

PRE-PHARMACY AND DOCTOR OF PHARMACY

Pharmacy Mission

Our mission is to provide an exemplary educational experience that leads to highly competent and practice-ready caring pharmacists and pharmaceutical scientists who are accountable for improving the health and well-being of society. The programs seek to advance knowledge through collaborative education, science, research, service, patient care and advocacy. The school strives to achieve academic and professional excellence.

By virtue of their innate abilities and their education and experiences at Pacific, our graduates are:

- accomplished and compassionate practitioners dedicated to improving inpatient care in traditional and emerging roles in all practice settings;
- capable of critical thinking, problem solving and strong individual and team leadership;
- filled with the desire, knowledge and skills to serve their diverse communities and professions locally, regionally, nationally and globally;
- able to advance the profession of pharmacy by providing high quality health care, innovative practice models and leadership in healthcare policy to meet the needs of an increasingly diverse population;
- able to advance the pharmaceutical sciences by developing cutting-edge research and contributing to scientific discovery;
- prepared and inspired to seek postgraduate and continuing professional development; and
- ambassadors for preventive health and wellness

Programs in Pharmacy and Pharmaceutical Sciences

The Thomas J. Long School of Pharmacy offers the Pre-Pharmacy Advantage program, BS Pharmaceutical Science, Doctor of Pharmacy degree and graduate degrees in the pharmaceutical and chemical sciences.

Pre-Pharmacy Advantage Program

The University of Pacific offers first-time undergraduate freshmen three options that can lead to guaranteed admission into Pacific's Doctor of Pharmacy program. The options are the five-year (2+3) Pre-Pharmacy/PharmD option and the six-year (3+3) Pre-Pharmacy/PharmD option. Specific admission criteria for each ensure that students have the appropriate time to successfully prepare for advancement into the professional pharmacy program. Interested students should request information about the Pacific Pre-Pharmacy Advantage Program from the Admissions Office or visit <https://pharmacy.pacific.edu/pharmacy/pre-pharmacy> (<https://pharmacy.pacific.edu/pharmacy/pre-pharmacy/>).

More specific program information is provided in the section on the Pre-Pharmacy Advantage Program.

Bachelor of Science in Pharmaceutical Science

Pharmaceutical science careers are flourishing and projected to expand over the next decade. The Thomas J. Long School of Pharmacy's new Bachelor of Science in pharmaceutical science is designed to successfully prepare graduates for employment in the pharmaceutical industry. Throughout the program students will have the advantage of gaining extensive hands-on training through laboratory research and

experiential learning. In addition, students will be guided by dedicated faculty advisors to secure internship placements in the last semester.

Graduates with a pharmaceutical science background can become successful scientists, industry leaders and academicians working in pharmaceutical, biotechnology, the chemical and cosmetic industry, government agencies, research institutions and universities. <https://pharmacy.pacific.edu/pharmacy/academics/pharmaceutical-science-bs>

Learn more about the BS in pharmaceutical science application process (<https://www.pacific.edu/admission/undergraduate/>). (<https://www.pacific.edu/admission/undergraduate/>)

Doctor of Pharmacy Program

The Doctor of Pharmacy Program is an accelerated program designed to develop pharmacy practitioners who are able to enter community and hospital pharmacy practice, residencies, and other roles in pharmacy and health care. Satisfactory completion of the Doctor of Pharmacy degree enables a student to sit for pharmacy licensing examinations throughout the United States, and eventually practice pharmacy. The basic residence requirement for completion of the Doctor of Pharmacy degree is eight semesters, which is completed in approximately two and two-thirds years. This has been made possible by utilizing the summer months for instruction, thus providing the same number of instructional semesters as in four academic years. The first two years of the program include on campus course work plus introductory pharmacy practice experiences.

The final year of the program consists of advanced pharmacy practice experiences in health care settings. More specific program information is provided in the section on the Doctor of Pharmacy program, <http://www.pacific.edu/pharmd> (<http://www.pacific.edu/pharmd/>).

