

UNIVERSITY OF MISSOURI- ST. LOUIS  
AND  
JEFFERSON COLLEGE

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

**CHEMISTRY**

**FIRST SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
ENG 101 English Composition I (3)	<i>Approved Elective</i>
PSC 102 U.S.& MO Gov.& Const.(3)	<i>Pol Sc 1100</i>
*Lang 101 Beginning Language (5)	<i>Lang 1001</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

**THIRD SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
SPD 175 Public Speaking (3)	<i>Commun 1040</i>
HST 103 U.S. History I (3) <b>or</b>	<i>Hist 1001</i>
HST 104 U.S. History II (3)	<i>Hist 1002</i>
CHM 111 General Chemistry I (5)	<i>Chem 1111</i>
*Lang 201 Lang. Gram. & Comp.(3)	<i>Lang 2101</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

**FIFTH SEMESTER**

<b>UMSL Course (Hours)</b>
ENGLISH 3100 Advanced Expository Writing (3)
MATH 1900 Analytic Geometry and Calculus II (5)
CHEM 2223 Quantitative Analysis (3)
CHEM 2612 Organic Chemistry I (3)
CHEM 3412 Basic Inorganic Chemistry (2)

Semester Hours: (16)

**SEVENTH SEMESTER**

<b>UMSL Course (Hours)</b>
CHEM 3312 Physical Chemistry I (3)
CHEM 3643 Advanced Organic Chemistry Laboratory (2)
Upper Level Elective (3)
Upper Level Elective (3)
Upper Level Elective (3)

Semester Hours: (14)

**SECOND SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
ENG 102 English Composition II (3)	<i>Approved Elective</i>
COL 101 Introduction to College (1)	<i>Free Elective</i>
MTH 141 Precalculus (5)	<i>Math 1030/1035</i>
*Lang 102 Intermediate Language (5)	<i>Lang 1002</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

**FOURTH SEMESTER**

<b>Jefferson College Course (Hours)</b>	<b>UMSL Equivalent</b>
MTH 180 Calculus I (5)	<i>Math 1800</i>
**CHM 112 General Chemistry II (3)	<i>**Chem 1121</i>
**CHM 113 Gen.Chemistry II Lab(2)	<i>**Chem 1121</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>
Biological Science (3)	<i>Gen Ed</i>

Semester Hours: (16)

**SIXTH SEMESTER**

<b>UMSL Course (Hours)</b>
PHYSICS 2111 Physics: Mechanics & Heat (5)
MATH 2000 Analytic Geometry and Calculus III (5)
CHEM 2622 Organic Chemistry II (3)
CHEM 2633 Organic Chemistry Laboratory (2)
CHEM 3022 Introduction to Chemical Literature (1)

Semester Hours: (16)

**EIGHTH SEMESTER**

<b>UMSL Course (Hours)</b>
CHEM 3322 Physical Chemistry II (3)
CHEM 3333 Physical Chemistry Laboratory I (2)
CHEM 4897 Seminar (1)
Upper Level Elective (3)
Upper Level Elective (3)

Semester Hours: (12)

## **DEGREE NOTES:**

\* Jefferson College students can complete a foreign language sequence in French or Spanish for satisfactory equivalence and completion of the UMSL Foreign Language requirement. It is **strongly** recommended that **all** foreign language proficiency courses be completed at Jefferson College or at UMSL. If the proficiency sequence is incomplete at the time of transfer, students will be required to take the UMSL Foreign Language Placement exam before being permitted to take additional foreign language courses.

\*\* 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 Arts in Chemistry.

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 Keith Stine in the University of Missouri- St. Louis Chemistry Department: 315 Benton Hall, (314) 516-5311, [kstine@umsl.edu](mailto:kstine@umsl.edu).