B.A. Chemistry Pre-Pharmacy Option

Chemistry at EKU
The Department of Chemistry at Eastern Kentucky University provides a strong learning environment enabling students to obtain the necessary foundation of chemical knowledge, laboratory skills, and problem solving skills at levels appropriate for the variety of students we serve. The Department also provides service to the University community, to the chemical profession, and to the larger society, and is committed to engaging in scholarly activities on fundamental and applied problems in chemistry and chemical education.

Preparing for Careers in Pharmacy
The Bachelor of Arts in Chemistry offers students several attractive options including (1) the chemistry option, preparing students for traditional chemistry fields, (2) pre-professional options, which prepare students for the professional schools such as medical, dental or pharmacy programs, (3) combined programs leading to a dual BA/MS degree in chemistry, and (4) chemistry teaching. The pre-pharmacy option is designed to meet the core academic needs of students to give them a competitive advantage in admission to schools of pharmacy. Less focused than the Bachelor of Science Degree in Chemistry, it provides students with the breadth required for modern professional training and includes the requirements that will be required for admission into pharmacy programs. The large number of free electives allows you to tailor your education to best fit your needs for your academic future. By following this highly flexible curriculum, you can be better prepared for the PCAT exam, required for application into pharmacy schools. This flexibility also sets the stage to prepare you for the wide and changing array of employment opportunities for pharmacists today. Besides traditional retail pharmacy, students graduating from pharmacy schools with the PharmD may find positions in hospital pharmacies, working for nursing homes, the insurance industry, military, pharmacy schools in research or teaching, and many other areas.

What To Expect
Students majoring in Chemistry begin their studies taking courses in the mathematics, physical sciences and general education designed to provide a strong base of understanding about the world in which we live. As students progress in their studies, chemistry courses become more prevalent in their semester schedules, and students will learn how to master the skills needed in the chemistry profession. Courses in chemistry emphasize building technical abilities and knowledge, and students are expected to master important principles before progressing. Students are encouraged in their senior year, or earlier, to either participate in independent research projects relevant to biomedical careers, or to pursue a cooperative study through employment at a local pharmacy.

Department Facilities & Student Organizations
Chemistry majors have access modern instructional laboratories and instrumentations in the New Science Building completed in 2011. Students have access to up-to-date synthetic and instrumentation laboratories. They receive direct instruction from faculty and have opportunities to work independently on research projects. Students in the teaching option are especially encouraged to participate in independent projects as this helps to generate a stronger ability to teach science at the secondary level. The department has two student organizations 1) Crime & Chemistry Club (Chemistry & Forensic Majors as well as students planning on teaching) and 2) Caduceus Club (for pre-professional students).

For More Information:
Web: www.chemistry.eku.edu
Email: chemistry@eku.edu
Phone: 859-622-1456
Email: chemistry@eku.edu

Department of Chemistry
4126 New Science Building
Eastern Kentucky University
521 Lancaster Avenue
Richmond, KY 40475-3102
**Curriculum Guide**

**Chemistry (B.A.) Pre-Professional Option**

*(includes Pre-Pharmacy, Pre-Dental, Pre-Optometry, Pre-Pathology Assistant, or Pre-Medical)*

2012-2013

Website: www.chemistry.eku.edu

Email Contact: chemistry@eku.edu

The schedule below is an **EXAMPLE** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

Students in Pre-Professional programs are encouraged to see the Pre-Professional program advisor in NSB Lobby, Rm. 2108, for help with scheduling.

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<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CHE 111</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHE 111L</td>
<td>General Chemistry Lab I</td>
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<tr>
<td>CHE 112</td>
<td>General Chemistry II</td>
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<tr>
<td>CHE 112L</td>
<td>General Chemistry Lab II</td>
</tr>
<tr>
<td>CHE 325</td>
<td>Analytical Chemistry</td>
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<tr>
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<td>Analytical Chemistry Lab</td>
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<tr>
<td>CHE 361</td>
<td>Organic Chemistry I</td>
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<tr>
<td>CHE 361L</td>
<td>Organic Chemistry Lab I</td>
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<tr>
<td>CHE 362</td>
<td>Organic Chemistry II</td>
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<tr>
<td>CHE 362L</td>
<td>Organic Chemistry Lab II</td>
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<tr>
<td>CHE 385</td>
<td>Chemical Literature</td>
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<tr>
<td>CHE 484</td>
<td>Chemistry Colloquium</td>
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<tr>
<td>CHE 570</td>
<td>Biophysical Chemistry I</td>
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Bracketed items must be taken concurrently.

**Pre-Professional Option Requirements**

**Pre-Professional Option Supporting Course Requirements**

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A preparatory course in mathematics (MAT 109) may be required before admission to MAT 124.

**Upper Division Courses**

(All students are required to have a minimum of 42 hrs. upper division courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories).

All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Chemistry majors will fulfill ACCT with: CHE 349 A-N, 495A and/or 495B, 515, or ESE 499. (Credit hours are incorporated into program requirements.)

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**Examples:**

- Pre-pharmacy students are advised to take ECO 230 and co-op credit while pre-medical students are advised to take SOC 131 and research credit.

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**Department of Chemistry**

521 Lancaster Ave.

4126 New Science Bldg.

Richmond, KY 40475

859-622-1456

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