

University of Missouri

Bachelor of Science in Biology

Transfer Guide for Three Rivers Community 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		Three Rivers Community College	
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)	
College Algebra (3)			
MATH 1100 College Algebra	3	MATH 163 College Algebra (3)	
Mathematical Sciences (5-6)			
<i>Select one option:</i>			
MATH 1400 Calculus for Social/Natural Sciences and MATH 2100 Calculus for Social/Natural Sciences I	6	MATH 170 Applied Calculus (3) and MATH 2100 at MU	
MATH 1500 Analytic Geometry and Calculus I	5	MATH 171 Analy Geom&Calc I (5)	
STAT 1400 Elem Stat for Life Sciences and CMP SC 1040 Intro to Problem Solving & Programming	6	None	
Chemistry (16 credits)			
CHEM 1320 College Chemistry I	4	CHEM 121 Gen Chemistry I (5)	
CHEM 1330 College Chemistry II	4	CHEM 122 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	CHEM 240 Basic Organic Chemistry (5)	
Physics (8-10 credits)			
<i>Select one option:</i>			
PHYS 1210 College Physics I and Lab and PHYS 1220 College Physics II and Lab	8	None and None	
PHYS 2750 University Physics I and Lab and PHYS 2760 University Physics II and Lab	10	PHYS 211 General Physics I (5) and PHYS 212 General Physics II (5)	
English Exposition and Argumentation (3 credits)			
ENGLISH 1000 Exposition and Argumentation	3	ENGL 112 Adv College Writing (3)	
*Behavioral Sciences (5 credits)			
Behavioral Science 1	3	Select behavioral sciences from the general education list.	
Behavioral Science 2	2-3		
*Social Sciences (9 credits) Courses from at least two different departments.			
State Requirement in Government or History	3	Select state requirement from the general education list.	
Social Science 2	3	Select social sciences from the general education list.	
Social Science 3	3		
*Humanities/Fine Arts (12 credits) Courses from at least three different areas.			
Humanity 1	3	Select humanities from the general education list.	
Humanity 2	3		
Humanity 3	3		
Humanity 4	3		
Foreign Language (12-13 credits) Must be in the same language. <i>Requirement is waived if level 4 of single foreign language was completed in high school.</i>			
Language 1	5	Select language courses from the general education list.	
Language 2	5		
Language 3	3		
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.			
<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 200-level/2000-level A&S courses 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	Must be taken at MU.
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 190 Biology for Majors (5)
BIO SC 2200 General Genetics	4	None
BIO SC 2300 Cell Biology	4	None
Evolutionary Biology (<i>select one course</i>) BIO SC 3400 Evolution and Ecology BIO SC 4600 Evolution	3	None
Biological Diversity (<i>select one course</i>) 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 (<i>select one course</i>) 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 231 & 232 Anat & Phys I & II (max credit of 4 hours) BIOL 253 Microbiology (3-4)
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

Three Rivers Community College

Three Rivers Community College Course

Behavioral Sciences

ANTH 211 Intro to Anthropology (3)
 PSYC 111 Gen Psychology (3)
 PSYC 112 Psych of Pers Adjust (3)
 PSYC 223 Child Psychology (3)
 PSYC 233 Adolescent Psych (3)
 PSYC 243 Human Dev Across Life (3)
 SCOM 210 Interpers Comm (3)
 SOCI 111 Gen Sociology (3)
 SOCI 221 Race & Ethnicity (3)
 SOCI 223 Marriage & the Family (3)
 SOCI 230 Criminology (3)

