



This transfer guide is intended to help you prepare for your transfer from St. Charles Community College to the Bachelor of Science in Biology degree at MU. *This plan is not a substitute for academic advising.* Before following this guide, we encourage you to contact an MU academic advisor for further information about degree requirements, course selection, and graduation requirements.

Contact Information

Division of Biological Sciences

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Other Resources

Check the following web sites for current course descriptions, prerequisites, course equivalencies and other specific details about the degree:

- 1) College Catalog (<http://majors.missouri.edu>)
- 2) Transfer Admission (<http://transfer.missouri.edu>)
- 3) Transfer Equivalencies (<https://www.transferology.com/school/missouri> or <http://transfercourses.missouri.edu>)
- 4) Biological Sciences (<http://biology.missouri.edu/undergrad/>)

Transfer Admission Requirements

- Transfer students who meet MU's freshman admission requirements must have a 2.5 transfer GPA in college-level courses to be admitted.
- Transfer students who do not meet MU's freshman admission requirements must have:
 - A minimum of 24 transferable college-level credits;
 - A 2.5 GPA in transferable college-level courses; and
 - Either College Algebra with a C- or better or the equivalent to MU's English 1000 with a C- or better.
- Transfer students with an associate of arts (AA) degree from a regionally accredited Missouri community college are considered to have met the general transfer admission requirements.

Additional Information

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.) At least 12 hours at 2000-level or higher approved biology coursework must be taken at MU.



University of Missouri		St. Charles Community College
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)
College Algebra (3)		
MATH 1100 College Algebra	3	MAT 156 College Algebra-Educators (4) or MAT 158 College Algebra-General Education (4) or MAT 162 College Algebra-STEM (4) or MAT 160 College Algebra
Mathematical Sciences (6-8)		
MATH 1400 Calculus for Social/Natural Sciences or MATH 1500 Analytic Geometry and Calculus I or INFOTC 1040 Intro to Problem Solving & Programming	3-5	MAT 210 Survey Calculus (MRP) (4) (MATH 1400) or MAT 180 Calc & Analy Geom I (MRP) (5) (MATH 1500) or CPT 284 Java Program (3) (INFOTC 1040) or CPT 182 Program in C++ or CPT 186 Program in C#
STAT 1400 Elem Stat for Life Sciences or STAT 1200 Introductory Statistical Reasoning or STAT 1300 Elementary Statistics	3	MAT 175 Intro Statistics (MRP) (3)
Chemistry (16 credits)		
CHEM 1320 College Chemistry I	4	CHM 115 Gen Chem I (5)
CHEM 1330 College Chemistry II	4	CHM 116 Gen Chem II (5)
CHEM 2100 Organic Chemistry I	3	CHM 240 Organic Chem I (3)
CHEM 2110 Organic Chemistry II	3	CHM 241 Organic Chem II (3)
CHEM 2130 Organic Chemistry I Lab	2	CHM 243 Organic Chem I Lab (2)
Physics (8-10 credits)		
Select one option:		
PHYS 1210 College Physics I and Lab and PHYS 1220 College Physics II and Lab	8	PHY 150 & PHY 153 Gen Physics I (4) and PHY 151 & PHY 154 Gen Physics II (4)
PHYS 2750 University Physics I and Lab and PHYS 2760 University Physics II and Lab	10	PHY 250 Engineering Physics I (5) and PHY 251 Engineering Physics II (5)
English Exposition and Argumentation (3 credits)		
ENGLSH 1000 Exposition and Argumentation	3	ENG 102 English Comp II (3)
Behavioral Sciences (5 credits)		
Behavioral Science 1	3	Select behavioral sciences from the general education list on page 4.
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 on page 4.
Social Science 2	3	Select social sciences from the general education list on page 4.
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 on page 4.
Humanity 2	3	
Humanity 3	3	
Humanity 4	3	
Foreign Language or Foreign Language Alternative (12-13 credits)		
Select one option:		
Foreign Language - 12-3 credits in the same language Requirement is waived if level 4 of single foreign language was completed in high school.	5	Select language courses from the general education list on page 4.
Foreign Language Alternative – 12 credits from one of three approved tracks	5	Check the biological sciences web site for options.
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).		
Upper Level 1	3	Select 2000-level A&S courses from behavioral science, social science, or humanity on the general education list on page 4. Level is based upon the community college course number, NOT the MU equivalent.
Upper Level 2	3	Must be taken at MU.
Upper Level 3	3	
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.



