

St. Charles Community College and the University of Missouri

Transfer Guide for a Bachelor of Science in Biological Sciences

This plan is intended only as a general guide based on requirements in the 2010-2012 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>)
- 3) Biological Sciences (<http://biology.missouri.edu/undergrad/index.shtml>)

University of Missouri		St. Charles Community College	
COURSE	CREDITS	COURSE	CREDITS
Mathematics (5 - 6 credits)			
<i>*Excluding College Algebra</i>			
MATH 1100 College Algebra	4	MAT 160 College Algebra	4
MATH 1400 Calculus for Social/Natural Sciences	4	MAT 210 SURVEY CALCULUS	4
MATH 1500 Analytic Geometry and Calculus I	5	MAT 180 CALC & ANALY GEOM I	5
STAT 1300 Elementary Statistics	3	MAT 175 INTRO STAT	3
Chemistry (16 credits)			
CHEM 1310 and 1320 General Chemistry I and II with Lab	5	CHEM 115 GENERAL CHEM I	5
CHEM 1330 General Chemistry III with Lab	3	CHEM 116 GENERAL CHEM II	5
CHEM 2100 Organic Chemistry I	3	CHEM 240 ORGANIC CHEM I	3
CHEM 2110 Organic Chemistry II	3	CHEM 241 ORGANIC CHEM II	3
CHEM 2130 Organic Chemistry I Lab	2	CHEM 243 ORGANIC LAB I	2
Physics (8-10 credits)			
PHYS 1210 College Physics I and Lab	4	PHY 150 General Physics I PHY 153 General Physics Lab I	4
PHYS 1220 College Physics II and Lab	4	PHY 151 General Physics II PHY 154 General Physics Lab II	4
PHYS 2750 University Physics I and Lab	5	PHY 240 College Physics I PHY 243 College Physics I Lab	5
PHYS 2760 University Physics II and Lab	5	PHY 241 College Physics II PHY 244 College Physics II Lab	5
English Exposition and Argumentation (3 credits)			
ENGLISH 1000 Exposition and Argumentation	3	ENG 102 ENGLISH COMP II	3
Behavioral Science (6 credits) ▪ At least 9 credit hours of behavioral science, social science or humanities must be at the 2000-level or above.			
PSYCH 1000 General Psychology	3	PSY 101 INTRO TO PSYCHOLOGY	3
PSYCH 2410 Developmental Psychology	3	PSY 201 CHILD PSYCHOLOGY	3
SOCIOL 1000 Introduction to Sociology	3	SOC 101 INTRO TO SOCIOLOGY	3
SOCIOL 2230 Social Perspectives of Aging	3	SOC 251 ASPECTS OF AGING	3
For more behavioral science options, go to http://generaleducation.missouri.edu/courses/ .			
Social Science (9 credits) ▪ Courses from at least two different departments. One course must satisfy the Missouri State Law Requirement (<i>italicized courses</i>) At least 9 credit hours of behavioral science, social science or humanities must be at the 2000-level or above.			
ECONOM 1014 Principles of Microeconomics	3	ECO 120 PRINC OF MICROECONOMICS	3
ECONOM 1015 Principles of Macroeconomics	3	ECO 110 PRINC OF MACROECONOMICS	3
<i>HIST 1100 Survey of American History to 1865</i>	3	<i>HIS 101 US HIST TO 1877</i>	3
<i>HIST 1200 Survey of American History Since 1865</i>	3	<i>HIS 102 US HIST SINCE 1877</i>	3
<i>POL SC 1100 American Government</i>	3	<i>POL 101 AM GOVERNMENT</i>	3
For more social science options, go to http://generaleducation.missouri.edu/courses/ .			
Humanities/Fine Arts (12 credits) Courses from at least three different departments. At least 3 credit hours of behavioral science, social science or humanities must be at the 2000-level or above.			
ART GNRL 1020 Appreciation of Art	3	ART 101 ART APPRECIATION (3)	3
COMMUN 1200 Public Speaking	3	SPE 101 ORAL COMMUNICATION OR SPE 102 PUBLIC SPEAKING	3
MUSIC NM 1310 Masterpieces of Western Music	3	MUS 111 MUSIC APPRECIATION	3

University of Missouri		St. Charles Community College	
COURSE	CREDITS	COURSE	CREDITS
PHIL 1000 General Introduction to Philosophy	3	PHL 101 INTRO TO PHILOSOPHY	3
THEATR 1100 The Theatre in Society	3	THE 122 INTRO TO THE THEATER	3
For more humanities/fine arts options, go to http://generaleducation.missouri.edu/courses/ .			
Foreign Language (12-13 credits) - Must be in the same language			
**Requirement is waived if level 4 of a single foreign language was completed in High School			
FRENCH 1100 Elementary French I	4	FRN 101 FRENCH LANG & CULTURE I	4
FRENCH 1200 Elementary French II	4	FRN 102 FRENCH LANG & CULTURE II	4
FRENCH 2100 Elementary French III	4	FRN 201 FRENCH LANG & CULTURE III	4
SPAN 1100 Elementary Spanish I	4	SPN 101 SPAN LANG & CULTURE I	4
SPAN 1200 Elementary Spanish II	4	SPN 102 SPAN LANG & CULTURE II	4
SPAN 2100 Elementary Spanish III	4	SPN 201 SPAN LANG & CULTURE III	4
For more foreign language options, go to the University of Missouri Course Equivalency webpage			
Writing Intensive (2 courses) All students are required to take two Writing Intensive (WI) courses. One 3000 Biology Course must be taken and the second WI can be a humanities, social or behavioral science, or other approved WI course. WI courses must be taken at MU.			
** If an Associate of Arts Degree is completed, one WI course is waived			
Biological (33 credits)			
Bio 1500 Introduction to Biological Systems	5	BIO 150 GEN BIOLOGY I BIO 151 GEN BIOLOGY II	8
Bio Elective Credit (Physiology)	4	BIO 240/243 ANATOMY AND PHYSIOLOGY I & Lab BIO 241/244 ANATOMY AND PHYSIOLOGY II & Lab	8
Bio Elective Credit (Microbiology)	4	BIO 245/247 MICROBIOLOGY AND LAB	4
Electives choose electives to reach the total of 120 credits required for graduation and a minimum of 30 credits at the 3000 level or higher at MU			
Total Hours for BS in Biological Sciences	120		

Students must complete a total of **33 hours** in Biology for the BS degree and at least **14 hours** in Biology at the 3000 level or higher. Below are sample plans for years 1 and 2 at St. Charles Community College.

Semester 1

COL 101 (1 credit)
Math 160 (4 credits)
Eng 101 (3 credits)
Lang 1 (4 credits)
Bio 150 (4 credits)

Semester 2

Eng 102 (3 credits)
SPE 101 (3 credits)
Lang 2 (4 credits)
Bio 151 (4 credits)
State Law Req (3 credits)

Semester 3

Lang 3 (4 credits)
Chem 115 (5 credits)
Col 299 (1 credit)
Soc Sci Group 2 (3 credits)
Hum Group 1 (3 credits)

Semester 4

CPT 115 (3 credits)
Chem 116 (5 credits)
Soc Sci Group 1 or 2 (3 credits)
Bio 245 (3 credits)
Elective (2 credits)

For more information about the Biological Sciences degree, please contact:

Biology Advising Office
3 Tucker Hall
Columbia, Mo 65211
(573) 882-4068

<http://biology.missouri.edu/undergrad/advisingcontacts.shtml>