

Pre-Pharmacy

PharmD Program Prerequisites

A specific major is not required for admission into a PharmD program. Students are advised to major in a discipline they are both most interested and able to excel in.

The following courses are required for admission to most PharmD programs:

<i>Prerequisites for the University of Iowa College of Pharmacy (2016 Cycle)</i>	<i>Course Equivalent at Cornell College</i>
4 semester hours of Rhetoric	ENG 111 (1 st Year Writing Course)
4 semester hours of Principles of Chemistry I	CHE 121 (Chemical Principles I)
4 semester hours of Calculus	MAT 121 (Calculus of a Single Variable)
3 semester hours of Statistics	STA 201 (Statistical Methods I)
General electives	Various
4 semester hours of Principles of Chemistry II	CHE 122 (Chemical Principles II)
4 semester hours of Principles of Biology I	BIO 141 (Foundations: Cellular Biology)
4 semester hours of Principles of Biology II	BIO 142 (Foundations: Organismal Biology)
4 semester hours of General Physics (<i>A high school Physics course satisfies this prerequisite</i>)	PHY 141 (Introductory Physics I)
3 semester hours of Organic Chemistry	CHE 225 (Organic Chemistry I Lecture)
4 semester hours of Microeconomics	ECB 102 (Microeconomics)
3 semester hours of Organic Chemistry II	CHE 326 (Organic Chemistry II Lecture)
3 semester hours of Human Anatomy	BIO 329 (Human Anatomy & Physiology I)
3 semester hours of Human Physiology	BIO 330 (Human Anatomy & Physiology II)
3 semester hours of Biochemistry	BIO 334 (Biochemistry)
3 semester hours of Microbiology	BIO 326 (Microbiology)

The following courses at Cornell College are prerequisites for some of the aforementioned PharmD prerequisites and/or are recommended for students pursuing PharmD programs:

BIO 315 (Genetics)

CHE 327 (Organic Chemistry Laboratory)

Note: Each PharmD program has a specific list of prerequisites you must complete to be considered for admission. Most PharmD programs require additional courses than those specified in the table above. Visit both the [ACCP Pharmacy School Admission Requirements](#) website and PharmD program websites regularly to explore program-specific prerequisites to ensure you've satisfy courses needed before applying. Be sure your Faculty Advisor is aware that you are Pre-Pharmacy. It is strongly recommended that you meet with your Faculty Advisor and [Dimensions staff](#) regularly to ensure you are meeting the requirements for both your major and PharmD programs in the proper sequence.

AP Credit

PharmD programs have different rules when it comes to accepting AP credit as fulfillment of a prerequisite. If you enter Cornell College with AP credit, closely check the requirements of the PharmD programs of which you intend to apply.

Community College Credit

Most PharmD programs prefer that applicants take all prerequisites at a 4-year institution. Students interested in earning credit at a community college should meet with their Faculty Advisor and the Associate Director of Dimensions *before* registration.

*Title = level of education and job title. Example: Danielle D'Ambrosio, MA, Associate Director of Dimensions.

Cornell College Pre-Physician Assistant Sample 4-Year Timeline*

Year in School	Cornell College Course Satisfying Prerequisite	Additional Information
First Year	FYS CHE 121 CHE 122 BIO 141 BIO 142 ENG 111 1 additional English writing course	Your top priorities are becoming acquainted with your new surroundings, living arrangements, and course requirements. Students are strongly encouraged to get involved in co-curricular activities they are interested in or passionate about. (Activities do not all need to be medical-related.) New students should meet with the Associate Director of Dimensions at least once during their first year on campus. <ul style="list-style-type: none"> • Many students will begin exploring opportunities to shadow healthcare professionals, volunteer in the community, and take part in student organizations. Hours spent in co-curricular activities should be tracked for the PharmCAS. • Students are encouraged to start thinking about summer as early as October**. • Students should review professional resources from this document and the Dimensions website to familiarize themselves with medicine and the medical field. • Attend relevant Dimensions Pre-Health Workshops.
Second Year	PSY 161 STA 201 CHE 225 CHE 326 CHE 327 BIO 205 MAT 121	<ul style="list-style-type: none"> • Seek opportunities to work closely with faculty members on research and other projects outside of class. Narrow down co-curricular involvement to experiences that are most meaningful to you and that you are most passionate about (even if it's not healthcare related.) Move up to leadership positions or take on more responsibility in co-curricular activities. • Start looking at medical schools more closely to identify unique requirements of schools you are interested in. Read in detail about the medical school application cycles, the PCAT, and the Cornell College Health Professions Committee. • Attend relevant Dimensions Pre-Health Workshops.
Third Year	CHE 202 PHY 141 CHE 334 BIO 329 PSY 282 SOC 101 BIO 315	<ul style="list-style-type: none"> • Continue to work up to leadership positions or take on more responsibilities in co-curricular activities. Continue to shadow in the medical field and volunteer in the community. • Be sure you've completed at least the minimum amount of shadowing hours required by medical schools you plan to apply to. • Register for PCAT and prepare by taking several full-length practice exams. (Dimensions can help you identify PCAT prep resources.) Students should sit for the PCAT in April, May or June of their third year on campus if they plan to apply to start a medical school immediately following graduation. • Prepare for Health Professions Committee if you intend to enter pharmacy school immediately following graduation. Application deadlines should be verified with the Associate Director of Dimensions before the end of your junior year. (Example: Health Profession Committee applications are due summer 2016 if you hope to start pharmacy school fall 2017.) • Attend relevant Dimensions Pre-Health Workshops.
Fourth Year	BIO 326 BIO 330 ECB 102 Complete graduation major/minor requirements.	<ul style="list-style-type: none"> • Complete secondary applications and on-campus interviews. • Attend relevant Dimensions Pre-Health Workshops.

*You should always begin with the course most aligned with your current ability. It is better to start a few courses back and earn an “A” than to jump right into the prerequisite course and earn a “B” or “C”. This sample timeline includes many required, recommended, and prerequisite courses for medical school. Always consult specific PharmD program prerequisites and with your Faculty Advisor before making course selections.

****Pre-Pharmacy students hoping to enter pharmacy school immediately after graduation are strongly encouraged to use their summers wisely in preparation for PharmD programs. This includes conducting research, volunteering in the community, shadowing or interning in the field of medicine, and/or working in the healthcare field.**