

Pre-Pharmacy

Associate in Science

Total Required Credits for Degree: minimum of 64
General Education Core Curriculum: minimum of 37
Additional Math/Science: 10 to 15
Additional Coursework: 12 to 17

Code: 8164

Note: Consult a faculty adviser or the Counseling and Advising office before planning coursework.

About the Program

Pharmacy includes professionals who provide a broad spectrum of pharmacy-related patient care services in community settings such as drug stores, hospitals, nursing homes and extended-care facilities. Students first must complete a two-year program at College of DuPage before entry into a college of pharmacy. The pharmacy programs require an additional three years of study leading to a bachelor's degree in pharmacy or four years resulting in a Pharm.D. degree. The total period of full-time academic work is five to six years. See program notes below.

Program web site: www.cod.edu/biology

First Semester Possibilities

Students enrolled in a minimum of 12 credits are considered full-time students. The following courses are examples of possible choices for the first semester of study:

Course	Credits
Biolo 1151 Principles of Biological Science.....	5
Chemi 1551 Principles of Chemistry I	5
Engli 1101 English Composition I	3
Math 1431 Precalculus I	5
General Education	3 to 5

Program Notes

1. The pharmacy schools at Chicago State University (CSU), Midwestern University (MU), Southern Illinois University (SIU), and University of Illinois-Chicago (UIC) have a "2+4" program. Two years of study at College of DuPage are followed by four years of study at the pharmacy school. On completion of these six years, a student graduate will earn a doctorate degree in pharmacy. Prospective students should check with the pharmacy school of their choice to see what prerequisite coursework is required before applying for admission to the pharmacy program.
2. Prerequisite coursework typically includes one year of life sciences with laboratory (Biology 1151, 1152), one year of inorganic chemistry (Chemistry 1551, 1552), one year of organic chemistry (2551, 2552), and math to include calculus and possibly a course in statistics (Mathematics 1635). Make sure to investigate the prerequisite math requirements of each pharmacy school. Calculus

requirements include Mathematics 2231 and possibly 2232. The pharmacy school may allow Mathematics 2134 to be taken in place of Mathematics 2231 and 2232).

3. Requirements for physics as well as anatomy and physiology differ among schools. Physics 1201 and Anatomy and Physiology 1551 (or 1571) are required at CSU, MU, SIU, and UIC. In addition, Physics 1202 is required by CSU, SIU, and UIC, while Anatomy and Physiology 1552 (or 1572) is required by SIU and UIC.

General Education Core Curriculum

Each candidate for an A.S. degree shall satisfactorily complete a minimum of 37 General Education credits. General Education credit may not be earned using a Satisfactory/Fail grade.

Use the *Student Planning Worksheet* or consult a list of General Education categories and courses for this degree to decide what needs to be taken. Links can be found on the Pre-Pharmacy online program guide (www.cod.edu, click on "Academics" and then choose this program from the drop-down menu).

Under the specified General Education headings below, the following courses are recommended for the Pre-Pharmacy Associate in Science degree:

Communication: 9 credits

Written: 6 credits

Oral: 3 credits

Required courses: English 1101 and 1102 (grade of "C" or higher required); Speech 1100 (grade of "C" or higher required)

Physical/Life Sciences: 7 to 10 credits

Select at least one course from Life Sciences and one course from Physical Sciences. At least one course must have a laboratory component.

Recommended courses: Anatomy and Physiology 1551*, 1552 or 1571*, 1572; Biology 1151, 1152; Chemistry 1551*, 1552, 2551, 2552; and Physics 1201*, 1202.

See Program Notes 2 and 3.

(*conforms to IAI standards)

Mathematics: 3 to 5 credits

Recommended courses: Mathematics 1431, 2134; or Mathematics 1431, 1432, 2231, 2232

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Humanities and Fine Arts: 9 credits

Select at least one course from Humanities and at least one course from Fine Arts.

Please note: Only one foreign language course may apply for general education credit. Additional foreign language courses will count as elective credit toward your degree.

Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.

Recommended courses: Two courses in foreign language, history or philosophy; one course in art, music or theater. Studio courses in art or music may not meet pharmacy prerequisites.

Social and Behavioral Sciences: 9 credits

Courses must be selected from at least two disciplines. See note under Humanities/Fine Arts regarding History courses.

Recommended courses: Economics 2201; two courses in any Social/Behavioral Science.

Additional Math/Science Requirements

Physical and Life Sciences

Select two courses up to a maximum of 10 credits.

Recommended courses: See Program Notes 2 and 3.

Mathematics

Select one course up to a maximum of 5 credits.

Recommended courses: Choose from list in the *Student Planning Worksheet*.

Additional Coursework

Students are strongly advised to consult with a faculty adviser and/or the transfer institution in selecting 12 to 17 General Elective credits. Students can earn a maximum of 10 credits in technical/occupational areas (the transferability of these courses needs to be validated with a transfer institution).

Additional A.S. Degree Requirements

These credits can count as either General Education Core Curriculum (in the Humanities category or the Social and Behavioral Sciences category) or as General Elective credit, whichever applies.

Human Relations: Complete one course.

Global/Multicultural Studies or Contemporary Life Skills:

Complete one course.

Recommended courses: Choose from list in the *Student Planning Worksheet*.

IAI (Illinois Articulation Initiative)

The IAI General Education Core Curriculum is based on a package concept, in which a package of courses is used to meet the receiving institution's lower-division general education requirements. The entire IAI package must be completed to ensure full articulation.

Always seek the advice of an academic adviser at College of DuPage or an admissions counselor at a transfer institution when choosing major courses. For additional information, check the web site at: www.itransfer.org or the College of DuPage transfer guide web site at home.cod.edu/academics/transferinfo.

Advisers

If you are considering this program as an area of study, consult with an adviser in this field:

	Location	Phone
Mary Newberg	HS 3331	(630) 942-4066
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Tom Ruehlmann	HS 2327	(630) 942-3064
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Areas of interest: Biology, Anatomy and Physiology, Zoology		