Pharmaceutical and Chemical Sciences Program

Join the passionate students and faculty of our Pharmaceutical and Chemical Sciences Program (PCSP). We will prepare you for a career in the increasingly complex and integrated realms of pharmaceutical, chemical and biotechnological research. PCSP is a collaboration between the Thomas J. Long School of Pharmacy and the Department of Chemistry in the College of the Pacific. The program is closely tied to industrial interests and trends and is designed to provide students with a broad understanding of the pharmaceutical and/or chemical sciences. Earn either a master of science (MS) or a doctor of philosophy (PhD) in pharmaceutical and chemical sciences.

Phone: (209) 946-2405

Website: pharmacy.pacific.edu/pharmacy/pcsp (<https://pharmacy.pacific.edu/pharmacy/pcsp/>)

Accreditation

Organized in 1955, the Thomas J. Long School of Pharmacy is a member of the American Association of Colleges of Pharmacy, and its Doctor of Pharmacy Program is fully accredited by the Accreditation Council for Pharmacy Education (ACPE). Accreditation information can be found online at <http://www.acpe-accredit.org/> or by contacting:

ACPE

20 North Clark Street, Suite 2500

Chicago, IL 60602-5109

Phone: (312) 664-3575

Fax: (312) 664-4652

E-mail: info@acpe-accredit.org

Pharmacy Licensure

For California pharmacy licensure requirements see <http://www.pharmacy.ca.gov/> or contact:

the California State Board of Pharmacy
1625 N. Market Blvd., Suite N219
Sacramento, CA 95834

Contact information for boards of pharmacy from other states can be found through the National Association of Boards of Pharmacy at <https://nabp.pharmacy/>.

Scientific Thinking (Learner)

Seek, analyze, integrate, and apply foundational knowledge of medications and pharmacy practice (biomedical; pharmaceutical; social, behavioral, administrative; and clinical sciences; drug classes; and digital health).

Problem Solving (Problem Solver)

Use problem solving and critical thinking skills, along with an innovative mindset, to address challenges and to promote positive change.

Communication (Communicator)

Actively engage, listen, and communicate verbally, nonverbally, and in writing when interacting with or educating an individual, group, or organization.

Cultural and Structural Humility (Ally)

Mitigate health disparities by considering, recognizing, and navigating cultural and structural factors (e.g. social determinants of health, diversity, equity, inclusion, and accessibility) to improve access and health outcomes.

Person-centered Care (Provider)

Provide whole person care to individuals as the medication specialist using the Pharmacists' Patient Care Process

Advocacy (Advocate)

Promote the best interests of patients and/or the pharmacy profession within healthcare settings and at the community, state, or national level.

Medication-use Process Stewardship (Steward)

Optimize patient healthcare outcomes using human, financial, technological, and physical resources to improve the safety, efficacy, and environmental impact of medication use systems.

Interprofessional Collaboration (Collaborator)

Actively engage and contribute as a healthcare team member by demonstrating core interprofessional competencies.

Population Health and Wellness (Promoter)

Assess factors that influence the health and wellness of a population and develop strategies to address those factors.

Leadership (Leader)

Demonstrate the ability to influence and support the achievement of shared goals on a team, regardless of one's role.

Self-awareness (Self-aware)

Examine, reflect on, and address personal and professional attributes (e.g., knowledge, metacognition, skills, abilities, beliefs, biases, motivation, help-seeking strategies, and emotional intelligence that could enhance or limit growth, development, & professional identity formation.

Professionalism (Professional)

Exhibit attitudes and behaviors that embody a commitment to building and maintaining trust with patients, colleagues, other health care professionals, and society.

Pharmacy Programs Faculty

Berit Gundersen, Dean, 2022, Emeriti Professor of School of Health Sciences, 2021, Professor of Pharmacy Practice, 2005; PharmD, University of the Pacific, 1984.

