

University of Missouri

Bachelor of Science in Biology

Transfer Guide for Ozarks Technical 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		Ozarks Technical Community College	
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)	
College Algebra (3)			
MATH 1100 College Algebra	3	MTH 130 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	None	
MATH 1500 Analytic Geometry and Calculus I	5	MTH 140 Analy Geom/Calc I (5)	
STAT 1400 Elem Stat for Life Sciences and CMP SC 1040 Intro to Problem Solving & Programming	6	MTH 210 Statistical Meth (MRP) (3) and CIS 150 C# Programming I (3) and CIS 210 Data Struct (4)	
Chemistry (16 credits)			
CHEM 1320 College Chemistry I	4	CHM 111 Gen Chemistry I (5)	
CHEM 1330 College Chemistry II	4	CHM 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	
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	PHY 120 Gen Physics I (4) and PHY 130 Gen Physics II (4)	
PHYS 2750 University Physics I and Lab and PHYS 2760 University Physics II and Lab	10	PHY 220 Physics for Engr & Sci I (5) and PHY 222 Physics for Engr & Sci II (5)	
English Exposition and Argumentation (3 credits)			
ENGLISH 1000 Exposition and Argumentation	3	ENG 102 Comp II (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).			

University of Missouri		Ozarks Technical Community College
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	BIO 160 & BIO 170 Gen Biology I & II (8)
BIO SC 2200 General Genetics	4	BIO 250 Genetics (4)
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	BCS 200 Microbiology (4) or BIO 292 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 Ozarks Technical College

<u>Ozarks Technical College Course</u>	<u>MU Equivalent</u>	<u>Ozarks Technical College Course</u>	<u>MU Equivalent</u>
Behavioral Sciences		Social Sciences (◆=State Requirement)	
ANT 101 Intro Anthropology (3)	ANTHRO 1000	ECO 270 Princ of Macroeconomics (3)	ECONOM 1015
ANT 220 Cultural Anthro (3)	ANTHRO 2030	ECO 275 Princ of Microeconomics (3)	ECONOM 1014
COM 200 Interpersonal Comm (3)	COMMUN 3561	GRY 101 World Geog (3)	GEOG SSC
PSY 110 Intro Psychology (3)	PSYCH 1000	GRY 230 World Econ Geog (3)	GEOG 2710
PSY 100 Psychology of Personal Adjustment (3)	PSYCH BEH	HST 105 World in Hist I (3)	HIST SSC
PSY 130 Life Span Dev Psych (3)	PSYCH BEH	HST 106 World Hist II (3)	HIST SSC
PSY 260 Child Psych (3)	PSYCH 2410	◆HST 120 US History I: to 1865 (3)	HIST 1100
PSY 265 Adolescent Psychology (3)	PSYCH BEH	◆HST 130 US History II: 1865 to the Present (3)	HIST 1200
PSY 275 Consumer Psych (3)	PSYCH BEH	◆HST 230 20th Cent Amer (3)	HIST 2210
PSY 280 Social Psych (3)	PSYCH 2310	◆PLS 101 Amer Gov & Politics (3)	POL_SC 1100
PSY 285 Abnormal Psych (3)	PSYCH 2510	PLS 102 MO Gov/Const (1)	POL_SC SSC
SOC 101 Intro to Sociology (3)	SOCIOLOG 1000	PLS 103 Intro Amer Pub Policy (3)	POL_SC SSC
SOC 200 Cultural Diversity (3)	SOCIOLOG BEH	PLS 201 Internat Relations (3)	POL_SC 1400
SOC 225 Soc of Family (3)	SOCIOLOG 3420	PLS 250 Pol of the Environ (3)	POL_SC SSC
		PLS 255 Environ Laws & Reg (3)	POL_SC SSC
		SOC 210 Urban Sociology (3)	SOCIOLOG 3000
Humanities		Foreign Language	
ART 101 Art History I (3)	AR_H_A 1110	FRN 101 Beginning French I (3)	FRENCH 1100A
ART 105 Art History II (3)	AR_H_A 1120	FRN 102 Beginning French II (3)	FRENCH 1100B
ART 110 Art & Experience (3)	ART_GNR1020	GRM 101 Beg German I (3)	GERMAN 1100A
COM 105 Public Speaking (3)	COMMUN 1200	GRM 102 Beg German II (3)	GERMAN 1100B
COM 150 Intro Mass Comm (3)	COMMUN 2100	SPN 101 Beg Spanish I (3)	SPAN 1100A
ENG 180 Intro to Literature (3)	ENGLISH LIT	SPN 102 Beg Spanish II (3)	SPAN 1100B
ENG 195 Sel Tops in Lit (1)	ENGLISH LIT	SPN 201 Interm Span I (3)	SPAN 1200
ENG 220 Amer Lit: Beg-1870 (3)	ENGLISH 2300	SPN 202 Interm Span II (3)	SPAN 2100
ENG 225 Amer Lit: 1870-Pres (3)	ENGLISH 2300		
ENG 240 British Lit: Beg-1790 (3)	ENGLISH 2200		
ENG 245 British Lit: 1790-Pres (3)	ENGLISH 2200		
ENG 250 Children's Lit (3)	ENGLISH LIT		
ENG 260 Surv World Lit I (3)	ENGLISH 2155		
ENG 265 Surv World Lit II (3)	ENGLISH 2155		
HUM 101 Intro Humanities (3)	MISC HUM		
HUM 102 World Humanities (3)	MISC HUM		
MUS 101 Music of the World (3)	MUSIC_N1313		
MUS 105 Western Music (3)	MUSIC_N1310		
MUS 110 Music Fund (3)	MUSIC_N1211		
MUS 120 Music Theory I (2)	MUS_THR1220		
MUS 121 Music Theory II (2)	MUS_THR1221		
MUS 201 Latin Amer Music (3)	MUSIC_NHUM		
PHL 101 Intro to Philosophy (3)	PHIL 1000		
PHL 105 Intro Ethics (3)	PHIL 1100		
PHL 110 Rel of the World (3)	REL_ST 2110		
PHL 120 Intro New Testament (3)	REL_ST 2510		
THR 101 Intro Theater (3)	THEATR 1100		
THR 110 Acting Fund (3)	THEATR 1400		
THR 115 Intro Script Analy (3)	THEATR 2800		