Chemistry

ConocoPhillips Integrated Sciences Building (CPSB), Room 101, (907) 786-1298
www.uaa.alaska.edu/chemistry

Chemistry is the science concerned with substances and their properties, composition and reactions. Recent advances in chemistry have exerted a profound influence on the progress of medicine, agriculture, industry and commerce.

The undergraduate courses in Chemistry offered at UAA are designed primarily to provide a broad knowledge of the field as a part of the program of liberal education offered by the College of Arts and Sciences. They are also designed to provide a substantial foundation in chemistry for students interested in further studies in chemistry or the other sciences, preparation for professional degrees, teaching, or a career in government or industry.

Biochemistry is a more biologically oriented approach to chemistry. During the past 25 years, biochemistry has become a central scientific discipline linking the chemical, physical and biological sciences. By applying the concepts and methods of chemistry to the problems of biology, biochemists have made great progress in explaining life in chemical terms.

High School Preparation

Undergraduate chemistry courses assume appropriate high school preparation. Consult the College of Arts and Sciences list of recommended preparatory courses in all disciplines. The specific coursework which a student must have mastered includes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English</td>
<td>4 years</td>
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<tr>
<td>Mathematics</td>
<td>Algebra (Including complex numbers, logarithms, quadratic functions, inequalities and absolute values plus conic sections)</td>
<td>2 years</td>
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<tr>
<td></td>
<td>Geometry</td>
<td>1 year</td>
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<tr>
<td></td>
<td>Trigonometry</td>
<td>1/2 year</td>
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<tr>
<td>Natural Sciences</td>
<td>Physics (Including mechanics, thermodynamics, electricity and magnetism and optics)</td>
<td>1 year</td>
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It is strongly recommended that students graduating from high school without the preparation indicated above enroll in available preparatory courses during the summer session to make up deficiencies so that they can begin the fall semester with the correct sequence of the freshman chemistry curriculum. Students are reminded that it is imperative to regularly (at least once per semester) consult a departmental advisor to evaluate their progress through the program of study.

Programs of Study

Bachelor of Science

- BS in Chemistry (http://catalog.uaa.alaska.edu/undergraduateprograms/cas/chemistry/bs-chemistry)

Faculty

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