

The Pre-Pharmacy Curriculum at Jefferson Community & Technical College consists of general education and pre-professional courses needed by pre-pharmacy students in order to complete requirements for the pharmacy programs at the University of Kentucky, Sullivan University, and other regional pharmacy schools.

The curriculum is based on the pre-pharmacy requirements of the UK College of Pharmacy, Sullivan University, and other regional schools. It is specifically designed to apply to as many pharmacy schools as possible, and thus may exceed the requirements of individual pharmacy schools in some areas. Jefferson's Pre-Pharmacy advisor consults regularly with UK and Sullivan to ensure that the Pre-Pharmacy Curriculum is up-to-date. Critical courses in the Pre-Pharmacy Curriculum such as physics, chemistry, and biology have been selected to meet or exceed both UK and Sullivan's academic preparation requirements. For students considering a school other than UK or Sullivan, most will find the Pre-Pharmacy Curriculum meets their needs wherever they choose to go. Keep in mind that pharmacy programs both in-state and out-of-state are selective and competitive — you may be required to complete an additional application process or have a specific GPA or PCAT score to gain admittance to those programs.

Mathematics/Statistics courses: Pre-pharmacy students must *begin math courses immediately upon entering Jefferson* and should take a course every semester until they have completed their math and statistics courses.

Recommended **preparatory** mathematics courses (for those not ready for Calculus) -- *Intermediate Algebra (MT 120); College Algebra (MT 150)*.

Recommended **preparatory** mathematics courses for those who have not had any Trigonometry -- *Trigonometry (MT 155)*

Essential Mathematics/Statistics courses:

- Calculus I (MT 175 / MA 113)*
- Statistical Method (STA 291 / ST 291)*

Science courses: Pre-pharmacy students should begin their science courses in their first or second semester, or as soon as they have completed college algebra if they need preparatory math classes.

Recommended **preparatory** science course (for those who need preparatory math and who have never taken physics or chemistry before) -- *Applied Physics (PH 171)*.

Essential Science courses:

- General College Chemistry I (CHE 105)*
 - General College Chemistry II (CHE 107)*
 - General Chemistry Lab I (CHM 105)*
 - General Chemistry Lab II (CHM 107)*
 - Organic Chemistry I (CHE 230)*
 - Organic Chemistry II (CHE 232)*
 - Organic Chemistry Lab I (CHE 231)*
 - Organic Chemistry Lab II (CHE 233)*
 - Zoology with Laboratory (BIO 143)*
- OR**
- Principles of Biology II (BIO 152) and Principles of Biology Laboratory II (BIO 153)*
- Medical Microbiology (BIO 225)*
- OR**
- Principles of Microbiology (BIO 226) and Introductory Microbiology Lab (BIO 209)*
- OR**
- Principles of Microbiology with Laboratory (BIO 227)*

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- Human Anatomy and Physiology I (BIO 137)*
- Human Anatomy and Physiology II (BIO 139)*
- General Physics I (PHY 211)*
- General Physics II (PHY 213)*

General education courses: Pre-pharmacy students should *never* "get the basics out of the way first". Students who take these courses first without taking math and science will find that after a couple of semesters it will be impossible to build a schedule of purely math and science courses. Pre-pharmacy students should take some general education courses each semester, along with their math and science courses.

Essential General Education courses:

- Introduction to College (GE 100)*
- Writing I (ENG 101)*
- Writing II (ENG 102)*
- Basic Public Speaking (COM 181)*
- Social Interaction Course**
- 2nd Social Interaction Course (need two disciplines)*
- Principles of Economics I (ECO 201)*
- Heritage Course**
- Humanities Course**
- Computer Literacy course (CIS 100 or OST 105)*

*One of the Social Interaction, Heritage, or Humanities courses must also satisfy the college Cultural Studies requirement, unless the recommended Spanish is taken.

Other Recommended Courses include *Introduction to Biology (BIO 112)*, which can make it easier to schedule other BIO classes as it eliminates the need for instructor permissions in certain courses, and Spanish courses (*SPA 101 through SPA 202*) as changing demographics in the United States mean that knowledge of Spanish is likely to be an asset to, and will enhance the employability of, any pharmacist. Spanish courses also satisfy the Cultural Studies requirement. Sullivan University requires 12 hours of additional "science or management" courses -- Jefferson's management courses are for two-year degree programs and are not recommended for pharmacy students; pharmacy students should take science courses at Jefferson.

This curriculum can be tailored toward specific schools if the student chooses. Students are cautioned about deviating too much from the curriculum – if you tailor your curriculum for a specific pharmacy school, and then do not succeed in getting into that school, you may find your tailored curriculum does not fit the requirements of other pharmacy schools. *Students should always have a "back-up plan" in the event they do not get into their first choice school.*

For more information about the Pre-Pharmacy Curriculum contact
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Created by Prof. Graney with input from advisors at the University of Kentucky, Sullivan University, and the *KCTCS 2008-2009 Catalog*. The information provided here is believed to be correct at the time of production and represents Prof. Graney's research and work as an Advisor at Jefferson. However, students are ultimately responsible for their own progress towards their goals and should become familiar with the *KCTCS Catalog*, which is the binding authority on all matters regarding academic programs at Jefferson. Last revision October 28, 2008.

www.jefferson.kctcs.edu/pre-pharmacy