

UNIVERSITY OF MISSOURI - ST. LOUIS  
AND  
ST. CHARLES COMMUNITY COLLEGE

ASSOCIATE OF ARTS LEADING TO BACHELOR OF SCIENCE IN

**CHEMISTRY**

**FIRST SEMESTER**

**SCC**

#MATH 180 Calc I (5)  
CHM 110 **and** 113 Gen. Chm I (5)  
ENG 101 Comp I (3)  
COL 101 Orientation to Coll (1)  
Humanities (Group I) (3)

**UMSL Equiv.**

*Math 1800*  
*Chm 1111&B*  
*Eng 1100*

**SECOND SEMESTER**

**SCC**

MATH 230 Calc II (5)  
ENG 102 Comp II (3)  
State Req./ Social Science (3)  
CHM 111 & 114 Gen. Chm II (5)  
Humanities (Group II) (3)

**UMSL Equiv.**

*Math 1900*  
  
*Chm 1121 A & B*

Hours: (17)

Hours: (19)

**THIRD SEMESTER**

**SCC**

MATH 240 Calc III (5)  
CPT 115 Intro to D.P. (3)  
SPE 101 Oral Com (3)  
Social Science (Group II) (3)  
CHM 240 Organic Chm I (3)

**UMSL Equiv.**

*Math 2000*  
*BA 1800*  
*Com 1040*  
  
*Chm 2612*

**FOURTH SEMESTER**

**SCC**

Bio Science (Group I) (3-4)  
Soc. Sci. (Group I or II) (3)  
Humanities (Grp I or II) (3)  
\*Multicultural/Value (3)  
Col 299 Capstone (1)  
CHM 241 Organic Chem II (3)

**UMSL Equiv.**

*Chm 2622*

Hours: (17)

Hours: (16-17)

**FIFTH SEMESTER**

**UMSL**

Engl 3100 Adv Expository Writing (3)  
Physics 2111 Physics: Mechanics & Heat (5)  
Chem 2223 Quantitative Analysis (3)  
Chem 2633 Techniques in Organic Chem (2)  
Chem 4712 Biochemistry (3)

**SIXTH SEMESTER**

**UMSL**

Physics 2112 Electricity, Magnetism & Optics (5)  
Chem 3312 Physical Chemistry I (3)  
Chem 3333 Physical Chemistry Lab I (2)  
Chem 3412 Basic Inorganic Chemistry (3)

Hours: (16)

Hours: (13)

**SEVENTH SEMESTER**

**UMSL**

Chem 4412 Inorganic Chemistry I (3)  
Chem 3643 Advanced Org Chem Lab (2)  
Chem 4343 Physical Chem Lab (2)  
Chem 3322 Physical Chem II (3)  
Chem 3022 Intro to Chemistry Lab (1)  
Chemistry Elective (3)

**EIGHTH SEMESTER**

**UMSL**

Chem 4212 Instrumental Analysis (2)  
Chem 4233 Instrumental Analysis Lab (2)  
Chem 4433 Inorganic Reaction (2)  
3000 level Chemistry Elective (3)  
Chem 4897 Senior Seminar (1)  
Chemistry Elective (3)

Hours: (15)

Hours: (13)

**NOTE: See back page for additional information.**

**DEGREE NOTES:**

#Students begin their Math Sequence based on results of SCC Math Placement Test

\*Courses that fulfill UMSL's Cultural Diversity Requirement: ANT 102, GEO 101, HST 201, GLC 170 or 180, PHL 201.

120 hours required for the BS in Chemistry

Students completing an Associate in Arts or an Associate in Applied Science 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.

Maximum of 60 hours may transfer without AA

Please seek advisement from your SCC Academic Advisor for assurance of AA completion

**CONTACT INFORMATION:**

**Note: It is important to contact the UM-St. Louis Transfer Coordinator each semester**

SCC-Elizabeth Higgins, UM-St. Louis Transfer Coordinator, in room 2123 Administration Bldg., 636-922-8241

For additional information, contact Keith Stine in the UM-St. Louis Chemistry Department, 315 Benton Hall, 314-516-5311 or [kstine@umsl.edu](mailto:kstine@umsl.edu)