University of Missouri		St. Charles Community College
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)
Biological Sciences (33 credits) <i>At least 14 credits in Biology must be completed at the 3000-level or higher</i>		
BIO SC 1500 Introduction to Biological Systems	5	BIO 151 Gen Biology II (4)
BIO SC 2200 General Genetics	4	No Equivalent
BIO SC 2300 Cell Biology	4	No Equivalent
Evolutionary Biology (<i>select one course</i>) BIO SC 3400 Evolution and Ecology BIO SC 4600 Evolution	3	No Equivalent
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 BIO SC 3750 General Microbiology	3-5	No Equivalent
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 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	No Equivalent
Biology Electives Bio Elective Credit (Physiology) Bio Elective Credit (Microbiology) Other Bio Elective Credit	7-11	BIO 250 (A) & 251 (A) Anatomy & Phys I & II (8) (max credit of 4 hours) BIO 245 and 247 Microbiology with Lab (4)
Electives		
Choose electives to reach the total of 120 credits required for graduation.		
Total Hours for BS in Biological Sciences	120	



General Education Courses

St. Charles Community College Course	MU Equivalent	St. Charles Community College Course	MU Equivalent
Behavioral Sciences			
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ANT 102 Intro Cult Anthro (3)	ANTHRO 2030	SOC 101 Intro Sociology (3)	SOCIOL 1000
ANT 103 Intro Archaeology (3)	ANTHRO 2021	SOC 102 Intro Soc Theory (3)	SOCIOL BEH
PSY 101 Intro Psychology (3)	PSYCH 1000	SOC 221 Sociology of Art (3)	SOCIOL BEH
PSY 201 Child Psychology (3)	PSYCH 2410	SOC 224 Sex, Gender & Soc (3)	SOCIOL 1360
PSY 215 Adolescent Psych (3)	PSYCH BEH	SOC 241 Soc Through Lit (3)	SOCIOL BEH
PSY 216 Abnormal Psych (3)	PSYCH 2510	SOC 251 Aspects of Aging (3)	SOCIOL 2230
PSY 230 Social Psychology (3)	PSYCH 2310	SOC 290 Readings in Soc (3)	SOCIOL BEH
PSY 290 SpTpcs in Psych (1-3)	PSYCH BEH		
Humanities			
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ANT 161 Arch of Religion (3)	ANTHRO 1005	LIT 240 Contemp Lit (3)	ENGLISH 2140
ANT 171 Intro Egyptology (3)	MISC HUM	LIT 241 Soc through Lit (3)	ENGLISH LIT
ART 101 Art Appreciation (3)	ART_GNRL 1020	LIT 242 Post Colonial Lit (3)	ENGLISH 2155
ART 150 West Art Hist I (3)	AR_H_A 1110	LIT 250 Engl Lit Before 1800 (3)	ENGLISH 2200
ART 151 West Art Hist II (3)	AR_H_A 1120	LIT 252 Intro to Shakespeare (3)	ENGLISH LIT
ART 160 Mod & Contemp Art Hist (3)	AR_H_A HUM	LIT 260 Engl Lit After 1800 (3)	ENGLISH 2200
ART 222 History of Photography (3)	ART_PHOT HUM	LIT 265 Fiction toFilm (3)	ENGLISH LIT
ART 275 Art & Arch Field Studies (3)	AR_H_A HUM	LIT 271 Literature and Contempory Cultures (3)	ENGLISH LIT
BUS 105 Business Ethics (3)	PHIL 2420	LIT 272 World Lit:Anc-Renaiss (3)	ENGLISH 2155
COM 102 Intro Mass Comm (3)	COMMUN 2100	LIT 273 Wld Lit:Enlight-20th Cent (3)	ENGLISH 2155
CPT 105 Computer Ethics (3)	PHIL 2400	LIT 274 Evol of Tragedy (3)	ENGLISH LIT
FRN 190 Tops in Fren Lang & Cult (1-4)	FRENCH HUM	LIT 275 Holocaust Lit (3)	ENGLISH 1160
FRN 195 Fren Lang & Civil I (1-9)	FRENCH HUM	LIT 299 Tops in Lit (3)	ENGLISH LIT
FRN 210 Intro to Fren Cinema (3)	FRENCH HUM	MUS 101 Found of Music (3)	MUSIC_NM 1211
FRN 215 Readings in Fren (3)	FRENCH HUM	MUS 109 American Popular Music (3)	MUS_NM HUM
FRN 290 Tops: Interm Fren Lang & Cult (1-6)	FRENCH HUM	MUS 110 American Music Appreciation (3)	MUS_NM HUM
