The Department of Chemistry offers the Bachelor of Arts degree program for students who want flexibility in the selection of courses in other fields of science in addition to basic education in chemistry. The B.A. program is designed particularly for students planning to enter the professional health fields, teach in secondary schools, or work in such areas as technical service, patent law, or ecology.

122 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. Please also note that the Organic Chemistry Sequence (CHE 230/231/232/233) will count towards completion of this requirement. See the complete description of College requirements for a Bachelor of Arts degree in the Arts and Sciences section of the 2013-2014 Undergraduate Bulletin.

UK Core Requirements

See the UK Core section of the 2013-2014 Undergraduate Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ........................................... 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ........................................... 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ........................................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
CHE 107 General College Chemistry II ........................................... 3
CHE 111 Laboratory to Accompany General Chemistry II ................. 1

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .......................... 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .......................... 3

VII. Quantitative Foundations
MA 113 Calculus I ................................................................. 4

VIII. Statistical Inferential Reasoning
Choose one course from approved list ........................................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ........................................... 3

X. Global Dynamics
Choose one course from approved list ........................................... 3

UK Core hours ................................................................. 33

Graduation Writing Requirement
CHE 572 Communication in Chemistry
(two semesters required) ....................................................... 2

Graduation Writing Requirement hours: ..................................... 2

College Requirements

I. Foreign Language (placement exam recommended) ................. 0-14

II. Disciplinary Requirements
   a. Natural Science (completed by Major Requirements) ............ 6
   b. Social Science .................................................................. 6
   c. Humanities ..................................................................... 6

III. Laboratory or Field Work (completed by Premajor Requirement)

IV. Electives ............................................................................. 6

College Requirement hours: ................................................... 18-32

Premajor Requirements

*MA 113 Calculus I

or

MA 132 Calculus for the Life Sciences ........................................ 4

MA 114 Calculus II .................................................................. 4

*CHE 105 General College Chemistry I .................................... 4

CHE 107 General College Chemistry II ..................................... 3

*CHE 111 Laboratory to Accompany General Chemistry I ........... 1

CHE 113 Laboratory to Accompany General Chemistry II .......... 2

Premajor hours: ................................................................. 18

Major Requirements

Major Core Requirements

CHE 226 Analytical Chemistry .................................................. 3
CHE 230 Organic Chemistry I ................................................... 3
CHE 231 Organic Chemistry Laboratory I ................................. 1
CHE 232 Organic Chemistry II ................................................ 3
CHE 233 Organic Chemistry Laboratory II ............................... 1
CHE 440G Introductory Physical Chemistry ............................. 4
CHE 441G Physical Chemistry Laboratory ................................. 2
CHE 572 Communication in Chemistry (two semesters) ............. 2

Major Core hours: ............................................................... 19

University of Kentucky is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters, and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or online at www.sacscoc.org for questions about the accreditation of University of Kentucky.
Other Course Work Required for the Major
Chemistry Major Field Options

Choose 21 hours at the 300-500 level with a prefix of ANA, BCH, BIO, CHE, CME, CS, EES, MA, MI, MSE, PAT, PGY, PHA, PHR, PHY, PM, RM, or STA. Credit will not be given for both BCH 401G and CHE 550 or CHE 552. At least 5 of these hours must be in CHE courses; at least 4 hours must be taken outside CHE. Up to 9 hours of CHE 395 are recommended for students having a minimum GPA of 3.0 in CHE courses. Other courses may be approved by the Undergraduate Program Committee. Students working towards teaching accreditation may count 6 hours taken at the 300+ level from the College of Education. A maximum of 9 hours in undergraduate research or reading courses may be counted; such courses require approval of the Undergraduate Program Committee if the courses do not carry the CHE prefix.

From the Physics Department
*PHY 211/213 General Physics
or
*PHY 231/232 General University Physics and
*PHY 241/242 General University Physics Laboratory

Other Major hours: .......................................................... 31

Total Minimum hours
Required for Degree ......................................................... 122

*Any language may be used to satisfy the College Foreign Language requirements – German is recommended.

*Course used towards completion of a UK Core Requirement.

Curriculum for B.A. in Chemistry

Freshman Year

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CIS/WRD 110 Composition and Communication I</td>
<td>3</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>UK Core</td>
<td>3</td>
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Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CIS/WRD 111 Composition and Communication II</td>
<td>3</td>
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<tr>
<td>UK Core</td>
<td>3</td>
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Sophomore Year

First Semester

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
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<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 211 General Physics</td>
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<tr>
<td>STA 210 Making Sense of Uncertainty:</td>
<td></td>
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<tr>
<td>An Introduction to Statistical Reasoning</td>
<td>3</td>
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<tr>
<td>UK Core</td>
<td>3</td>
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Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 226 Analytical Chemistry</td>
<td>3</td>
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<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 233 Organic Chemistry Laboratory II</td>
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<tr>
<td>PHY 213 General Physics</td>
<td>5</td>
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<tr>
<td>A&amp;S Humanities/Social Science</td>
<td>3</td>
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