ASSOCIATE IN SCIENCE DEGREE

Pre-Pharmacy Curriculum

(Academic Plan Code 5111999000)

JEFFERSON COMMUNITY COLLEGE
A KCTCS Institution

Jefferson Community College offers all you need to complete pre-professional requirements for the pharmacy program at UK and for pharmacy programs at most out-of-state universities. In addition to the general education courses needed by all college students, JCC offers the pre-professional courses required by UK's pharmacy school.

The Pre-Pharmacy curriculum is based on the pre-pharmacy requirements of the UK College of Pharmacy. The Kentucky Council on Postsecondary Education's General Education Block Transfer Policy ensures that the general education courses you take for your Associate in Science degree will transfer as a block to UK. JCC's Pre-Pharmacy advisors consult regularly with the Director of Admissions of UK's College of Pharmacy 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 the UK College of Pharmacy's academic preparation requirements. Regarding out-of-state pharmacy programs--while no curriculum transfer agreements exist between JCC and out-of-state pharmacy schools, the Pre-Pharmacy Curriculum is designed with an eye to the pharmacy programs in states bordering Kentucky. Most students will find the Pre-Pharmacy curriculum meets their needs wherever they choose to go. Keep in mind that pharmacy programs both in- and out-of-state are selective—you may be required to complete an additional application process or have a specific GPA to gain admittance to those programs.

General courses:

- ❑ ENG 101 *Writing I*
- ❑ ENG 102 *Writing II*
- ❑ COM 181 *Basic Public Speaking*
- ❑ Social Interaction Course
- ❑ 2nd Social Interaction Course
- ❑ ECO 201 *Principles of Economics I*
- ❑ Heritage/Humanities/Language Course
- ❑ 2nd Heritage/Humanities/Language Course
  (need one Heritage and one Humanities/Language)
- ❑ Computer Literacy Course

Mathematics courses:

- ❑ MA 110 *Analytical Geometry and Trigonometry* **OR**
  MA/MT 109 *College Algebra* **and** MA 112 *Trigonometry*
  (requirement waived for students who enter JCC ready to take MA 113)
- ❑ MA 113 *Calculus I*

Science courses:

- ❑ CHE 105 *General College Chemistry I*
- ❑ CHE 107 *General College Chemistry II*
- ❑ CHM 105 *General Chemistry Lab I*
- ❑ CHM 107 *General Chemistry Lab II*
- ❑ CHE 230 *Organic Chemistry I*
- ❑ CHE 232 *Organic Chemistry II*
- ❑ CHE 231 *Organic Chemistry Lab I*
- ❑ CHE 233 *Organic Chemistry Lab II*
- ❑ BIO 104 *Animal Biology*
- ❑ BIO 105 *Animal Biology Lab*
- ❑ BIO 208 *Principles of Microbiology*
- ❑ BIO 209 *Introductory Microbiology Lab*
- ❑ BSL 110 *Human Anatomy and Physiology I*
- ❑ BSL 111 *Human Anatomy and Physiology II*
- ❑ PHY 211 *General Physics I*
- ❑ PHY 213 *General Physics II*

Statistics course:

- ❑ STA 291 *Statistical Method*

Because UK requires 70 hrs. of arts and sciences as the basic minimum requirement for admission to the pharmacy program the JCC Pre-Pharmacy Curriculum is a six-semester curriculum. While it is possible to complete the curriculum in two years and 70 hours, it is not recommended for most students. The curriculum can be tailored toward specific programs (e.g., out-of-state) if the student chooses.

On the reverse are sample schedules that illustrate how students might complete the Pre-Pharmacy program and obtain their associate degrees depending on whether they were attending full-time or part-time, and whether they needed preparatory course-work. These schedules are only samples—every student's schedule will be unique.

For More Information contact a JCC Pre-Pharmacy Advisor:

Prof. Chris Graney--Southwest Campus of JCC--(502) 213-7292; Christopher.Graney@kctcs.edu.

