

**RECOMMENDED ASSOCIATE OF SCIENCE (AS) CURRICULUM IN CHEMISTRY (CALCULUS READY) FOR
KCTCS STUDENTS**

60 Credit Hours

A. General Education Core - 41 credit hours

Written Communications - 6 credit hours

ENG 101 (3)

ENG 102 (3)

Oral Communications - 3 credit hours

COM 181 (3)

Arts and Humanities - 6 credit hours

Humanities (3)

PHI 100 (3)

Heritage (3)

HIS 101 (3) or HIS 102 (3)

Quantitative Reasoning - 10 credit hours

MAT 175 (5)

MAT 185 (5)

Natural Sciences - 10 credit hours

One science course must include a laboratory experience.

CHE 270 (4) and CHE 275 (1)

CHE 280 (4) and CHE 285 (1)

Social and Behavioral Sciences - 6 credit hours

Two disciplines must be represented and different from those in the Arts and Humanities category.

REL 130 (3)

SOC 101 (3) or POL 101 (3) or GEO 152 (3)

B. Quantitative Reasoning and/or Natural Sciences - 10 credit hours

CHE 170 (4) and CHE 175 (1)

CHE 180 (4) and CHE 185 (1)

C. Electives - 9 credit hours

ENG 161 (3)

CIT 105 (3) [Required- KCTCS Digital Literacy Success Course]

FYE 105 (3) [Required- KCTCS College Success Course]

Early-Start MAT Chemistry Degree Program (Calculus Ready) for KCTCS Transfer Students (Undergraduate Degree in Chemistry-121 Credit Hours and with MAT Degree-145 Credit Hours)			
Courses Taken at KCTCS Community Colleges		Courses Transferred to Bellarmine	
		BU 100 (Waived for transfer students)	
		IDC 101 (Waived for transfer students)	
FYE 105	3	ELECTIVE	3
ENG 102	3	ELECTIVE	3
CIT 105	3	ELECTIVE	3
COM 181	3	ELECTIVE (COMM 103)	3
ENG 101	3	ENGL 101	3
ENG 161	3	ENGL 200	3
HIS 101 or 102	3	HIST 116 or 117	3
PHI 100	3	PHIL 101	3
REL 130	3	THEO 200	3
SOC 101 or POL 101 or GEO 152	3	Gen Ed Social Science	3
CHE 170 (LEC) and CHE 175 (LAB)	5	CHEM 103	4
CHE 180 (LEC) and CHE 185 (LAB)	5	CHEM 104	4
CHE 270 (LEC) and CHE 275 (LAB)	5	CHEM 205 and CHEM 205L	4
CHE 280 (LEC) and CHE 285 (LAB)	5	CHEM 206 and CHEM 206L	4
MAT 175	5	MATH 117	4
MAT 185	5	MATH 118	4
Total	60		54

THIRD YEAR			
<i>Fall</i>		<i>Spring</i>	
CHEM 307 or CHEM 411	4	CHEM 308 or CHEM 412	4
Chemistry Elective	3	CHEM 309 or Elective	4/3
PHYS 205	4	PHYS 206	4
Gen Ed THEO Elective	3	PHIL 301	3
Foreign Lang. 101	3	Foreign Lang. 102	3
Total	17		18/17

FOURTH YEAR			
<i>Fall</i>		<i>Spring</i>	
CHEM 307 or CHEM 411	4	CHEM 308 or CHEM 412	4
Chemistry Elective	3	CHEM 309 or Elective	4/3
Fine Arts	3	IDC 401	3
MAT 502	3	MAT 605	3
MAT 507 or MAT 505	3	MAT 610	3
Total	16		17/16

FIFTH YEAR			
<i>Summer</i>			
MAT 600			3
MAT 614			3
MAT 615			3
Total			9
<i>Fall</i>		<i>Spring</i>	
MAT 545	3	MAT 648 or MAT 644	3
MAT 580 or MAT 582	3	MAT 649 or MAT 643	3
MAT 509	3		
Total	9		6

