

BS-MS: CHEMISTRY

The School of Science and Engineering established the BS-MS program to offer students an opportunity to meet the full requirements of the existing BS and MS degree programs in a shorter time period than the separate degree programs by completing a B.S. degree within four years and then completing an M.S. degree in the fifth year.

- Students admitted to the program will receive the unit BS/MS Scholarship which will cover the difference between Graduate and Undergraduate tuition rates
- Students are required to maintain full-time undergraduate enrollment (minimum 12 hours/ semester)
- Must be continuously enrolled from BS to MS programs (must enter graduate program the semester following completion of BS degree requirements, summer excepted)
- Students are required to maintain full-time enrollment (minimum 9 hours/semester) in the graduate phase of the program and complete the master's degree within a year of their bachelor's degree completion to continue to receive the BS/MS Scholarship

Admission Requirements for BS-MS Program:

Students must meet the following requirements to be eligible:

- The GRE will be waived for students who meet the qualifications above and are planning to enroll in the BS/MS program
- Students must indicate their interest and apply to the program no later than the end of their junior year
- Students must complete 30 hours at UMKC prior to admission to the BS/MS program
- Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain a UMKC cumulative GPA of 3.00 or higher

This program offers students an opportunity to meet the full requirements of the existing BS and MS degree programs in a shorter time period than the separate degree programs by completing a B.S. degree in Chemistry within four years, and then completing an M.S. degree in Chemistry in their fifth year.

Requirements for Graduation

Credit Hour Requirements

The BS and MS program in Chemistry requires a minimum of the following:

- 120 Undergraduate Credit Hours
- 31 Graduate Credit Hours
- 142 Total Credit Hours (9 Hours of Overlap taken in final year of Undergraduate Program).

For additional details, please contact our Department by e-mail sse@umkc.edu. (sce@umkc.edu)

5 Year BS-MS Map

First Year

Fall Semester	Credits	Spring Semester	Credits
CHEM 211		4 CHEM 212R	4
CHEM 211L		1 CHEM 212LR	1
MATH 120		5 MATH 210	4
GEFSE 101		3 ENGLISH 225	3
ENGLISH 110		3 GECRT-SC 101, 102, or 103	3
		LIFE-SCI 201 or BIOLOGY 250 (Recommended)	1
		16	16

Second Year

Fall Semester	Credits	Spring Semester	Credits
CHEM 321		3 CHEM 322R	3
CHEM 321L		1 CHEM 322L	1
PHYSICS 240		5 PHYSICS 250	5
MATH 220		4 MATH 250	4

COMM-ST 110, 140, or 277		3	GECRT-SS 101, 102, 104, 105, 106, 107, 108, or 111	3
		16	16	
Third Year				
Fall Semester	Credits		Spring Semester	Credits
CHEM 431		3	CHEM 432	3
CHEM 341WI		4	CHEM 437WI	3
CHEM 410		1	GECRT-AH 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112, 113, or 114	3
LIFE-SCI 202 or BIOLOGY 251 (Recommended)		1	GECUE 201, 203, 204, 205, 206, or 272	3
GECDV 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, or 211		3	General Elective	3
HISTORY 101, 102, or POL-SCI 210		3		
		15	15	
Fourth Year				
Fall Semester	Credits		Spring Semester	Credits
CHEM 382		2	CHEM 442R**	3
CHEM 367		3	CHEM 451R**	3
CHEM Major Elective 4XX**		3	Elective (CHEM 399 suggested)	3
Elective (CHEM 399 suggested)		3	General Elective	3
General Elective		3	CHEM GRD Course	3
		14	15	
Fifth Year				
Fall Semester	Credits		Spring Semester	Credits
CHEM 5531, 5533, or 5534		3	GRD Course	3
CHEM 5521R or 5522		3	GRD Course	3
CHEM 5611		1	CHEM 5599*	3
CHEM 5599*		3		
		10	9	

Total Credits: 142

* This plan is for students selecting the Master of Science: Chemistry-Thesis-Based Option. Students selecting the Master of Science: Chemistry-Non-Thesis-Based Option may substitute the six credits of CHEM 5599 with additional graduate level CHEM electives to be selected with the Chemistry Graduate Program Advisor.

** NOTE: 3 undergraduate courses (9 credit hours) counted toward the graduate degree for BS-MS students: Chemistry 442R, 451R, and Chemistry 400-level course