Miki Park, Interim Associate Dean, Graduate Education & Research, Director of the Pharmaceutical & Chemical Sciences Programs, Professor of Pharmaceutical Sciences, 2004, BS, University of Texas, Austin, 1997; PhD, University of California, San Francisco, 2002.

Marcus Ravnar, Associate Dean for Undergraduate Programs, Professor of Pharmacy Practice, 2000, PharmD, University of the Pacific, 1994.

Srikanth Kolluru, Associate Dean for Academic Affairs, Professor, Department of Pharmaceutical Sciences, 2024, M.S., PhD, Jadavpur University, Kolkata, India, 2002.

Allen Shek, Associate Dean for Professional Programs, Professor of Pharmacy Practice, 2000, BS, State University of New York, Buffalo, 1991; PharmD, University of Illinois, 1998.

James A. Uchizono, Associate Dean, Student Affairs & Admissions. Professor of Pharmaceutics, Department of Pharmaceutical Sciences, 2000, BS, 1985, BS, University of California, Irvine, 1985; PharmD, 1990, PhD, University of California, San Francisco, 2001.

Douglas Jennings, Department Chair, Department of Pharmacy Practice, Professor, 2025, FCCP, PharmD, Wayne State University, 2005.

Bhaskara Jasti, Chair, Department of Pharmaceutical Sciences, Executive Director, Jie Du Center for Innovation & Drug Development, Professor of Pharmaceutical Sciences, 2001, BS, Kakatiya University, India, 1987; BS, Jadavpur University, India, 1990; PhD, University of the Pacific, 1995.

Andrew L. Haydon, Director of Professional Programs, Associate Clinical Professor of Pharmacy Practice, 2020, PhD, University of the Pacific, 2012.

Rolly Kali-Rai, Director, Pharmacy Business Management Certificate Program, Associate Clinical Professor of Pharmacy Practice, 2023, PharmD, University of the Pacific, 1989.

Yifan Lu, Director, BS Pharmaceutical Sciences, Associate Professor of Pharmaceutical Sciences, 2025, B.S. Pharmaceutical Sciences, 2007, M.S. Pharmaceutics, 2010, Fudan University; Ph.D. Pharmaceutical Science, University of the Pacific, 2019.

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Lisa K. Wong, Adjunct Professor, 2004, BS, University of the Witwatersrand, 1989.

Lisa Kam-Fong Wong, Adjunct Professor, 2004, BS University of California, Davis, 1996; PharmD, University of California, San Francisco, 2000.

Louis Wong, Adjunct Professor, 2013, BS, University of Southern California, 1970; PharmD, California State University, Los Angeles, 1975.

Priscilla Wong, Adjunct Professor, 2000, PharmD, University of California, San Francisco, 1995.

Shannon Wong, Adjunct Professor, 2012, BS University of California, Davis 1993; PharmD, University of the Pacific, 1996.

Shannondoah Wong, Adjunct Professor, 2019, BA Applied Sciences, University of the Pacific, 2018, PharmD Pharmacy, University of the Pacific, 2018.

Shirley Wong, Adjunct Professor, 2025, BS, Pharmaceutical Chemistry, Chinese Minor, University of California, Davis, 2014, MS, Medical Health Sciences, Touro University California, 2017, PharmD, Pharmacy, University of the Pacific, 2021.

Sincere Wong, Adjunct Professor, 2005, PharmD, University of the Pacific, 2002.

Stephanie Ann Wong, Adjunct Professor, 2016, B.S., University of California, Davis, 2010; PharmD, University of Iowa, 2014

Susan Wong, Adjunct Professor, 2000, BS, University of California, Irvine, 1982; PharmD, University of California, San Francisco, 1986.

Teresa Wong, Adjunct Professor, 2019, BA Japanese, Stanford University, 1997, BS Biological Sciences, Stanford University, 1997, PharmD Pharmacy, University of the Pacific, 2001.

