I (3)	SPAN 1100A
HUM 102 Cultural Diversity (3)	MISC HUM	SPAN 102 Begin Spanish II (3)	SPAN 1100B
MUSC 101 Music Appreciation (3)	MUSIC_N1310	SPAN 105 Convers Span (3)	SPAN 1100A
PHIL 101 Intro Western Phil (3)	PHIL 1000	SPAN 106 Convers Span II (3)	SPAN 1100B
PHIL 121 World Religions (3)	REL_ST 2110	SPAN 201 Interm Spanish (3)	SPAN 1200
PHIL 201 Logic (3)	PHIL 1200	SPAN 202 Interm Spanish II (3)	SPAN 2100
PHIL 202 Ethics (3)	PHIL 1100		
SPAN 103 Intro Hispanic Culture (3)	SPAN HUM		
SPCH 101 Fund of Speech (3)	COMMUN 1200		
TA 105 Acting I (3)	THEATR 1400		
TA 205 Intro Theatre (3)	THEATR 1100		