

**UNIVERSITY OF SOUTHERN INDIANA
GENERALIZED PLAN OF STUDY FOR PRE-PHARMACY**

The pharmacy curriculum requires six years of course work that can be taken in a two-year plus four-year format. Two years of pre-pharmacy course work is followed by four years of professional pharmacy courses leading to a Doctor of Pharmacy (Pharm. D.) degree. The two years of pre-pharmacy courses can be completed at the University of Southern Indiana. The four-years of professional courses can be completed in Indiana following competitive admission to the school of pharmacy at either Purdue University or Butler University.

The following curriculum represents a **generalized composite** of prerequisites and recommended courses for Purdue and Butler pharmacy schools. The science, mathematics, and general education requirements for these schools differ. **For their specific requirements you need to contact the pre-pharmacy advisor Dr. Marlene Shaw at (812) 464-1709 in the USI Biology Department.**

TWO YEARS PRE-PHARMACY (GENERALIZED)

<u>YEAR ONE – SEMESTER I</u>		<u>YEAR ONE – SEMESTER II</u>	
Biology 141 (Principles)	4	Biology 151 or 152 (Botany or Zoology)	3
Chemistry 261 (General Chem I)§	4	Chemistry 262 (General Chem II)	4
Math 115 or 118 or 230	3/5	Math 230 (Calc I)	4
English 101 (Rhet & Comp I)	<u>3</u>	English 201 (Rhet & Comp II)	3
	14/16	Social Sciences /Humanities	<u>3</u>
			17
 <u>SUMMER:</u> Biology 121 – 122 (Human Anatomy & Physiology I and II) 6 hrs. Speech 101 3 hrs.			

<u>YEAR TWO – SEMESTER I</u>		<u>YEAR TWO – SEMESTER II</u>	
Biology 375-376 (Microbiology)	5	Biology 334 (Cell)	3
Chemistry 353 (Organic I)	4	Chemistry 354 (Organic II)	4
Math 330 (Calc II)	4	Physics I 175	4
Economics 175/208	<u>3</u>	Humanities/Social Sciences	<u>3</u>
	16		14

§ To enroll in Chem 261 students must have completed Math 111 or 118, or tested into Math 115, 230 or higher. If this prerequisite has not been met, then Chem 261 can be taken in Spring semester and Chem 261 completed during the summer or the following Fall semester. The latter will delay completion of prerequisites for application to schools of pharmacy.

Additional information about the requirements for the school of pharmacy at Purdue University and Butler University are included below. It is important to discuss this information with the pre-pharmacy advisor to be certain that you have course prerequisites and know the proper course sequencing. Note that some pharmacy schools require applicants to take the Pharmacy College Admissions Test (PCAT). Butler University requires the PCAT but Purdue University does not. Information about this test is available from the USI pre-pharmacy advisor and the Psychological Corporation at (800) 622-3231.

USI Pre-Pharmacy advisor: Dr. Marlene Shaw. Call (812) 464-1709. Email: mshaw@usi.edu

**UNIVERSITY OF SOUTHERN INDIANA
PLAN OF STUDY FOR THE PRE-PHARMACY PROGRAM AT PURDUE UNIVERSITY**

The University of Southern Indiana does not grant a degree in pharmacy. However, you may choose to complete the pre-pharmacy requirements for the Purdue University School of Pharmacy in two or more years at USI. The following plan of study is designed for those students who expect to apply for admission to the Purdue University School of Pharmacy. If you decide to apply to other institutions you must adjust your plan of study to include their prerequisites. You need to plan your schedule in consultation with the USI pre-pharmacy advisor, Dr. Marlene Shaw in the Biology Department at (812) 464-1709 or mshaw@usi.edu.

The following study plan represents course evaluations, options, and requirements made in consultation with the Purdue University School of Pharmacy. All required basic science and general education course work must be completed before starting the professional curriculum in the Fall semester. At this time the Pharmacy College Admissions Test (PCAT) is not required by Purdue, although it is by some pharmacy schools.

