

UNIVERSITY OF MISSOURI- ST. LOUIS
AND
JEFFERSON COLLEGE

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

CHEMISTRY

FIRST SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
ENG 101 English Composition I (3)	<i>Approved Elective</i>
PSC 102 U.S.& MO Gov.& Const.(3)	<i>Pol Sc 1100</i>
MTH 141 Precalculus (5)	<i>Math 1030/1035</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

SECOND SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
ENG 102 English Composition II (3)	<i>Approved Elective</i>
COL 101 Introduction to College (1)	<i>Free Elective</i>
MTH 180 Calculus I (5)	<i>Math 1800</i>
CHM 111 General Chemistry I (5)	<i>Chem 1111</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

THIRD SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
SPD 175 Public Speaking (3)	<i>Commun 1040</i>
HST 103 U.S. History I (3) or	<i>Hist 1001</i>
HST 104 U.S. History II (3)	<i>Hist 1002</i>
*CHM 112 General Chemistry II (3)	<i>*Chem 1121</i>
*CHM 113 Gen.Chemistry II Lab(2)	<i>*Chem 1121</i>
PHY 118 Introduction to Physics (2)	<i>Physcs 1001</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (16)

FOURTH SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
MTH 185 Calculus II (5)	<i>Math 1900</i>
PHY 223 General Physics I (4)	<i>Physcs 2111</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>
Biological Science (3)	<i>Gen Ed</i>

Semester Hours: (15)

SUMMER SESSION

UMSL Course (Hours)

MATH 2000 Analytic Geometry and Calculus III (5)

Semester Hours: (5)

FIFTH SEMESTER

UMSL Course (Hours)

ENGLISH 3100 Advanced Expository Writing (3)
CHEM 2223 Quantitative Analysis (3)
CHEM 2612 Organic Chemistry I (3)
CHEM 3312 Physical Chemistry I (3)
CHEM 3412 Basic Inorganic Chemistry (2)

Semester Hours: (14)

SIXTH SEMESTER

UMSL Course (Hours)

CHEM 2622 Organic Chemistry II (3)
CHEM 2633 Organic Chemistry Laboratory (2)
CHEM 3322 Physical Chemistry II (3)
CHEM 3333 Physical Chemistry Laboratory I (2)
Upper Level Elective (3)

Semester Hours: (14)

SEVENTH SEMESTER

UMSL Course (Hours)

CHEM 3643 Advanced Organic Chemistry Laboratory (2)
CHEM 3905 Chemical Research (2)
CHEM 4212 Instrumental Analysis (2)
CHEM 4412 Advanced Inorganic Chemistry (3)
CHEM 4712 Biochemistry (3)
CHEM 3022 Introduction to Chemical Literature (1)

Semester Hours: (13)

EIGHTH SEMESTER

UMSL Course (Hours)

CHEM 4433 Inorganic Chemistry Laboratory (2)
CHEM 4343 Physical Chemistry Laboratory II (2)
CHEM 4233 Laboratory in Instrumental Analysis (2)
CHEM 4897 Seminar (1)
Upper Level Elective (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 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.