

Advising Course Plan - Health Sciences Major - Pharmacy Interest

Pharmacy Interest with Chemistry minor

Those interested in pursuing a career in Pharmacy (e.g., a Doctor of Pharmacy, PharmD) should plan on also pursuing a Chemistry minor, in addition to a common core of prerequisite course work (*). Some requirements may differ from the ones below, depending on the Pharmacy program in which you may be interested, so please make sure to look at various graduate program requirements for different universities. You may also be required to have a foreign language, depending on the Pharmacy graduate program. Therefore, you will want to begin looking at universities' requirements during your 1st year as an undergraduate to better prepare you for graduate programs. There are two possible paths: the second one involves both Biology and Chemistry in the first year, which may better prepare you, though it may also be more challenging. Of course, make sure you satisfy all the Health Sciences (HLSC) major requirements listed in the course catalog (the plan below should allow you to do this).

Students will apply to pharmacy programs using the Pharmacy College Application Service (PharmCAS):

<http://www.pharmacas.org/>

Before applying, students will need to take the PCAT standardized exam:

http://www.pearsonassessments.com/postsecondaryeducation/graduate_admissions/pcat.html

Option 1

First Year		Units
Fall		
BIOL 141P ^{1,*}	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics	1
CHEM 141P [*]	General Chemistry I	1
FSEM 100 ¹	First Year Seminar (unless transfer student)	1
HLSC 119V	Health and Wellness	1
Term Units		4
Spring		
BIOL 142P ^{1,*}	Introductory Biology: Animal and Plant Physiology	1
CHEM 142P [*]	General Chemistry II	1
General Education requirement ¹		1
MATH 141Q ²	Calculus I with Analytic Geometry	1
Term Units		4
Second Year		
Fall		
MATH 141Q should be taken during the fall if it has not yet been taken in First Year		
HLSC 201 ¹	Anatomy Physiology I	1
CHEM 201 ^{1,*}	Organic Chemistry I (IHSC elective)	1
BIOL 301 ¹	Microbiology (IHSC elective)	1
COMM 108	Public Speaking	1
Term Units		4
Spring		
HLSC 202 ¹	Anatomy and Physiology II	1
CHEM 301 ^{1,*}	Organic Chemistry II (IHSC elective)	1

General Education Requirement (A, B, H, L, S course) ¹		1
PSYC 101S ^{1,*}	Introduction to Psychology	1
Term Units		4
Summer		
Take the PCAT exam in preparation for Pharmacy school applications - by the end of summer before Fourth Year.		
Term Units		0
Third Year		
Fall		
Junior Seminar must be taken during this year.		
PHYS 121P or 141P [*]	College Physics I University Physics I	1
CHEM 204 [*]	Biochemistry I	1
Junior Seminar ^{1,*}		1
Elective		1
Term Units		4
Spring		
HLSC 498 ¹	Senior Research Proposal	1
PHYS 122P or 142P [*]	College Physics II University Physics II	1
HLSC 200V ¹	Introduction to Nutrition Science	1
MATH 125Q	Introduction to Mathematical and Statistical Modeling	1
Term Units		4
Fourth Year		
Fall		
HLSC 499 ¹	Senior Research Project	1
PHIL 316V	Bio-Medical Ethics (or equivalent; IHSC elective; or other Personal & Social Responsibility course (R, E, W, D, J course))	1
Chemistry minor requirement: CHEM 200+ level course ²		1
PUBH 140V	Introduction to Public Health	1
Term Units		4
Spring		
HLSC 411 ¹	Exercise Physiology	1
General Education Requirement (A, B, H, L, S course) ¹		1
General Education Requirement (A, B, H, L, S course) ¹		1
SOCI 101S	Understanding Society: An Introduction to Sociology (recommended; or Elective)	1
Term Units		4

Total Unit: 32

¹ Required for HLSC major.

² Excluding CHEM 285, CHEM 385, CHEM 485, CHEM 498, CHEM 499.

* Common core of prerequisite course work.

Option 2

First Year		Units
Fall		
BIOL 141P ^{1,*}	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics	1
PSYC 101S ^{1,*}	Introduction to Psychology	1
FSEM 100 ¹	First Year Seminar (unless transfer student)	1
HLSC 119V	Health and Wellness	1
Term Units		4
Spring		
BIOL 142P ^{1,*}	Introductory Biology: Animal and Plant Physiology	1
COMM 108	Public Speaking	1
General Education Requirement		1

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MATH 141Q [†]	Calculus I with Analytic Geometry	1
Term Units		4

Second Year

Fall

MATH 141Q should be taken during the fall if it has not yet been taken in First Year.

HLSC 201 ¹	Anatomy Physiology I	1
CHEM 141P [†]	General Chemistry I	1
BIOL 301 [*]	Microbiology (IHSC elective)	1
General Education Requirement (A, B, H, L course) ¹		1
Term Units		4

Spring

HLSC 202 ¹	Anatomy and Physiology II	1
CHEM 142P [†]	General Chemistry II	1
General Education Requirement (A, B, H, L course) ¹		1
General Education Requirement (A, B, H, L course) ¹		1
Term Units		4

Summer

Take the PCAT exam in preparation for Pharmacy school applications - by the end of summer before Fourth Year.

Term Units		0
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Third Year

Fall

Junior Seminar must be taken during this year.

PHYS 121P or 141P [†]	College Physics I University Physics I	1
Junior Seminar ^{1,*}		1
CHEM 201 ^{1,*}	Organic Chemistry I (IHSC elective)	1
Elective		1
Term Units		4

Spring

HLSC 498 ¹	Senior Research Proposal	1
PHYS 122P or 142P [†]	College Physics II University Physics II	1
CHEM 301 ^{1,*}	Organic Chemistry II (IHSC elective)	1
Term Units		3

Fourth Year

Fall

HLSC 499 ¹	Senior Research Project	1
PHIL 316V	Bio-Medical Ethics (or equivalent; IHSC elective; or other Personal & Social Responsibility course (R, E, W, D, J course))	1
CHEM 204 [*]	Biochemistry I	1
HLSC 200V ¹	Introduction to Nutrition Science	1
Term Units		4

Spring

HLSC 411 ¹	Exercise Physiology	1
Chemistry minor requirement: CHEM 200+ level ²		1
PUBH 140V	Introduction to Public Health	1
SOCI 101S	Understanding Society: An Introduction to Sociology (recommended; or General Education Requirement (A, B, H, L course))	1
Term Units		4

Total Unit: 31

¹ Required for HLSC major.

² Excluding CHEM 285, CHEM 385, CHEM 485, CHEM 498, CHEM 499.

* Common core of prerequisite course work.