YEAR ONE – SEMESTER I

Biology 141 (Principles)	4
Chemistry 261 (General Chem I)§	4
Math 115 or 118 or 230	3/5
English 101 (Rhet & Comp I)	<u>3</u>
	14/16

YEAR ONE – SEMESTER II

Biology 151 or 152 (Botany or Zoology)	3
Chemistry 262 (General Chemistry II)	4
Math 230 (Calc I)	4
English 201 (Rhet & Comp II)	<u>3</u>
	14

SUMMER: Biology 121-122 (Human Anatomy and Physiology I and II) – 6 hrs

YEAR TWO – SEMESTER I

Biology 375-376 (Microbiology)	5
Chemistry 353 (Organic I)	4
Math 330 (Calc II)	4
Elective	<u>3</u>
	16

YEAR TWO – SEMESTER II

Biology 334 (Cell)	3
Chemistry 354 (Organic II)	4
Physics 175	4
Economics 175 or 208	<u>3</u>
	14

§To enroll in Chem 261 students must have completed Math 111 or 118, or tested into Math 115, 230 or higher. If this prerequisite has not been met, then Chem 261 can be taken Spring Semester and Chem 262 completed during the Summer or the following Fall semester. The latter will delay completion of prerequisites for application to schools of pharmacy.

Refer to the accompanying document prepared by the Purdue University School of Pharmacy and Pharmacal Sciences for students in the pre-pharmacy program at the University of Southern Indiana. In particular, refer to the section that discusses the application process to the Purdue program.

USI Pre-Pharmacy advisor: Dr. Marlene Shaw. Call (812) 464-1709. Email: mshaw@usi.edu.

UNIVERSITY OF SOUTHERN INDIANA
PLAN OF STUDY FOR THE PRE-PHARMACY PROGRAM AT BUTLER UNIVERSITY

The University of Southern Indiana does not grant a degree in pharmacy. However, you may choose to complete the pre-pharmacy requirements for the Butler University College of Pharmacy in two or more years at USI. The following plan of study is designed for those students who expect to apply for admission to the Butler University College of Pharmacy. If you decide to apply to other institutions you must adjust your plan of study to include their prerequisites. You need to plan your schedule in consultation with the USI pre-pharmacy advisor, Dr. Marlene Shaw at (812) 464-1709 in the Biology Department.

The following study plan represents course equivalencies, options, and recommendations made in consultation with the Butler University College of Pharmacy. All required basic science and general education course work must be completed before starting the professional curriculum in the Fall semester. The Pharmacy College Admissions Test (PCAT) is required and should be taken in October or January. The test fee is ~ \$52. PCAT information is available from the USI pre-pharmacy advisor or the Psychological Corporation at (800) 622-3231. Check for the application deadlines and test locations.

YEAR ONE – SEMESTER I

Biology 121 (Hum Anat & Phys I)	3
Chemistry 261 (General Chem I) ¹	4
Biology 141 (Principles)	4
Speech 101	3
English 101 (Rhet & Comp I)	<u>3</u>
	17

YEAR ONE – SEMESTER II

Biology 122 (Hum Anat & Phys II)	3
Chemistry 262 (General Chem II)	4
Biology 151 or 152 (Botany or Zoology)	3
English 105 (Intro Lit)	3
Psychology 201 (Intro)	<u>3</u>
	16

SUMMER: History 111 (World Civ I) - 3 hrs.
 Am History 101 or Philosophy 200 – 3 hrs.