**RECOMMENDED ASSOCIATE OF SCIENCE (AS) CURRICULUM IN CHEMISTRY (CALCULUS READY) FOR
KCTCS STUDENTS**

62 Credit Hours

A. General Education Core - 41 credit hours

Written Communications - 6 credit hours

ENG 101 (3)

ENG 102 (3)

Oral Communications - 3 credit hours

COM 181 (3)

Arts and Humanities - 6 credit hours

Humanities (3)

PHI 100 (3)

Heritage (3)

HIS 101 (3) or HIS 102 (3)

Quantitative Reasoning - 10 credit hours

MAT 171 (5)

MAT 175 (5)

Natural Sciences - 10 credit hours

One science course must include a laboratory experience.

CHE 170 (4) and CHE 175 (1)

CHE 180 (4) and CHE 185 (1)

Social and Behavioral Sciences - 6 credit hours

Two disciplines must be represented and different from those in the Arts and Humanities category.

REL 130 (3)

SOC 101 (3) or POL 101 (3) or GEO 152 (3)

B. Quantitative Reasoning and/or Natural Sciences - 5 credit hours

MAT 185 (5)

C. Electives - 16 credit hours

CHE 270 (4) and CHE 275 (1)

CHE 280 (4) and CHE 285 (1)

CIT 105 (3) [Required- KCTCS Digital Literacy Success Course]

FYE 105 (3) [Required- KCTCS College Success Course]

Early-Start MAT Chemistry Degree Program (Not-Calculus Ready) for KCTCS Transfer Students (Undergraduate Degree in Chemistry-125 Credit Hours and with MAT Degree-149 Credit Hours)			
Courses Taken at KCTCS Community Colleges		Courses Transferred to Bellarmine	
		BU 100 (Automatically waived for transfer students)	
		IDC 101 (Automatically waived for transfer students)	
FYE 105	3	ELECTIVE	3
ENG 102	3	ELECTIVE	3
CIT 105	3	ELECTIVE	3
COM 181	3	ELECTIVE (COMM 103)	3
ENG 101	3	ENGL 101	3
HIS 101 or 102	3	HIST 116 or 117	3
PHI 100	3	PHIL 101	3
REL 130	3	THEO 200	3
SOC 101 or POL 101 or GEO 152	3	Gen Ed Social Science	3
CHE 170 (LEC) and CHE 175 (LAB)	5	CHEM 103	4
CHE 180 (LEC) and CHE 185 (LAB)	5	CHEM 104	4
CHE 270 (LEC) and CHE 275 (LAB)	5	CHEM 205 and CHEM 205L	4
CHE 280 (LEC) and CHE 285(LAB)	5	CHEM 206 and CHEM 206L	4
MAT 171	5	MATH 116	4
MAT 175	5	MATH 117	4
MAT 185	5	MATH 118	4
Total	62		55

THIRD YEAR			
<i>Fall</i>		<i>Spring</i>	
CHEM 307 or CHEM 411	4	CHEM 308 or CHEM 412	4
Chemistry Elective	3	CHEM 309 or Elective	4/3
PHYS 205	4	PHYS 206	4
Gen Ed THEO Elective	3	PHIL 301	3
Foreign Lang. 101	3	Foreign Lang. 102	3
Total	17		18/17

FOURTH YEAR			
<i>Fall</i>		<i>Spring</i>	
CHEM 307 or CHEM 411	4	CHEM 308 or CHEM 412	4
Chemistry Elective	3	CHEM 309 or Elective	4/3
Fine Arts	3	IDC 401	3
ENGL 200	3	MAT 605	3
MAT 502	3	MAT 610	3
MAT 507 or MAT 505	3		
Total	19		17/16

FIFTH YEAR			
<i>Summer</i>			
MAT 600			3
MAT 614			3
MAT 615			3
Total			9
<i>Fall</i>		<i>Spring</i>	
MAT 545	3	MAT 648 or MAT 644	3
MAT 580 or MAT 582	3	MAT 649 or MAT 643	3
MAT 509	3		
Total	9		6