

**APPENDIX 1
ARTICULATION AND TRANSFER TABLE**

Cuyahoga Community College: Associate of Science
Kent State University: Bachelor of Arts in Chemistry

| EQUIVALENCIES CURRENTLY ON THE TRAFNER TABLES | | | |
|--|----------------|---|----------------|
| Cuyahoga Community College | Credits | KENT STATE UNIVERSITY | Credits |
| OTM English Composition | | Kent Core Composition (6 credits) | |
| ENG 1010 College Composition I | 3 | ENG 11011 College Writing I | 3 |
| ENG 1020 College Composition II | 3 | ENG 21011 College Writing II | 3 |
| OTM Mathematics, Statics and Logic | | Kent Core Math/Critical Reasoning (3 credits) | |
| MATH 1530 College Algebra | 4 | MATH 11010 Algebra for Calculus | 4 |
| OTM Arts and Humanities | | Kent Core Humanities or Fine Arts (6 credits) | |
| Numerous course options available* | 6 | | 6 |
| OTM Social and Behavioral Sciences | | Kent Core Social Sciences (6 credits) | |
| | 3 | | 3 |
| Numerous course options available* | 3 | One course in another area of study* | 3 |
| OTM Natural Sciences | | Kent Core Basic Sciences (6 credits) | |
| CHEM 1300/130L General Chemistry I and Lab | 5 | CHEM 10060/10062 General Chemistry I and Lab | 5 |
| CHEM 1310/131L General Chemistry II and Lab | 5 | CHEM 10061/10063 General Chemistry II and Lab | 5 |
| OTM (additional) | | Kent Core Additional (9 credits) | |
| COMM 1010 Fundamentals of Speech | 3 | COMM 15000 Introduction to Human Communication | 3 |
| MATH 1540 Trigonometry | 3 | MATH 11022 Trigonometry | 3 |
| MATH 1610 Calculus I | 5 | MATH 12002 Analytic Geometry and Calculus I | 5 |
| | | College General Requirements | |
| Fulfilled by Physics requirement in major | 3 | Additional OTM approved Science (fulfilled by PHY) | 3 |
| Numerous course options available* | 3 | Additional OTM Social Science | 3 |
| Beginning I Foreign Language | 4 | Elementary I Foreign Language | 4 |
| Beginning II Foreign Language | 4 | Elementary II Foreign Language | 4 |
| *Several options available | | Foreign Language – can be Elementary I & II of a second language or Intermediate I & II of the first language or unique Kent State cultural awareness courses | 6-8 |
| | | | |
| Program Requirements | | Program Requirements | |
| CHEM 2300 Organic Chemistry I** | 5 | CHEM 20481 Basic Organic Chemistry I** | 4 |
| CHEM 2310 Organic Chemistry II** | 5 | CHEM 20482 Basic Organic Chemistry II** | 2 |
| PHYS 1210 College Physics I | 4 | PHY 13001/13021 General College Physics I & Lab | 5 |
| PHYS 1220 College Physics II | 4 | PHY 13002/13022 General College Physics II & Lab | 5 |
| | | | |
| | | PROGRAM REQUIREMENTS TO BE COMPLETED AT KENT STATE UNIVERSITY (no equivalent at Cuyahoga Community College) | |
| | | CHEM 30105 Analytical Chemistry I | 3 |
| | | CHEM 30107 Analytical Chemistry Lab | 1 |
| | | CHEM 30301 Inorganic Chemistry I | 2 |
| | | CHEM 30284 Introductory Biological Chemistry | 4 |
| | | CHEM 40301 Inorganic Chemistry II | 2 |

| | | | |
|--|--|---|-----|
| | | CHEM 40567 Physical Chemistry for Life Sciences | 4 |
| | | CHEM 40568 Elementary Physical Chemistry Lab | 1 |
| | | Upper-division Chemistry Electives | 1-3 |
| | | | |
| | | Upper-division General Electives | 24 |
| | | | |
| | | | |