YEAR TWO – SEMESTER I

Biology 375-376 (Microbiology)	5
Chemistry 353 (Organic I)	4
PE 281 (Personal Health Science)	3
Humanities 211 (West Trad: Hum I), or	
Humanities 212 (West Trad: Hum II), or	
Humanities 221 (West Trad: Art Hist I), or	
Theater 121 (Intro)	<u>3</u>
	15

YEAR TWO – SEMESTER II

Biology 334 (Cell)‡	3
Chemistry 354 (Organic II)‡	4
Psychology 302 (Statistics)	3
History 112 (World Civ II), or	
Anthropology 101 (Intro), or	
Geography 330 (World Geog)	3
PE (Activity)	<u>1</u>
	14

Notes:

- 1) Math 115 or 230 placement is required for General Chemistry 261,
- 2) Either Biology 141 or 334 will meet Butler's requirement for Intro to Cell Biology (no lab required).
- 3) ‡The College of Pharmacy requires a course in biochemistry PX313 (no lab). This requirement can be met at USI with Biochemistry 431 (prerequisites Organic Chemistry 353 and 354, **or** Biology 434 Macromolecules and Metabolism (prerequisites Cell Biology 334, Organic Chemistry 354). Biochemistry PX313 (prerequisites, two semesters Organic Chemistry) may be taken at Butler University during the summer prior to beginning the professional curriculum.

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PURDUE UNIVERSITY
School of Pharmacy

Plan of study for the Pre-Pharmacy Program at the University of Southern Indiana
Evansville, Indiana

General Chemistry	General Chemistry I	CHM	261
	General Chemistry II	CHM	262
Organic Chemistry	Organic Chemistry I	CHM	353
	Organic Chemistry II	CHM	354
Biology*	Principles of Biology I	BIOL	141
	Botany or Zoology	BIOL	151 or 152
Microbiology	Microbiology	BIOL	375
	Microbiology Lab	BIOL	376
Anatomy and Physiology	Human Anatomy & Physiology I	BIOL	121
	Human Anatomy & Physiology II	BIOL	122
Calculus	Calculus I	MA	230
	Calculus II	MA	330
Composition	Rhetoric & Composition I	ENGL	101
	Rhetoric & Composition II	ENGL	201
Physics	General Physics I	PHYS	175
Economics	Fundamentals of Economics or	ECON	175 or 208
	Microecon		

* Completion of BIOL 334 (Cell Biology) is strongly recommended.

The University of Southern Indiana does not grant a degree in pharmacy. Two years of pre-pharmacy may be completed on this campus. This plan of study is specifically designed for students preparing to apply for admission to the Purdue University School of Pharmacy.

Before applying for admission to Purdue University School of Pharmacy and Pharmacal Sciences, you should contact the Office of Student Services (765) 494-1357, oss@pharmacy.purdue.edu for current and accurate information. You must use the Pharmacy College Application Service (www.pharmcas.org) to make application. Purdue does not require the Pharmacy College Admission Test (PCAT).

This document has been prepared with the assistance of Dr. Marlene Shaw, Department of Biology, University of Southern Indiana, (812) 464-1709, mshaw@usi.edu.

The information contained in this document is subject to change as a result of action by federal and/or state governments, the trustees of Purdue University, the administration of Purdue University and the faculty of the School of Pharmacy.

Revised: August 2006

GENERAL ELECTIVES

This is a requirement for graduation not admission. General education electives may be started or completed on this campus. Students must select a minimum of one (1) course from each of the following course groupings. This policy is effective starting Fall 2003 (first pre-pharmacy year). Consult your advisor for more information.

All courses must have a minimum of 3 credit hours.

Humanities and Behavioral Sciences (Group 1)

Audiology & Speech Sciences
Child Development & Family Sciences
Communication
English*
Foreign Language & Literatures
Health and Kinesiology
History
Interdisciplinary Studies – Liberal Arts
Philosophy
Political Science
Psychology
Sociology & Anthropology
Visual & Performing Arts

Business and Administration (Group 2)

Agricultural Economics
Consumer Sciences & Retailing
Economics**
Hospitality & Tourism Management
Management
Organizational Leadership & Supervision

Science and Technology (Group 3)

Agronomy	Astronomy
Biochemistry	Biology
Botany	Chemistry
Computer Science	Computer Technology
Earth & Atmospheric Sciences	Entomology
Food Sciences	Foods & Nutrition
Forestry & Natural Resources	Horticulture
Mathematics	Physics
Statistics	

*Excluding English Composition core requirements

**Excluding Economics core requirement