Humanities

ARTS 110 Intro to Art (3)
 ARTS 123 Hist&Apprec of Art (3)
 ENGL 221 World Lit to 1600 (3)
 ENGL 222 World Lit since 1600 (3)
 ENGL 223 Classical Mythology (3)
 ENGL 231 English Lit to 1798 (3)
 ENGL 232 English Lit since 1798 (3)
 ENGL 233 Shakespeare (3)
 ENGL 241 Amer Lit to 1870 (3)
 ENGL 242 Amer Lit since 1870 (3)
 ENGL 281 Old Testament Lit (3)
 ENGL 282 New Testament Lit (3)
 FILM 122 Hist & Apprec of Film (3)
 HNRS 220 Hnrs Multi-Disc Sem (3)
 MCOM 101 Mass Comm & Society (3)
 MUSC 123 Hist & Apprec of Music (3)
 MUSC 221 Music Literature I (3)
 MUSC 222 Music Literature II (3)
 PHIL 200 Intro to Philosophy (3)
 PHIL 223 Literature of Bible (3)
 PHIL 233 Ethics (3)
 PHIL 243 Religions of the World (3)
 SCOM 110 Public Speaking (3)
 SCOM 243 Argument & Debate (3)
 THEA 120 Hist & Apprec of Theater (3)
 VALU 161 Values, Econ & Decision (3)
 VALU 180 Ideas in Living (3)
 VALU 181 Images of Women (3)
 VALU 182 Music of the World (3)
 VALU 190 World Foods & Society (3)

MU Equivalent

ANTHRO 1000
 PSYCH 1000
 PSYCH BEH
 PSYCH 2410
 PSYCH BEH
 PSYCH BEH
 COMMUN 3561
 SOCIOL 1000
 SOCIOL BEH
 SOCIOL 3420
 SOCIOL 3600

ART_GNR1010
 ART_GNR1020
 ENGLSH 2155
 ENGLSH 2155
 CL_HUM 1060
 ENGLSH 2200
 ENGLSH 2200
 ENGLSH 2160
 ENGLSH 2300
 ENGLSH 2300
 REL_ST 2500
 REL_ST 2510
 FILM_S HUM
 MISC HUM
 COMMUN 2100
 MUSIC NM 1310
 MUSIC_NHUM
 MUSIC_NHUM
 PHIL 1000
 REL_ST HUM
 PHIL 1100
 REL_ST 2110
 COMMUN 1200
 COMMUN 3572
 THEATR HUM
 MISC HUM
 MISC HUM
 WMN_ST HUM
 MUSIC_NHUM
 MISC HUM

Three Rivers Community College Course

Social Sciences (◆=State Requirement)

ECON 211 Prin of Macroecon (3)
 ECON 212 Prin of Microecon (3)
 GEOG 111 Reg World Geog I (3)
 GEOG 112 Reg World Geog II (3)
 GNST 111 Personal Finance (3)
 ◆GOVT 111 Intro Political Sci (3)
 ◆GOVT 121 National & State Gov't (3)
 GOVT 122 Intro Public Policy (3)
 GOVT 220 Missouri Gov't (1)
 ◆GOVT 223 State & Local Gov't (3)
 GOVT 233 International Relations (3)
 ◆HIST 111 Amer Hist to 1877 (3)
 ◆HIST 112 Amer Hist since 1877 (3)
 HIST 121 World Civ to Renaiss (3)
 HIST 122 World Civ since Renaiss (3)
 HIST 201 Evil:Historical Persp (3)
 HIST 211 The US since 1945 (3)
 SOCI 234 Social Problems (3)

Foreign Language

SPAN 101 Elem Spanish I (3)
 SPAN 102 Elem Spanish II (3)
 SPAN 201 Interm Spanish I (3)
 SPAN 202 Interm Spanish II (3)

MU Equivalent

ECONOM 1015
 ECONOM 1014
 GEOG 1200
 GEOG 1100
 FINPLN 2183
 POL_SC 1700
 POL_SC 1100
 POL_SC 4320
 POL_SC SSC
 POL_SC 2100
 POL_SC 1400
 HIST 1100
 HIST 1200
 HIST SSC
 HIST SSC
 HIST SSC
 HIST SSC
 SOCIOL 3010

SPAN 1100A
 SPAN 1100B
 SPAN 1200
 SPAN 2100