Tracy Wong, Adjunct Professor, 2008, PharmD, University of California San Francisco, 1988.

Carolyn Woo, Adjunct Professor, 2012, BS, University of California, Davis, 2009; PharmD, University of California, San Francisco, 2007.

Christopher A. Woo, Adjunct Professor, 1991, PharmD, University of the Pacific, 1988.

Kenneth Woo, Adjunct Professor, 2007, PharmD, University of Mississippi, 2000.

Christopher Wood, Adjunct Professor, 2007, BA, Chaminade University, 1987; MPH, University of Hawaii, 1991; MD, University of Hawaii, 1998.

Frank C. Wood, Adjunct Professor, 2005, PharmD, University of the Pacific, 1985.

Linda K. Woods, Adjunct Professor, 2009, PharmD, University of Wyoming, 1979.

Alisha Wright, Adjunct Professor, 2021, BS Nutrition, California Polytechnic State University, San Luis Obispo.

Amanda Wright, Adjunct Professor, 2014, BS, University of Arkansas, 2004; PharmD, University of Arkansas for Medical Sciences, 2008.

Alex Hui Wu, Adjunct Professor, 2017, BA, Economics, University of California, Irvine, 2004, PharmD, Pharmacy, University of Southern California, 2009.

Alyssa Wu, Adjunct Professor, 2025, PharmD, Pharmacy, University of the Pacific, 2013.

Jay J.Q. Wu, Adjunct Professor, 2004, PhD, University of Konstanz, 1993.

Joanna Wu, Adjunct Professor, 2021, BS Biochemistry, University of California, Los Angeles, 2012, PharmD Pharmacy, University of Southern California, 2016.

Phipson C Wu, Adjunct Professor, 2016, PharmD, University of Southern California, 2008.

Stephanie Wu, Adjunct Professor, 2018, BA, Psychology, University of CA, Irvine, 2008, PharmD, Western University of Health Sciences, 2014.

Jennifer Wyatt, Adjunct Professor, 2019, BS Molecular and Cell Biology, California State University San Marcos, 2015, PharmD Pharmacy, University of the Pacific, 2018.

Jin Xiao, Adjunct Professor, 2012, BSPharm, Beijing Medical University, Beijing, P.R. China, 1996; MS, Division of Analytical Chemistry, 1999; PhD, Pharmaceutics, College of Pharmacy, Ohio State University, Columbus, OH, 2004.

Minli Xie, Adjunct Professor, 2015, Ph.D.

Michael Xu, Adjunct Professor, 2023, MBA Business Administration, University of the Pacific, 2018, PharmD Pharmacy, University of the Pacific, 2018.

Noymi Yam, Adjunct Professor, 2006, PhD, University of the Pacific, 2009.

Anna S. Yang, Adjunct Professor, 2015, BA, Biology, University of California, Berkeley, 1994; Pharm.D., Pharmacy, University of the Pacific, 2008.

Peggy Yang, Adjunct Professor, 1997, PharmD, University of Southern California, 1994.

Everett Yukio Yano, Adjunct Professor, 2016, PharmD, University of the Pacific, 2013

Christy J. Yee, Adjunct Professor, 2005, BS, University of California, San Diego, 1996; PharmD, University of California, San Francisco, 2001.

David Alan Yee, Adjunct Professor, BS, Biophysics, University of California, San Diego, 2009, PharmD, Pharmacy, University of California, San Diego, 2013.

Helen S. Yee, Adjunct Professor, 1995, PharmD, University of California, San Francisco, 1993.

William P. Yee, Adjunct Professor, 1986, PharmD, University of the Pacific, 1983.

Johnathan Yeh, Adjunct Professor, 2009, PharmD, University of Southern California, 2007.

Edward Yen, Adjunct Professor, 2012, BS, University of California Los Angeles, 2007; PharmD, University of the Pacific, 2011.

