

Pacific Union College

2006-07

Pre-Pharmacy for Admission to Loma Linda University

INFORMATION ABOUT THIS DEGREE

General Areas of Service: Pharmacists dispense drugs prescribed by physicians and other health practitioners. They give advice on the selection, dosages, interactions, and side effects of medications. Pharmacists in community pharmacies answer customers' questions about prescription drugs, such as possible adverse reactions and interactions. Pharmacists in hospitals and clinics dispense medications and advise the medical staff on the selection and effects of drugs. In 1994, 60% of all pharmacists worked in community pharmacies, 25% worked in hospitals, and the rest worked for health maintenance organizations, clinics, home health care services, nursing homes, and the Federal Government.

Professional Training: To obtain a license to practice pharmacy, one must graduate from an accredited college of pharmacy, pass a State examination, and serve an internship under a licensed pharmacist. At least 5 years of study beyond high school are required to obtain a B. S. degree in pharmacy. A doctor of pharmacy degree normally requires at least 6 years.

The B.S. degree in pharmacy is generally acceptable for most positions in community pharmacies; however, a growing number of hospital employers prefer a pharmacist with a Pharm.D. degree. A masters or Ph.D. degree in pharmacy or a related field is usually required to do research, and a Pharm.D. with additional residency or fellowship training, masters, or Ph.D. is usually necessary for faculty positions.

Job Outlook: Employment of pharmacists is expected to grow as fast as the average for all occupations through the year 2005, due to the increased needs of a larger and older population and greater use of medications. As in other occupations, most job openings will result from the need to replace pharmacists who leave the profession.

Earnings: The median weekly earnings of full-time, salaried pharmacists were \$954 in 1994. Half earned between \$757 and \$1,111. According to a survey by Drug Topics magazine, average base salaries of full-time salaried pharmacists were \$53,600 per year in 1994. Salaries were highest in the West. Many pharmacists also receive compensation in the form of bonuses, overtime, and profit-sharing.

Source: *Occupational Outlook Handbook*

For More Information

American Association of Colleges of Pharmacy
1426 Prince Street
Alexandria, VA 22314

National Association of Boards of Pharmacy
700 Busse Highway
Park Ridge, IL 69968

For more information about this profession visit the
Counseling and Career Center at Pacific Union College

COURSE REQUIREMENTS FOR ADMISSION

A new School of Pharmacy is being developed at Loma Linda University. Until specific academic requirements for admission have been developed, students are advised to follow a course of study common to admission to other schools of pharmacy. The following information may be helpful:

University of Southern California

College English, 2 quarters

Speech, 1 course

Social and Behavioral Sciences, 18 quarter units chosen

from psychology, economics, anthropology, geography, sociology, and political science. Must include one course in general psychology and one course in economics.

Humanities, 9 quarter units including a minimum of two courses in literature, philosophy, history, ethics, foreign language or fine arts.

Mathematics and Physical Sciences: 28 quarter units including the following:

Calculus (including differential and integral), 2 quarters

General Chemistry (including inorganic and qualitative analysis), 3 quarters

Organic Chemistry, 3 quarters

Biological Science: one-year course, totaling at least 12 quarter units, in general biology (excluding human anatomy, human physiology, botany, and microbiology)

Electives to total 90 overall quarter units

University of California, San Francisco

College English, 8 quarter units

Chemistry including the following:

General Chemistry, 12 quarter units

Quantitative Analysis, 3 quarter units

Organic Chemistry, 8 quarter units

Physics (including electricity and magnetism), 8 quarter units

Calculus, including analytic geometry, 8 quarter units

General Biology including zoology, 10 quarter units

Electives to total 90 overall quarter units

University of the Pacific

Calculus, one quarter

Physics, one year of high school physics with lab or one quarter of college physics with lab

Chemistry

General Chemistry, 12 quarter units

Organic Chemistry, 12 quarter units

Biological Science, must include zoology

Liberal Studies, 42 quarter units including

College English, 8 quarter units

Public Speaking, 4 quarter units

Psychology, 4 quarter units

Economics, 4 quarter units

General Education, one course from each non-science category of the University G. E. Program.

RECOMMENDED COURSES FOR ADMISSION

Loma Linda University will be offering a program leading to the doctor of pharmacy degree. Preliminary plans indicate that the minimum for admission will be two years of college including certain specified courses; however, students with more than two years will be given preference. As soon as pre-requisites for admission to the School of Pharmacy are available, they will be made known to all students who have chosen pharmacy as a vocational preference. In the meantime the following guidelines may be helpful. Please see the School of Pharmacy website at <http://www.llu.edu/llu/sps/index.html>.

Students are advised to take the following:

1. Science-Math courses commonly listed as a pre-requisite to admission to schools of pharmacy in California:

BIOL 111, 113	Biological Foundations	10
CHEM 111-12-13	General Chemistry	15
CHEM 371-72-73	Organic Chemistry	12
MATH 131	Calculus	4
PHYS 111-12-13	General Physics	12

2. Religion (Minimum, 8 quarter hours or 4 hours per year of attendance at a Seventh-day Adventist college)

3. Communication Skills

COMM 105	Speech Communication (3) <i>(or COMM 226 Public Speaking)</i>	
ENGL 101-102	College English (4-4)	
	Computer Proficiency	

For flexibility in career choices students are encouraged to choose the remaining hours from courses that apply to general education.

The following are recommended:

1. Humanities: Art, music, literature, philosophy, history, foreign language

The following courses are recommended:

ART 105	History of Western Art (4)	
ENGL 301	Great Books (4)	
ENGL 330	Literature for Children (4)	
ENGL 355	Amer. Colonial & Romantic Periods (4)	
ENGL 356	American Realism & Naturalism (4)	
HIST 101-102	History of World Civilizations (4-4)	
HIST 134-135	History of the United States (4-4)	
MUHL 105	Survey of Music (3)	
PHIL 101	Introduction to Philosophy (4)	
	Any foreign language	

2. Social Sciences: Economics, geography, political science, psychology, and sociology

The following courses are recommended:

ANTH 124	Cultural Anthropology (4)	
ECON 261	Prin. of Economics—Macroeconomics (4)	
ECON 265	Prin. of Economics—Microeconomics (4)	
GEOG 210	World Regional Geography (3)	

PLSC 124	Introduction to American Government (3)	
PSYC 121	General Psychology (4)	
PSYC 234	Human Development (4)	
SOCI 121	Introduction to Sociology (4)	
SOCI 214	The Family (4)	

3. Health and Wellness

Select at least one course from the following:

FDNT 235	Nutrition (3)	
HLED 162	Fitness for Life (2)	
HLED 166	Health Education (2)	
HLED 169	Current Health Concerns (2)	

A minimum of two exercise science activity courses

SAMPLE TWO-YEAR PROGRAM

This sample curriculum is designed to show you how a program may be constructed. Your advisor will help you design your program of studies.

First Year	A	W	S
College English	-	4	4
General Chemistry	5	5	5
Biological Foundations	5	-	5
Religion	2	2	-
Exercise Science	1	1	-
Speech	3	-	-
Anthropology	-	4	-
Electives	-	-	2
	16	16	16

Summer

General Physics 12
(Recommendation: If General Physics is required it may be wise to take it during the summer because of the heavy science load during the second year.)

Second Year	A	W	S
Organic Chemistry	4	4	4
Calculus	4	-	-
Religion	2	2	-
Health	-	-	2
Humanities/Social Sciences/Electives	6	10	10
	16	16	16

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