

UNIVERSITY OF MISSOURI- ST. LOUIS  
AND  
JEFFERSON COLLEGE

ASSOCIATE IN ARTS IN GENERAL EDUCATION leading to a BACHELOR OF SCIENCE in

**BIOLOGY**

**FIRST SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
ENG 101 English Composition I (3)	<i>Approved Elective</i>
MTH 134 College Algebra (3)	<i>Math 1030</i>
COL 101 Introduction to College (1)	<i>Free Elective</i>
CHM 111 General Chemistry I (5)	<i>Chem 1111</i>
BIO 205 General Botany (5)	<i>Biol 1811</i>

Semester Hours: (17)

**SECOND SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
ENG 102 English Composition II (3)	<i>Approved Elective</i>
PSC 102 U.S.& MO Gov.& Const.(3)	<i>Pol Sc 1100</i>
SPD 175 Public Speaking (3)	<i>Commun 1040</i>
*CHM 112 General Chemistry II (3)	<i>*Chem 1121</i>
*CHM 113 Gen. Chemistry II Lab (2)	<i>*Chem 1121</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

**THIRD SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
HST 103 U.S. History I (3) <b>or</b> HST 104 U.S. History II (3)	<i>Hist 1001</i> <i>Hist 1002</i>
MTH 180 Calculus I (5)	<i>Math 1800</i>
BIO 206 General Zoology (5)	<i>Biol 1821</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>

Semester Hours: (16)

**FOURTH SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
MATH 133 Trigonometry (3)	<i>Math 1035</i>
CHM 200 Organic Chemistry I (5)	<i>Chem 2612/2633</i>
Humanities (3)	<i>Gen Ed</i>
Humanities (3)	<i>Gen Ed</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>

Semester Hours: (17)

**FIFTH SEMESTER**

**UMSL Course (Hours)**  
ENGLSH 3160 Writing in the Sciences (3)  
PHYS 1011 Basic Physics I (4)  
CHEM 2622 Organic Chemistry II (3)  
BIOL 2012 Genetics (3)  
BIOL 2013 Genetics Laboratory (2)

Semester Hours: (15)

**SIXTH SEMESTER**

**UMSL Course (Hours)**  
PHYS 1012 Basic Physics II (4)  
BIOL 3302 Introduction to Evolution (3)  
BIOL 3622 Cell Biology (3)  
2000 Level or above Biology Lecture (3)  
2000 Level or above Biology Laboratory (2)

Semester Hours: (15)

**SEVENTH SEMESTER**

**UMSL Course (Hours)**  
PHIL 2256 Bioethics (3) **or**  
PHIL 3380 Philosophy of Science (3)  
BIOL 4122 Biometry (3)  
Biology Diversity Course (3)  
2000 Level or above Biology Lecture (3)  
2000 Level or above Biology Laboratory (2)

Semester Hours: (14)

**EIGHTH SEMESTER**

**UMSL Course (Hours)**  
BIOL 4889 Senior Seminar (2)  
BIOL 4905 Research (2)  
4000 Level or above Biology Lecture (3)  
4000 Level or above Biology Lecture (3)  
Upper Level Elective (3)

Semester Hours: (13)

**DEGREE NOTES:**

\* For equivalency of UMSL's *CHEM 1121 Introductory Chemistry II* Jefferson College students must successfully complete both *CHM 112 General Chemistry II & CHM 113 General Chemistry II Laboratory*.

A minimum of 120 hours is required for the Bachelor of Science in Biology.

Free Elective hours do not count towards the total required for graduation at the University of Missouri-St. Louis.

Students completing a degree from a Missouri community college that includes a CBHE approved general education core will be allowed transfer credit of more than 64 hours only if the additional lower division credits are applicable to the baccalaureate degree or are prerequisites for upper division courses in the major.

A maximum of 60 hours may transfer without the completion of a degree including a CBHE approved general education core.

Please seek advisement from your Jefferson College Academic Advisor for assurance of Associates degree completion.

**IT IS IMPORTANT TO CONTACT AN UMSL TRANSFER COORDINATOR EACH SEMESTER:**

Susan Bateman, University of Missouri- St. Louis Transfer Coordinator, (636) 797-3000: ext. 244.

For additional information contact Carol Weber in the University of Missouri- St. Louis Biology Department: 223 Research Building, (314) 516-6216, cweber@umsl.edu.