CHEMISTRY - B.A.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

Contact Information
• Program Coordinator: Scott Bunge | sbunge@kent.edu | 330-672-9445
• Speak with an Advisor
• Chat with an Admissions Counselor

Fully Offered
• Delivery: In person
• Location: Kent Campus

Examples of Possible Careers*
Chemical technicians
• 2.8% slower than the average
• 68,100 number of jobs
• $49,820 potential earnings

Chemistry teachers, postsecondary
• 4.3% about as fast as the average
• 26,400 number of jobs
• $80,400 potential earnings

Chemists
• 4.7% about as fast as the average
• 86,700 number of jobs
• $79,300 potential earnings

Food scientists and technologists
• 4.4% about as fast as the average
• 14,200 number of jobs
• $73,450 potential earnings

Forensic science technicians
• 14.1% much faster than the average
• 17,200 number of jobs
• $60,590 potential earnings

Natural sciences managers
• 4.8% about as fast as the average
• 71,400 number of jobs
• $137,940 potential earnings

Secondary school teachers, except special and career/technical education
• 3.8% about as fast as the average
• 1,050,800 number of jobs
• $62,870 potential earnings

*Note
Source of occupation titles and labor data is from the U.S. Bureau of Labor Statistics’ Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Description
The Bachelor of Arts degree in Chemistry allows students greater flexibility in choosing electives than the B.S. degree. Although not intended for students planning to become practicing chemists, the B.A. degree program is well suited for those needing a strong chemistry background as preparation for other career opportunities.

The program may be used to meet pre-medicine and pre-dentistry requirements when appropriate courses from the biological sciences are used to fulfill elective hours. However, the B.S. degree in Chemistry, Biochemistry concentration, is strongly recommended for students interested in medical or dental school.

Students in the program have the opportunity to participate in an exchange program with the University of Leicester in England.

Admission Requirements
The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campus to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. Check with a regional campus admissions office to determine application requirements, as they may differ among campuses.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score, minimum 48 PTE score or minimum 100 DET score, or by completing the ESL level 112 Intensive Program. For more information, visit the admissions website for international students.

Transfer Students: For more information, visit the admissions website for transfer students.
**Former Students:** Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar’s website.

**Program Learning Outcomes**

Graduates of this program will be able to:

1. Apply fundamental chemical knowledge as demonstrated by achieving passing grades in general chemistry courses.
2. Comprehend the chemistry that underlies several fields, such as materials, industrial and biological chemistry.
3. Demonstrate skills in basic scientific report writing through laboratory courses.

**University Requirements**

All students in a bachelor’s degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

### Kent Core Requirements

**Kent Core Composition (KCMP)**

6

**Kent Core Mathematics and Critical Reasoning (KMCR)**

3

**Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)**

9

**Kent Core Social Sciences (KSS) (must be from two disciplines)**

6

**Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)**

6-7

**Kent Core Additional (KADL)**

6

**Total Credit Hours:**

36-37

### Program Requirements

**Major Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 10060</td>
<td>GENERAL CHEMISTRY I (KBS)</td>
<td>4-6</td>
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<td>or CHEM 10970</td>
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<tr>
<td>or CHEM 11060</td>
<td>GENERAL CHEMISTRY I BOOST (KBS)</td>
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<td>GENERAL CHEMISTRY II (KBS)</td>
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<tr>
<td>or CHEM 10971</td>
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<td>CHEM 10062</td>
<td>GENERAL CHEMISTRY I LABORATORY (KBS)</td>
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<tr>
<td>or CHEM 10063</td>
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<td>CHEM 20481</td>
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<td>or CHEM 30481</td>
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<td>CHEM 20482</td>
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<td>ANALYTICAL CHEMISTRY LABORATORY I (WIC)</td>
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<tr>
<td>CHEM 30284</td>
<td>INTRODUCTORY BIOLOGICAL CHEMISTRY</td>
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<td>CHEM 30301</td>
<td>INORGANIC CHEMISTRY I</td>
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<td>CHEM 30475</td>
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<td>CHEM 40302</td>
<td>INORGANIC CHEMISTRY II</td>
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<td>CHEM 40567</td>
<td>PHYSICAL CHEMISTRY FOR LIFE SCIENCES</td>
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<td>CHEM 40568</td>
<td>ELEMENTARY PHYSICAL CHEMISTRY LABORATORY</td>
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**Total Credit Hours:**

36-37

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

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**Graduation Requirements**

<table>
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<th>Minimum Major GPA</th>
<th>Minimum Overall GPA</th>
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Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.¹ To complete the requirement, students need the equivalent of Elementary I and II in any language, plus one of the following options²:

1. Intermediate I and II of the same language
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:
   - Intermediate I of the same language
   - ARAB 21401
   - ASL 25421
   - CHINESE 10001
   - MCLS 20001
   - MCLS 20091
   - MCLS 21417
   - MCLS 21420
   - MCLS 22217
   - MCLS 28403
   - MCLS 28404

¹ All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

² Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.