** Students should select one course that is designated global diversity and one that is designated domestic diversity*

***Students must take both courses at the same institution*

**APPENDIX 2
SUGGESTED SEMESTER SEQUENCE**

Cuyahoga Community College: Associate of Science
Kent State University: Bachelor of Arts in Chemistry

| Course Subject and Title | Credit Hours | Upper Division | Notes on Transfer Coursework to Kent State |
|--|--------------|----------------|---|
| Semester One: [15 Credit Hours] Cuyahoga Community College | | | |
| ENG 1010/101H College Composition I | 3 | | Required for AS and Transfer Module |
| CHEM 1300/130L General Chemistry I and Lab | 5 | | Applied toward AS and Transfer Module; Required for BA |
| Social/Behavioral Elective | 3 | | Required for AS and Transfer Module; Select from Transfer Module courses |
| MATH 1530 College Algebra | 4 | | Required for AS (60 total hours required); Applied toward BA (120 total hours required) |
| Semester Two: [17 Credit Hours] Cuyahoga Community College | | | |
| ENG 1020 /102H College Composition II | 3 | | Required for AS and Transfer Module |
| CHEM 1310/131L General Chemistry II and Lab | 5 | | Applied toward AS and Transfer Module; Required for BA |
| Arts/Humanities Elective | 3 | | Required for AS and Transfer Module; Select from Transfer Module courses |
| MATH 1540 Trigonometry | 3 | | Required for AS (60 total hours required); Applied toward BA (120 total hours required) |
| General Elective | 3 | | Required for AS (60 total hours required); Applied toward BA (120 total hours required) |
| Semester Three: [16-17 Credit Hours] Cuyahoga Community College | | | |
| Foreign Language | 3-4 | | Required for AS and Transfer Module |
| CHEM 2300 Organic Chemistry I | 5 | | Applied toward AS and Transfer Module; Required for BA |
| MATH 1610 Calculus I | 5 | | Applied toward AS and Transfer Module; Required for BA |
| Arts/Humanities Elective | 3 | | Required for AS and Transfer Module; Select from Transfer Module courses |
| Semester Four: [14-15 Credit Hours] Cuyahoga Community College | | | |
| CHEM 2310 Organic Chemistry II | 5 | | Applied toward AS and Transfer Module; Required for BA |
| COMM 1010 Fundamentals of Speech | 3 | | Required for AS and Transfer Module |
| Foreign Language | 3-4 | | Applied toward BA |
| Social/Behavioral Elective | 3 | | Required for AS and Transfer Module; Select from Transfer Module courses |
| 62-64 Total Credit Hours to Graduate with the AS Degree from Cuyahoga Community College | | | |

| Course Subject and Title | Credit Hours | Upper Division | Notes on Transfer Coursework to Kent State |
|--|--------------|----------------|--|
| Semester Five: [16 Credit Hours] Kent State University | | | |
| CHEM 30105 Analytical Chemistry I | 3 | X | Required in major |
| CHEM 30107 Analytical Chemistry Lab | 1 | X | Required in major |
| CHEM 40567 Physical Chemistry for Life Sciences | 4 | X | Required in major |
| PHY 13001 General College Physics I | 4 | | Required in major |
| PHY 13021 General College Physics Lab I | 1 | | Required in major |
| Foreign Language | 3 | | |
| Semester Six: [15 Credit Hours] Kent State University | | | |
| CHEM 30301 Inorganic Chemistry I | 2 | X | Required in major |
| CHEM 30284 Introductory Biological Chemistry | 4 | X | Required in major |
| CHEM 40568 Elementary Physical Chemistry Lab | 1 | X | Required in major |
| PHY 13002 General College Physics II | 4 | | Required in major |
| PHY 13022 General College Physics Lab II | 1 | | Required in major |
| Foreign Language | 3 | | |
| Semester Seven: [15-17 Credit Hours] Kent State University | | | |
| CHEM 40301 Inorganic Chemistry II | 2 | X | Required in major |
| Chemistry Electives | 1-3 | X | |
| Kent Core Social Science | 3 | | Fulfills A&S College General Requirement in Social Science |
| General Electives – Upper Division | 9 | X | |
| Semester Eight: [15 Credit Hours] Kent State University | | | |
| General Electives – Upper Division | 15 | X | |
| 123-127 Total Credit Hours to Graduate with the BS, including transfer coursework, from Kent State University | | | |

Requirements to graduate with the BA degree program: To graduate, students must have minimum 120 credit hours, 42 upper-division credits hours of coursework, a minimum 2.00 major GPA and minimum 2.00 cumulative GPA. They must also fulfill an approved experiential learning experience, a two-course diversity requirement (domestic and global), complete a writing intensive course with a minimum C (2.000) grade. Please be aware of Kent State's residence policy, which can be found in the [Kent State University Catalog](#). More specific graduation requirement information can be found in the Academic Policies section of the Kent State University Catalog (www.kent.edu/catalog).

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It is recommended that students intending to pursue the Bachelor of Arts in Chemistry through Kent State University consult with academic advisors at both Cuyahoga Community College and Kent State University.