University of Missouri Bachelor of Science in Biology Transfer Guide for East Central 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/)

or more information about the Biological Sciences degree, ple	ase correae		
University of Missouri	CREDITS	East Central College Equivalent course (credits)	
College Algebra (3)	CREDITS	EQUIVALENT COURSE (CREDITS)	
MATH 1100 College Algebra	3	MT 1403 College Algebra (3)	
Mathematical Sciences (5-6)	<u> </u>	WIT 1403 CONCECTIBEDIO (3)	
Select one option:			
MATH 1400 Calculus for Social/Natural Sciences and		BU 2013/MT 2013 Survey Calculus (3) and	
MATH 1400 Calculus for Social/Natural Sciences I	6	MATH 2100 at MU	
MATH 1500 Analytic Geometry and Calculus I	5	MT 1605 Analy Geom & Calc I (5)	
STAT 1400 Elem Stat for Life Sciences and	J	MT 2103 Statistics (3) and	
CMP SC 1040 Intro to Problem Solving & Programming	6	EG 2203 C++ Program Engr (3) and EG 2211 C++ Prog/Engin Lab (1)	
Chemistry (16 credits)		Lo 2203 CTT Trogram Engl (3) and Lo 2211 CTT Trog/ Englit Lab (1)	
CHEM 1320 College Chemistry I	4	CH 1305 Gen Chemistry I Lec & Lab (5)	
CHEM 1330 College Chemistry II	4	CH 1405 Gen Chemistry I Lec & Lab (5)	
CHEM 2100 Organic Chemistry I	3	CH 2305 Organic Chemistry I Lec & Lab (5) CH 2415 Organic Chem II Lec & Lab (5) or	
CHEM 2110 Organic Chemistry II	3	CH 2205 Org & Biochem Lec & Lab (5)	
CLIENA 2420 Overania Chamieta III ah	2		
CHEM 2130 Organic Chemistry I Lab	2	CH 2305 Organic Chemistry I Lec & Lab (5)	
Physics (8-10 credits)	<u> </u>		
Select one option:		DU 4702 0 DU 4742 Callana Division L/C) and	
PHYS 1210 College Physics I and Lab and	8	PH 1703 & PH 1712 College Physics I (5) and	
PHYS 1220 College Physics II and Lab		PH 1803 & PH 1812 College Physics II Lec (5)	
PHYS 2750 University Physics I and Lab and	10	PH 2103 & PH 2112 Gen Physics I (5) and	
PHYS 2760 University Physics II and Lab		PH 2203 & PH 2212 Gen Physics II (5)	
English Exposition and Argumentation (3 credits)		FN 4222 F - 15 h C 11 /2)	
ENGLSH 1000 Exposition and Argumentation	3	EN 1333 English Comp II (3)	
*Behavioral Sciences (5 credits)			
Behavioral Science 1	3	Select <u>behavioral sciences</u> from the general education list.	
Behavioral Science 2	2-3		
*Social Sciences (9 credits) Courses from at least two different a	1		
State Requirement in Government or History	3	Select state requirement from the general education list.	
Social Science 2	3	Select <u>social sciences</u> from the general education list.	
Social Science 3	3		
#Humanities/Fine Arts (12 credits) Courses from at least three o		Pas.	
Humanity 1	3		
Humanity 2	3	Select <u>humanities</u> from the general education list.	
Humanity 3	3		
Humanity 4	3		
Foreign Language (12-13 credits) Must be in the same language.			
Requirement is waived if level 4 of single foreign language was co		nign scnooi.	
Language 1	5		
Language 2	5	Select <u>language courses</u> from the general education list.	
Language 3	3	, social science, or humanities must be at the 2000-level or above.	

ourse Upper-level general education courses may also count toward other of Upper Level 1	CREDITS	EQUIVALENT COURSE (CREDITS)
t Unner Level 1		
ropper Level 1	3	Select 200-level/2000-level A&S courses from behavioral science, social science, or humanity or the general education list. Level is based upon the community college course number, NOT the
Upper Level 2	3	MU equivalent.
Ipper Level 3	3	Must be taken at MU.
Vriting Intensive (2 courses) Must be completed with a C- or b	etter.	