Katherine A. Yep, Adjunct Professor, 2009, PharmD, University of the Pacific, 2005.

Winnie Puiyee Yeung, Adjunct Professor, 2017, B.S., Microbiology, University of California, Los Angeles, 2005, PharmD, University of California, San Francisco, 2009.

Kirstie Yi, Adjunct Professor, 2019, BS Biology, University of California, Irvine, 1992, PharmD Pharmacy, University of the Pacific, 1996.

Janis Wing Yun Yim, Adjunct Professor, 2012, PharmD, University of the Pacific, 2006.

C. Kelly Yip, Adjunct Professor, 2012, BS, University of Wisconsin, Madison, 1980; PharmD, University of Illinois, Chicago, 1992.

Franklin Yip, Adjunct professor, 1995, BA, University of California, Berkeley, 1988; PharmD, University of the Pacific, 1991.

Goldie Yip, Adjunct Professor, 1999, PharmD, University of the Pacific, 1990.

Lily Yip, Adjunct Professor, 2020, BA Molecular Cell Biology/Public Health, University of California, Berkeley, 2005, PharmD Pharmacy, University of Southern California, 2011.

Janice Yonemoto, Adjunct Professor, 2012, PharmD, University of California, San Francisco, 1985.

Patti Akiko Yoshida, Adjunct Professor, 2013, PharmD, University of Southern California, 1978; MPA, University of Southern California, 1988.

Elibra Younan, Adjunct Professor, 2018, B.S., Chemistry & Biology, California State University, Stanislaus, 2011, PharmD, University of the Pacific, 2014.

Christine Yu, Adjunct Professor, 2019, PharmD Pharmacy, University of California, San Francisco, 2018.

Jenny Yu, Adjunct Professor, 2015, BA, Molecular and Cell Biology, University of California, Berkeley, 2005; Pharm.D., Pharmacy, California Northstate University, College of Pharmacy, 2012.

Lusha Yu, Adjunct Professor, 2015, BA, Physics, University of California, Berkeley, 2006; Pharm.D., Pharmacy, University of California, San Francisco, 2011.

John R. Yuen, Adjunct Professor, 2001, BA, University of Southern California, 1984; PharmD, University of Southern California, 1988.

Jin Yun, Adjunct Professor, 2015, B.S., Physiology, Michigan State University, 1997; Pharm.D., Pharmacy, University of Michigan, Ann Arbor, 2002; MBA, Business, University of California, Berkeley, 2010.

Kristen Norris Zak, Adjunct Professor, 2013, BS, University of Maryland, College Park, 2002; MS, The Scripps Research Institute, 2005; PharmD, University of California, San Francisco, 2010.

Mary Zarate, Adjunct Professor, 2022, BA Chemistry, concentration Biochemistry, California State University, Sacramento, 2011, PharmD Pharmacy, University of the Pacific, 2014.

Nurulain Zaveri, Adjunct Professor, 2012, B.Pharm, Bombay University, Bombay, India, 1985; Ph.D, Medicinal Chemistry, Duquesne University, Graduate School of Pharmaceutical Sciences, Pittsburgh, PA.

Robert C. Zehnder, Adjunct Professor, 2000, BS, California Polytechnic University, San Luis Obispo, 1983; PharmD, University of California, San Francisco, 1989.

Dongxiao Zhang, Adjunct Professor, 2006, BS, Nakai University, 1990; PhD, Case Western Reserve University, 1996.

Kristine Zhang, Adjunct Professor, 2023, PharmD Pharmacy, Northeastern University School of Pharmacy, 2019.

Mason Zhang, Adjunct Professor, 2022, BS Microbiology, Oregon State University, 2015, MA Business Administration, Oregon State University, 2019, PhD Pharmacy, Oregon State University, 2019.

Qingrong Laura Zhang, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of Illinois at Chicago, 1997.

