

# East Central University/Murray State College Articulation Agreement

## Bachelor of Science: Chemistry

### Catalog Year 2017-2018

Associate of Science—Chemistry	Bachelor of Science—Chemistry
<input type="checkbox"/> COL 1211 Academic Success	<input type="checkbox"/> CHEM 3114 Organic Chemistry I
<input type="checkbox"/> ENG 1113 English Comp I	<input type="checkbox"/> MATH 3025 Calculus & Analytic Geometry II
<input type="checkbox"/> HST 1483 U.S. History to 1865 <b>OR</b> HST 1493 U.S. History since 1865	<input type="checkbox"/> --4 Minor or Elective
<input type="checkbox"/> MTH 1513 College Algebra*	<input type="checkbox"/> --4 Minor or Elective <span style="float: right;">17</span>
<input type="checkbox"/> CIS 1113 Computer Applications	<input type="checkbox"/> CHEM 3214 Quantitative Analysis I
<input type="checkbox"/> BIO 1114 Principals of Biology <span style="float: right;">17</span>	<input type="checkbox"/> CHEM 3484 Instrumental Analysis
<input type="checkbox"/> ENG 1213 English Comp II	<input type="checkbox"/> CHEM 4114 Organic Chemistry II
<input type="checkbox"/> GVT 1113 American Federal Government	<input type="checkbox"/> --3-4 Required Chemistry Elective <span style="float: right;">15</span>
<input type="checkbox"/> HWP 1112 Personal Health	<input type="checkbox"/> CHEM 4514 Physical Chemistry I
<input type="checkbox"/> MTH 1613 Plane Trigonometry*	<input type="checkbox"/> CHEM 4213 Biochemistry
<input type="checkbox"/> --4 Humanities Elective <span style="float: right;">15</span>	<input type="checkbox"/> --4 Upper Level Minor or Elective
<input type="checkbox"/> PHY 1114 Physics I*	<input type="checkbox"/> --4 Minor or Elective <span style="float: right;">15</span>
<input type="checkbox"/> CHM 1114 Gen Chemistry I*	<input type="checkbox"/> CHEM 4413 Advanced Inorganic Chemistry
<input type="checkbox"/> MTH 2215 Calculus I w/ Analytic Geometry*	<input type="checkbox"/> --4 Minor or Elective
<input type="checkbox"/> --3 Humanities or Art Elective <span style="float: right;">16</span>	<input type="checkbox"/> --4 Minor or Elective
<input type="checkbox"/> PHY 1214 General Physics II*	<input type="checkbox"/> --4 Upper Level Minor or Elective <span style="float: right;">15</span>
<input type="checkbox"/> CHM 1214 General Chemistry II*	<b>Total Credit Hours</b> <span style="float: right;">62</span>
<input type="checkbox"/> SPC 1113 Fundamentals of Speech	
<input type="checkbox"/> PSY 1113 Intro to Psychology <b>OR</b> SOC 1113 Intro to Sociology <span style="float: right;">14</span>	
<b>Total Credit Hours</b> <span style="float: right;">62</span>	

\* please see chart on second page  
for course equivalencies



**Total Hours Completed: 124**  
**Total Credit Hours Required for BS Degree: 124**

## Bachelor of Science: Chemistry

### Course Equivalency Table

Murray State College	East Central University
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 Gen Chemistry II	CHEM 1214 General Chemistry II
GVT 1113 American Federal Government	PS 1113 United States Government
MTH 1513 College Algebra	MATH 1513 College Algebra
MTH 1613 Plane Trigonometry	MATH 1713 Trigonometry
MTH 2215 Calculus I w/ Analytic Geometry	MATH 2825 Calculus and Analytic Geometry I
PHY 1114 General Physics I	PHYS 1114 General Physics I
PHY 1214 General Physics II	PHYS 1214 General Physics II

#### NOTE:

- PHY 2014 Engineering Physics I and PHY 2114 Engineering Physics II maybe taken in place of PHY 1114 and PHY 1214
- CHEM 3484 Instrumental Analysis is only offered in the Spring semester on even years.
- CHEM 4413 Advanced Inorganic Chemistry is only offered in the Spring Semester on odd years.
- CHEM 3214 Quantitative Analysis I is offered every Spring
- CHEM 4514 is offered every Fall.

Articulated using MSC's A. S in Chemistry.

General Education equivalencies can be found by referring to either the Oklahoma State Regents Transfer Matrix or the ECU Transfer Matrix. Both matrices can be found at [www.ecok.edu](http://www.ecok.edu) by clicking on *Academics* and scrolling

Articulated without a minor. A minor is required, please see an advisor for appropriate courses.

\*\*Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.

#### NOTES:

A student transferring with an Associate degree in Arts or Science from MSC fulfills ECU's general education requirement by transferring his or her credit to East Central University. Transferring credit for general education does not eliminate or otherwise affect any of the following ECU requirements: (1) prerequisites; (2) specific requirements in majors, minors or related work in these areas; or (3) the requirements for teacher certification.

A student must earn at least 40 semester hours in upper-division courses (numbered 3000 or higher). A course taught at MSC may equate in content to an ECU 3000-4000 level course, but it will not be counted as part of the 40 hours of upper level courses.

A student must earn at least 60 semester hours, excluding physical activity courses, at a baccalaureate degree granting