Writing Intensive course from anywhere in the curriculum	3	Must be taken at MU unless waived via completion of an AA degree.
Vriting Intensive course numbered 3000 or above in biology	3	Must be taken at MU.
iological Sciences (33 credits) At least 14 credits in Biology m	ust be comp	leted at the 3000-level or higher
10.00 4500 let est est est est est est est est est e	_	BI 1325 Prin of Biology I Lec & Lab (5) and
BIO SC 1500 Introduction to Biological Systems	5	BI 1415 Prin of Biology II Lec & Lab (5)
IO SC 2200 General Genetics	4	BI 2005 Genetics Lec & Lab (5)
IO SC 2300 Cell Biology	4	BI 2045 Cell Biology Lec & Lab (5)
volutionary Biology (select one course)		
BIO SC 3400 Evolution and Ecology	3	None
BIO SC 4600 Evolution		
iological Diversity (select one course)		
BIO SC 2600 Ornithology		
BIO SC 2700 Ichthyology		
MICROB 3200 - Medical Microbiology and Immunology		
BIO SC 3210 Plant Systematics	3-5	None
BIO SC 3260 Invertebrate Zoology		Tronc
BIO SC 3510 Biology of Fungi		
BIO SC 3660 Mammalogy		
BIO SC 3710 & 3715 Intro Entomology/Insect Diversity		
Eapstone (select one course)		
BIO SC 4950/4952 Undergraduate Research in Biology		
BIO SC 4936 Molecular Biology		
BIO SC 4978 Cancer Biology		
BIO SC 4978 Cancer Biology BIO SC 4982 Human Inherited Diseases		
	3-5	None
BIO SC 4983 Molecular Ecology	3-3	None
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		
liology Electives		D10404 1044511 4 10 D1 10 H/
Bio Elective Credit (Physiology)	7-11	BI 2104 and 2115 Hum Anat & Phys I & II (max credit of 4 hours)
Bio Elective Credit (Microbiology)		BI 2404 Microbiology Lec & Lab (4)
Other Bio Elective Credit		
lectives hoose electives to reach the total of 120 credits required for gr		

General Education Courses East Central College

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East Central College Course	MU Equivalent	East Central College Course	MU Equivalent
Behavioral Sciences		Social Sciences (◆= State Requirement)	
AN 1003 Intro to Cult Anthro (3)	ANTHRO 2030	CV 1003 American Civilization (3)	HIST SSC
		` ,	
AN 1103 Intro Phy Anth & Arch (3)	ANTHRO BEH	CV 2103 European Civil I (3)	HIST 1500
PY 1103 Gen Psychology (3)	PSYCH 1000	CV 2203 European Civil II (3)	HIST 1510
PY 2103 Pers & Social Adjust (3)	PSYCH BEH	CV 2303 Latin Amer Civil (3)	HIST 1850
PY 2203 Child Psychology (3)	PSYCH 2410	CV 2613 East Asian Civ to 1800 (3)	HIST SSC
PY 2213 Abnormal Psychology (3)	PSYCH 2510	CV 2623 East Asian Civ Since 1800 (3)	HIST 1830
PY 2303 Social Psychology (3)	PSYCH 2310	EC 2103 Prin of Macroecon (3)	ECONOM 1015
PY 2403 Human Development (3)	PSYCH BEH	EC 2203 Prin of Microecon (3)	ECONOM 1014
PY 2503 Adolescent Psych (3)	PSYCH BEH	GE 1003 World Geography (3)	GEOG SSC
SO 1103 Gen Sociology (3)	SOCIOL 1000	◆HI 1001 US & State Constitution Competency (1)	POL SC SSCST
