

UNIVERSITY OF MISSOURI-ST. LOUIS  
AND  
SOUTHWESTERN ILLINOIS COLLEGE

ASSOCIATE IN SCIENCE LEADING TO BACHELOR OF SCIENCE IN

**CHEMISTRY**

**FIRST SEMESTER**

**SWIC**

ENG 101 Rhetoric & Comp I (3) *Approved Elective*  
BIOL 101 Principles of Biol I (4) *Biol 1811*  
\*MATH 203 An. Geo & Calc I (5) *Math 1800*  
CHEM 105 General Chem I (5) *Chem 1111*

Hours: (17)

**UMSL Equiv.**

**SECOND SEMESTER**

**SWIC**

ENG 102 Rhetoric & Comp II (3) *Eng 1100*  
CHEM 106 General Chem II (5) *Chem 1121*  
MATH 204 Am Geo & Calc II (5) *Math 1900*  
POLS 150 Intro to Americ Gov (3) *Pol Sci 1100*

Hours: (16)

**UMSL Equiv.**

**THIRD SEMESTER**

**SWIC**

Humanities (fine arts) (3) *Gen Ed*  
MATH 205 An Geo & Calc III (4) *Math 2000*  
CHEM 201 Organic Chem I (5) *Chem 2612/2633*  
Social Science (3) *Gen Ed*  
HLTH 151 Health (2)

Hours: (17)

**UMSL Equiv.**

**FOURTH SEMESTER**

**SWIC**

CHEM 202 Organic Chem. II (5) *Chem 2622*  
Soc Science/Non-west Culture (3) *Gen Ed/CD*  
Humanities (general) (3) *Gen Ed*  
Humanities (3) *Gen Ed*  
SPCH 151 Fund of Pub Speak (3) *Com 1040*

Hours: (17)

**UMSL Equiv.**

**FIFTH SEMESTER**

**UMSL**

PHYS 2111 Physics: Mechanics & Heat (5)  
CHEM 2223 Quantitative Analysis (3)  
CHEM 3022 Introduction to Chemical Literature (1)  
ENG 3100 Advanced Expository Writing **or**  
ENG 3130 Technical Writing **or**  
ENG 3090 Pract Crit: Writing About Literature (3)

Hours: (12)

**SIXTH SEMESTER**

**UMSL**

PHYS 2112 Phys: Electricity, Magnetism & Optics (5)  
CHEM 3312 Physical Chemistry I (3)  
CHEM 3333 Physical Chemistry Lab I (2)  
CHEM 3412 Basic Inorganic Chemistry (3)

Hours: (13)

**SEVENTH SEMESTER**

**UMSL**

CHEM 3643 Advanced Organic Chemistry Lab (2)  
CHEM 4712 Biochemistry (3)  
CHEM 3322 Physical Chemistry II (3)  
CHEM 4343 Physical Chemistry Lab II (2)

Hours: (10)

**EIGHTH SEMESTER**

**UMSL**

CHEM 4412 Inorganic Chemistry I (3)  
CHEM 4433 Inorganic Chemistry Laboratory (2)  
CHEM 4212 Instrumental Analysis (2)  
CHEM4233 Instrumental Analysis Lab (2)  
CHEM 4897 Seminar (1)  
3000/4000 Chemistry Elective (2)

Hours: (12)

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

**DEGREE NOTES:**

\*Students begin their Math Sequence based on results of SWIC Math Placement Test

Minimum of 120 hours required for the BS in Chemistry

Students completing an AA/AS degree from SWIC that includes the IAI 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/AS degrees

Please seek advisement from your SWIC Counselor for assurance of completion of the Associate Degree

**Students living in the Illinois counties of Madison, Monroe, St. Clair, and Jersey are eligible for the in-state tuition rate.**

**CONTACT INFORMATION:**

**NOTE: IT IS IMPORTANT TO CONTACT THE UM-ST. LOUIS TRANSFER COORDINATOR EACH SEMESTER**

Maya Scruggs, UM-St. Louis Transfer Coordinator, 225 MSC, 314-516-5873 or mms966@umsl.edu

For additional information, contact Keith Stine in the UM-St. Louis Chemistry Department, 315 Benton Hall, 516-5311 or kstine@umsl.edu.