

University of Missouri

Bachelor of Science in Biology

Transfer Guide for North Central Missouri 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		North Central Missouri College	
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)	
College Algebra (3)			
MATH 1100 College Algebra	3	MT 122 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	MT 150 Geom & Calc I (5)	
STAT 1400 Elem Stat for Life Sciences and CMP SC 1040 Intro to Problem Solving & Programming	6	MT 125 Elementary Statistics (3) and IT 182 Prog in Visual Basic I (3) or IT 243 Programming I (3)	
Chemistry (16 credits)			
CHEM 1320 College Chemistry I	4	CH 110 Gen Chemistry I (5)	
CHEM 1330 College Chemistry II	4	CH 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	PS 185 College Physics I (4) and PS 186 College Physics II (4)	
PHYS 2750 University Physics I and Lab and PHYS 2760 University Physics II and Lab	10	PS 210 Gen Physics I (5) and PS 212 Gen Physics II (5)	
English Exposition and Argumentation (3 credits)			
ENGLISH 1000 Exposition and Argumentation	3	EN 102 English 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).			

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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	BIO 101 Gen Botany (5) and BIO 103 Gen Zoology (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	BI 242 Human Physiology (4) BI 243 Microbiology (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 North Central Missouri College

North Central Missouri College Course

MU Equivalent

North Central Missouri College Course

MU Equivalent

Behavioral Sciences

PY 121 Gen Psychology (3)
 PY 214 Social Psych (3)
 PY 219 Adult Dev & Aging (2)
 PY 225 Child Psych (3)
 PY 226 Adolescent Psych (3)
 PY 230 Abnormal Psych (3)
 PY 233 Human Growth & Dev (3)
 PY 245 Adv Gen Psych (3)
 SO 107 Gen Sociology (3)
 SO 201 Marriage & the Family (3)

PSYCH 1000
 PSYCH 2310
 PSYCH BEH
 PSYCH 2410
 PSYCH BEH
 PSYCH 2510
 PSYCH BEH
 PSYCH BEH
 SOCIOL 1000
 SOCIOL 3420

Social Sciences (◆=State Requirement)

AG 148 Agric Sales
 BA 103 Consumer Finance (3)
 EC 223 Agric Econ (3)
 EC 252 Microeconomics (3)
 EC 253 Macroeconomics (3)
 GE 106 Intro World Geog (3)
 HI 101 West Civ to 1700 (3)
 HI 102 West Civ Since 1700 (3)
 ◆HI 103 Amer Hist to 1877 (3)
 ◆HI 104 Amer Hist Since 1877 (3)
 PE 220 Intro to Recreation (3)
 PL 105 Missouri Constitution (1)
 ◆PL 116 State & Local Govt (3)
 ◆PL 216 National Government (3)
 SO 210 Social Problems (3)

AG EC 2223
 FINPLN 2183
 AG_EC 1041
 ECONOM 1014
 ECONOM 1015
 GEOG SSC
 HIST 1500
 HIST 1510
 HIST 1100
 HIST 1200
 P_R_TR 1010
 POL_SC SSC
 POL_SC 2100
 POL_SC 1100
 SOCIOL 3010

Humanities

AR 102 Apprec of the Arts (1-3)
 AR 104 Art Appreciation (3)
 EN 196 Lit for Children (3)
 EN 211 Studies in Literature (3)
 EN 230 English Lit I (3)
 EN 240 English Lit II (3)
 EN 251 World Lit I: Beg to Renaiss (3)
 EN 252 World Lit II: Enlight to Pres (3)
 EN 261 Amer Lit Before 1865 (3)
 EN 262 Amer Lit After 1865 (3)
 EN 280 Intro to Literature (3)
 HU 110 Hum: Pre-Renaiss (3)
 HU 111 Hum: Renaiss to Pres (3)
 MU 109 Music Apprec (3)
 PH 101 Ethics (3)
 PH 102 Intro to Philosophy (3)
 RL 101 Intro to Religion (3)
 RL 110 Intro Old Testament (3)
 RL 131 New Testament Survey (3)
 SP 175 Speech Comm (3)
 TH 111 Intro Theatre (3)
 TH 113 Begin Acting (2)

ART GNR 1020
 ART_GNR1020
 ENGLISH LIT
 ENGLISH 1160
 ENGLISH 2200
 ENGLISH 2200
 ENGLISH LIT
 ENGLISH LIT
 ENGLISH LIT
 ENGLISH 2300
 ENGLISH 2300
 ENGLISH LIT
 MISC HUM
 MISC HUM
 MUSIC_NHUM
 PHIL 1100
 PHIL 1000
 REL_ST 1100
 REL_ST 2500
 REL_ST 2510
 COMMUN 1200
 THEATR 1100
 THEATR 1400

Foreign Language

FL 100 Elem Spanish I (3)
 FL 101 Elem Spanish II (3)
 FL 110 Elem German (4)
 FL 111 Elem Germ II (3)
 FL 120 Elem French I (3)
 FL 122 Elem French II (3)

SPAN 1100A
 SPAN 1100B
 GERMAN 1100A
 GERMAN 1100B
 FRENCH 1100A
 FRENCH 1100B