SO 2103 Human Relations (3)	SOCIOL 3310	♦HI 1103 US Hist to 1865 (3)	HIST 1100
SO 2203 Marriage & Family (3)	SOCIOL 3420	◆HI 1203 US Hist 1865-1945 (3)	HIST 1200
		HI 1303 US Hist 1945-Present (3)	HIST SSC
Humanities		HI 1403 MO & Miss Valley Hist (3)	HIST SSC
AR 1203 Art Appreciation I (3)	ART_GNR1020	HI 2802 Heritage Studies Lec (3)	HIST SSC
AR 1703 Art History I (3)	AR_H_A 1110	HI 2903 World Since 1945 (3)	HIST SSC
AR 1713 Art History II (3)	AR_H_A 1120	◆PS 1103 Intro Political Sci (3)	POL_SC 1700
CT 1033 Intro to Mass Comm (3)	COMMUN 2100	◆PS 1203 US Govt I: Natl & St (3)	POL_SC 1100
CT 1103 Public Speaking (3)	COMMUN 1200	◆PS 1303 State and Local Government (3)	POL SC 2100
CT 1303 Theatre Appreciation (3)	THEATR 1100	PS 2103 Internat Relations (3)	POL SC 1400
CT 1403 Beginning Acting (3)	THEATR 1400	SO 1203 Amer Social Prob (3)	SOCIOL 3010
CV 2023 Islamic Civilization (3)	REL_ST 2700		
CV 2603 Japanese Civil (3)	JAPNSE 2320	Foreign Language	
EN 1413 World Lit I (3)	ENGLSH LIT	AB 1104 Elem Standard Arabic I (4)	ARABIC 1100A
EN 1423 World Lit II (3)	ENGLSH LIT	AB 1204 Elem Standard Arabic II (4)	ARABIC 1100B
EN 1503 Poetry (3)	ENGLSH LIT	FR 1104 Elem French I (4)	FRENCH 1100
EN 1603 Fiction (3)	ENGLSH LIT	FR 1204 Elem French II (4)	FRENCH 1200
EN 1613 World Fiction (3)	ENGLSH LIT	FR 2104 Interm French I (4)	FRENCH 2100
EN 1703 Drama as Lit (3)	ENGLSH LIT	GR 1003 Beg German I (3)	GERMAN 1100A
EN 1803 Art of the Novel (3)	ENGLSH LIT	GR 1103 Elem German I (3)	GERMAN 1100A
EN 1813 Fiction into Film (3)			
	ENGLSH 2870	GR 1104 Elem German I (4)	GERMAN 1100
EN 1903 Classical Mythology (3)	CL_HUM 1060	GR 1203 Elem German II (3)	GERMAN 1100B
EN 2033 Lit for Children (3)	ENGLSH LIT	GR 1204 Elem German II (4)	GERMAN 1200
EN 2103 Survey Brit Lit: Beg 1784 (3)	ENGLSH 2200	GR 2113 Interm German I (3)	GERMAN 1100B
EN 2113 Sur Brit Lit: Romntcsm-Pr (3)	ENGLSH 2200	GR 2114 Interm German I (4)	GERMAN 2100
EN 2203 Sur Amer Lit: Colnl-1865 (3)	ENGLSH 2300	SP 1104 Elem Spanish I (4)	SPAN 1100
EN 2213 Surv Amer Lit: 1865-Pres (3)	ENGLSH 2300	SP 1204 Elem Spanish II (4)	SPAN 1200
EN 2223 Lit of Mystery (3)	ENGLSH 2150	SP 2114 Interm Spanish I (4)	SPAN 2100
EN 2303 Latino/a Literature (3)	ENGLSH 2000		
EN 2323 Women's Literature	ENGLSH 2180		
EN 2403 Lit of Fantasy (3)	ENGLSH 2150		
EN 2503 Lit of Sci Fict (3)	ENGLSH 2150		
EN 2603 Introduction to Shakespeare (3)	ENGLSH 2160		
MU 1503 World Music (3)	MUSIC_N1313		
MU 1603 Music Appreciation (3)	MUSIC_N1310		
PR 1003 Intro Philosophy (3)	PHIL 1000		
PR 1203 Hist of Mod Phil (3)	PHIL 3200		
PR 1303 Living World Religions (3)	REL_ST 2110		
PR 2103 Cont Ethical Prob (3)	PHIL 1100		
PR 2403 Biblical Lit I: Old Test (3)	REL_ST HUM		
PR 2503 Bibl Lit II: Old Test (3)	REL ST 2500		
PR 2603 Bibl Lit III: New Test (3)	REL_ST 2510		
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