GLC 133 Cult of Cent Amer & Car (1-3)	MISC HUM	MUS 111 Music Appreciation (3)	MUSIC_NM 1310
GLC 135 Cult of Amaz & Andes (1-3)	MISC HUM	MUS 112 Jazz Appreciation (3)	MUSIC_NM 1312
GLC 140 Celtic Hist & Contemp Cult (1-3)	MISC HUM	MUS 131 Music Theory I (3)	MUS_THRY 1220
GLC 145 Theater in London (1)	MISC HUM	MUS 132 Music Theory II (3)	MUS_THRY 1221
GLC 155 Cent European Hist & Cult (1-3)	MISC HUM	MUS 231 Music Hist I (3)	MUSIC_NM HUM
GLC 170 African Cult (1-3)	MISC HUM	MUS 232 Music Hist II (3)	MUSIC_NM HUM
GLC 180 Australian Cult (1-3)	MISC HUM	MUS 234 Jazz History (3)	MUSIC_NM 1312
GLC 210 Intro to Fren Cinema (3)	FRENCH HUM	PHL 101 Intro to Philosophy (3)	PHIL 1000
GLS 101 Intro Global Studies (3)	MISC HUM	PHL 102 Intro to Logic (3)	PHIL 1200
GLS 290 Spec Tops Global Studies (3)	MISC HUM	PHL 160 Ethics (3)	PHIL 1100
GRM 215 Reading in German (3)	GERMAN HUM	PHL 201 World Religion (3)	REL_ST 2110
LIT 200 World Mythology (3)	MISC HUM	PHL 260 Reason & Religion (3)	PHIL HUM
LIT 210 Amer Lit: 1620-1865 (3)	ENGLISH 2300	SPE 101 Oral Comm (3)	COMMUN 1200
LIT 215 Intro to Poetry (3)	ENGLISH 2000	SPE 102 Public Speaking (3)	COMMUN 1200
LIT 216 Dramatic Lit (3)	ENGLISH 2000	SPN 215 Spanish Readings (3)	SPAN HUM
LIT 220 Amer Lit: 1865-Pres (3)	ENGLISH 2300	THE 122 Intro to Theater (3)	THEATR 1100
LIT 230 Contemp Fiction (3)	ENGLISH 2140	THE 123 Intro to Cinema (3)	FILM_S HUM
LIT 236 Science Fiction (3)	ENGLISH 2150	THE 124 History of Film (3)	FILM_S HUM
LIT 237 Detective Fiction (3)	ENGLISH 2150	THE 126 Major Themes in Film (3)	FILM_S HUM
LIT 238 Horror Fiction (3)	ENGLISH 2150		
Social Sciences (◆=State Requirement)			
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ANT 151 World Archaeology (3)	ANTHRO 2215	HIS 230 Film as History (3)	HIST SSC
ECO 100 Survey of Econ (3)	ECONOM SSC	HIS 240 Europe since 1914 (3)	HIST SSC
ECO 110 Princ of Macroecon (3)	ECONOM 1015	◆HIS 270 Hist of Missouri (3)	HIST 2440
ECO 120 Princ of Microecon (3)	ECONOM 1014	HIS 280 Mod British Hist (3)	HIST 1550
GEO 100 Princ of Geography (3)	GEOG SSC	HIS 299 Topics in History (3)	HIST SSC
GEO 101 Geog: Eastern World (3)	GEOG 1200	◆POL 101 Am Government (3)	POL_SC 1100
GEO 102 Geog: Western World (3)	GEOG 1100	◆POL 102 State & Local Govt (3)	POL_SC 2100
GEO 115 Geog of North Amer (3)	GEOG 2120	POL 201 Internat'l Relations (3)	POL_SC 1400
◆HIS 101 US Hist to 1877 (3)	HIST 1100	POL 210 Comparative Politics (3)	POL_SC 2700
◆HIS 102 US Hist since 1877 (3)	HIST 1200	POL 220 Middle Eastern Politics (3)	POL_SC SSC
◆HIS 115 US Hist since 1945 (3)	HIST SSC ST	POL 255 Euro Politics&Cultrs (3)	POL_SC SSC
HIS 145 West Civ: Anct & Medieval (3)	HIST 1500	POL 280 Modern Britian (3)	POL_SC SSC
HIS 146 West Civ: Mod Europe (3)	HIST 1510	POL 299 Topics in Pol Sci (3)	POL_SC SSC
HIS 160 Native American Hist (3)	HIST SSC		
Foreign Language			
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ARB 201 Arabic Language and Culture III (4)	ARABIC 1200B	GRM 102 Germ Lang & Cult II (4)	GERMAN 1200
FRN 101 Fren Lang & Cult I (4)	FRENCH 1100	GRM 201 Germ Lang & Cult III (4)	GERMAN 2100
FRN 102 Fren Lang & Cult II (4)	FRENCH 1200	SPN 101 Span Lang & Cult I (4)	SPAN 1100
FRN 201 Fren Lang/Cult III (4)	FRENCH 2100	SPN 102 Span Lang & Cult II (4)	SPAN 1200
GRM 101 Germ Lang & Cult I (4)	GERMAN 1100	SPN 201 Span Lang & Cult III (4)	SPAN 2100