



***Associate of Science to Bachelor of Arts in Chemistry  
with Secondary Education***

Completion of the following curriculum will satisfy the requirements for the Associate of Science degree at Gateway Community and Technical College and leads to the Bachelor of Arts in Chemistry with Secondary Education degree at Northern Kentucky University.

**Degree requirement for KCTCS:**

1) completion of minimum 60 credit hours, 2) minimum cumulative GPA 2.0, 3) minimum of 15 credit hours earned at the institution awarding the degree, 4) cultural studies course, and 5) demonstration of computer/digital literacy.

**Admission Requirements for a Bachelor of Arts in Secondary Education**

(Courses in parentheses are GCTC course equivalents)

- A minimum overall GPA of 2.75
- A minimum grade of "B" in CMST 101 (COM 181) and ENG 102 (ENG 102)
- A minimum grade of "C" in all other pre-admission courses and required EDU and EDS courses which include EDU 300 (EDP 202), EDU 305 (EDU 201), EDU 313 (EDU 204), and EDS 360 (EDP 203).
- Praxis Core Academic Skills for Educators: Reading (5712) – 156 or higher, Writing (5722) – 162 or higher and Mathematics (5732) – 150 or higher
- Pass criminal background check
- 60 semester hours completed
- An acceptable portfolio
- A completed application to the Teacher Education program

Students wishing to be certified to teach Chemistry at the secondary level must complete the requirements for the B.A. in Secondary Education along with the requirements for a B.A. in Chemistry.

**Degree requirements for a Bachelor of Arts in Chemistry with Secondary Education:**

Students majoring in Chemistry must earn a grade of C- or better in each course for the major.

**At least 45 credit hours must be 300 level or above.** Students must meet the pre-requisites for each course. At least 20 percent of the total required hours must be taken at NKU.

## GCTC AS TO NKU BA IN CHEMISTRY WITH SECONDARY EDUCATION CHECKLIST

### Gateway Community and Technical College

Category I: General Education Core Requirements				
GCTC Course	Course or Category	Credits	NKU Course	<input checked="" type="checkbox"/>
ENG 101	Writing I (WC)	3	ENG 101	
ENG 102	Writing II (WC)	3	ENG 102	
COM 181	Basic Public Speaking (OC)	3	CMST 101	
TBS XXX	Arts and Humanities (AH) Heritage	3	TBD XXX	
TBS XXX	Arts and Humanities (AH) Humanities	3	TBD XXX	
PSY 110	General Psychology (SB)	3	PSY 100	
TBS XXX	Social & Behavioral Sciences Course (SB)	3	TBD XXX	
CHE 170/175	General College Chemistry I and General College Chemistry Laboratory I (SL)	5	CHE 120/120L	
CHE 180/185	General College Chemistry II and General College Chemistry Laboratory II (SL)	5	CHE 121/121L	
MAT 175	Calculus I (QR)	5	MAT 129	
MAT 185	Calculus II (QR)	5	MAT 229	
<b>Subtotal General Education Courses</b>		<b>41</b>		

TBS XXX means to be selected by GCTC student.

TBD XXX means to be determined by NKU based on course selected.

Category II: AS Requirements				
GCTC Course	Course or Category	Credits	NKU Course	<input checked="" type="checkbox"/>
PHY 201/202	College Physics I and College Physics I Laboratory	5	PHY 211	
PHY 203/204	College Physics II and College Physics II Laboratory	5	PHY 213	
<b>Subtotal AA Requirement Courses</b>		<b>10</b>		

Category III: Electives				
GCTC Course	Course or Category	Credits	NKU Course	<input checked="" type="checkbox"/>
EDU 201	Introduction to American Education	3	EDU 305	
EDU 204	Technology in the Classroom	3	EDU 313	
EDP 202	Human Development and Learning	3	EDU 300	
EDP 203	Teaching Exceptional Learners in Regular Classrooms	3	EDS 360	
<b>Subtotal Elective Courses</b>		<b>12</b>		
<b>Total Associate Degree Hours</b>		<b>63</b>		

## Northern Kentucky University

Category IV: Major Requirements for the BA in Chemistry with Secondary Education				
NKU Course	Course	Credits	GCTC Course	Taken at GCTC
EDU 104	Orientation: Education Profession/Program	1		
EDU 300	Human Growth and Development	3	EDP 202	x
EDU 304 or EDU 530	Reading and Writing Across the Curriculum: Middle Grades or Reading in Junior and Senior High School	3		
EDU 305	Introduction to Education	2	EDU 201	x
EDU 311	Admission Field Experience Secondary	2		
EDU 313	Instructional Technology	2	EDU 204	x
EDU 316	Racism and Sexism in Educational Institutions	3		
EDU 319	Classroom Climate Management Secondary	1		
EDU 324	Fundamentals of Secondary Education	2		
EDU 325	Educational Assessment Secondary	2		
EDU 330	Teaching Science in Secondary School	3		
EDU 393	Secondary Field Experience I	2		
EDU 396	Secondary Field Experience II	2		
EDU 496	Clinical Experience Secondary	12		
EDS 324	Instructional Planning for Inclusive Secondary Classrooms	3		
EDS 360	Students with Exceptionalities in School	3	EDP 203	x
PSY 100	Introduction to Psychology	3	PSY 110	x
CMST 101	Public Speaking	3	COM 181	x
ENG 102	Advanced College Writing	3	ENG 102	x
CHE 120/120L	General Chemistry I and Laboratory	4	CHE 170/175	x
CHE 121/121L	General Chemistry II and Laboratory	4	CHE 180/185	x
CHE 125	Introduction to Chemistry & Biochemistry	1		
CHE 310/310L	Organic Chemistry I and Laboratory	4	CHE 270/275	
CHE 311/311L	Organic Chemistry II and Laboratory	4	CHE 280/285	
CHE 340/340L	Analytical Chemistry and Laboratory	5		
CHE 360	Physical Chemistry I	3		
CHE 361	Physical Chemistry II	3		
CHE 362L	Physical Chemistry Laboratory	2		
CHE 391W	Chemical Information and Writing	3		
CHE 400	Chemistry Seminar	1		
CHE XXX	CHE elective at 300 or above level	3		
MAT 129	Calculus I	4	MAT 175	x
MAT 229	Calculus II	5	MAT 185	x
PHY 211/213 or PHY 220/222	General Physics with Laboratory I and II or University Physics with Laboratory I and II	8-10	PHY 201/202 and PHY 203/204	x
<b>Total NKU Credit Hours:</b>			<b>65</b>	

<b>Total Baccalaureate Degree Credit Hours:</b>	<b>128</b>	
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Graduation from NKU requires that a student successfully complete a minimum of 120 hours in college-level coursework, 45 of which must be earned at the 300/400 level.

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