Prof. Valerie Riesser--Downtown Campus of JCC--(502) 213-2385; Vale.Riesser@kctcs.edu.

www.jctc.kctcs.edu/pre-pharmacy

KCTCS
Kentucky Community & Technical College System

EDUCATION PAYS

SAMPLE class schedule for pre-pharmacy major (full time student, no preparatory work required):

First Year

First Semester	**Hours**
ENG 101 Writing I	3
Computer Literacy	3
MA 110 Analytic Geometry and Trigonometry	4
BIO 104 Animal Biology	3
BIO 105 Animal Biology Lab	1
Total Hours	**14**

Second Semester	**Hours**
ENG 102 Writing II	3
Heritage/Humanities/Foreign Language	3
ECO 201 Principles of Economics I	3
COM 181 Basic Public Speaking	3
MA 113 Calculus I	4
Total Hours	**16**

Second Year

First Semester	**Hours**
Heritage/Humanities/Foreign Language	3
CHE 105 General College Chemistry I	3
CHM 105 General Chemistry Lab I	2
BSL 110 Anatomy & Physiology I	4
STA 291 Statistical Method	3
Total Hours	**15**

Second Semester	**Hours**
Social Interaction	3
CHE 107 General College Chemistry II	3
CHM 107 General Chemistry Lab II	2
BSL 111 Anatomy & Physiology II	4
Total Hours	**12**

Third Year

First Semester	**Hours**
BIO 208 Principles of Microbiology	3
BIO 209 Introductory Microbiology Laboratory	2
PHY 211 General Physics I (with lab)	5
CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry Lab I	2
Total Hours	**15**

Second Semester	**Hours**
Social Interaction	3
PHY 213 General Physics II (with lab)	5
CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry Lab II	2
Total Hours	**13**

After three years of full-time status, student graduates with an Associate in Science degree from JCC, ready to transfer to a university with a pharmacy program.

Revised 10/3/02--Created by C. Graney & V. Riesser--Jefferson Community College (with assistance from D. Green--UK College of Pharmacy).

SAMPLE class schedule for Pre-Pharmacy major (part time student, preparatory work required in physics and math):

First Year

First Semester	**Hours**
ENG 101 Writing I	3
MAH 083 Intermediate Algebra	3
Total Hours	**6**

Second Semester	**Hours**
ENG 102 Writing II	3
MT 109 College Algebra & Functions	3
ECO 201 Principles of Economics I	3
Total Hours	**9**

Summer Session	**Hours**
COM 181 Basic Public Speaking	3
Computer Literacy	3
Total Hours	**6**

Second Year

First Semester	**Hours**
MA 112 Trigonometry	2
BIO 104 Animal Biology	3
BIO 105 Animal Biology Lab	2
Total Hours	**7**

Second Semester	**Hours**
MA 113 Calculus I	4
PH 171 Applied Physics	4
Total Hours	**8**

Summer Session	**Hours**
Heritage/Humanities/Foreign Language	3
Social Interaction	3
Total Hours	**6**

Third Year

First Semester	**Hours**
PHY 211 General Physics I with Lab	5
CHE 105 General College Chemistry I	3
CHM 105 General Chemistry Lab I	2
Total Hours	**10**

Second Semester	**Hours**
PHY 213 General Physics II with Lab	5
CHE 107 General College Chemistry II	3
CHM 107 General Chemistry Lab II	2
Total Hours	**10**

Summer Session	**Hours**
Social Interaction	3
Heritage/Humanities/Foreign Language	3
Total Hours	**6**

Fourth Year

First Semester	**Hours**
BSL 110 Anatomy and Physiology I	4
CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry Lab I	2
Total Hours	**9**

Second Semester	**Hours**
BSL 111 Anatomy and Physiology II	4
CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry Lab II	2
Total Hours	**9**

Fifth Year

First Semester	**Hours**
BIO 208 Principles of Microbiology	3
BIO 209 Introductory Microbiology Lab	2
STA 291 Statistical Method	3
Total Hours	**8**

After four and a half years of part-time status, student graduates with an Associate in Science degree from JCC, ready to transfer to a university with a pharmacy program. NOTE--the UK pharmacy program generally requires its students to be full time once they have entered the program.