Sanaz Ziad, Adjunct Professor, 2019, BS Public Health Sciences, University of California, Irvine, 2011, PharmD Pharmacy, University of the Pacific, 2016.

Thomas F. Zioncheck, Adjunct Professor, 2002, BS, State University College, Oneonta, 1984; PhD, Purdue University, 1988.

Julie C. Zoolakis, Adjunct Professor, 2016, PharmD, University of the Pacific, 1994.

Pre-Pharmacy Advantage Program

All advantage program students are placed into the BAAS major either as a 2/3 or 3/3 Pre-Pharmacy Student on admission. The Pre-Pharmacy Advantage Program is a 65 unit minimum program.

For admission to the Doctor of Pharmacy program, students must meet specific program, academic* and admissions criteria. Students must complete the academic program within 4 (for 2/3 students) or 5 years (for 3/3 students) of entering the University.

* *Specific courses in Math and Science, a Math/Science GPA minimum of 2.7 calculated using specific courses, and a cumulative Pacific GPA of at least 3.0. With exception of Core Seminars, all coursework must be of C or better to be counted towards meeting requirements. The Math/Science GPA does not include all math and science courses. For a specific list of Math/Science courses, please contact the Office for Pharmacy Undergraduate Programs at prepharmacy@pacific.edu or (209)946-2563.*

Note: Courses cannot be taken for Pass/No Credit.

I. General Education Requirements

For more details, see General Education (<https://catalog.pacific.edu/uop/generalinformation/generaleducation/>)

Minimum 28 units and 9 courses that include:

A. CORE Seminars (2 courses)

CORE 001	Problem Solving & Oral Comm	3
CORE 002	Writing and Critical Thinking	4

Note: 1) CORE Seminars cannot be taken for Pass/No Credit. 2) Transfer students with 28 or more transfer credits taken after high school are exempt from both CORE seminars. Students participating in the First Year Honors Program should complete an honors section of CORE 001 regardless of the number of college transfer units completed.

B. Breadth Requirement (7 courses, at least 3 units each)

At least one course from each of the following areas:

Artistic Process & Creation
Civic & Global Responsibility
Language & Narratives
Quantitative Reasoning
Scientific Inquiry
Social Inquiry
World Perspectives & Ethics

Note: 1) No more than 2 courses from a single discipline can be used to meet the Breadth Requirement.

C. Diversity and Inclusion Requirement

All students must complete Diversity and Inclusion coursework (at least 3 units)

Note: 1) The diversity requirement only applies to students obtaining a bachelor's degree. 2) Diversity and Inclusion courses can also be

used to meet the breadth category requirements, or major or minor requirements.

D. Fundamental Skills

Students must demonstrate competence in:

Writing

Quantitative Analysis (Math)

Note: 1) Failure to satisfy the fundamental skills requirements by the end of four semesters of full-time study at the University is grounds for academic disqualification.

II. Major Requirements

BIOL 061	Principles of Biology	5
BIOL 116	Applied Microbiology	4
BIOL 117	Applied Physiology	4
BIOL 118	Applied Biochemistry and Molecular Biology	4
CHEM 026	Applied General Chemistry I	4
or CHEM 025	General Chemistry	
CHEM 028	Applied General Chemistry II	4
or CHEM 027	General Chemistry	
CHEM 122	Applied Organic Chemistry I	4
or CHEM 121	Organic Chemistry	
CHEM 124	Applied Organic Chemistry II	4
or CHEM 123	Organic Chemistry	
PRAC 101	Perspectives of Pharmacy I	1
PRAC 102	Perspectives of Pharmacy II	2
PHYS 017	Concepts of Physics	4
MATH 033	Elements of Calculus	4
COMM 027	Public Speaking	3
Select one of the following:		4
PSYC 017	Abnormal and Clinical Psychology	
PSYC 031	Introduction to Psychology	
Select one of the following:		3-4
ECON 051	Economic Principles and Problems	
ECON 055	Introductory Macroeconomics: Theory and Policy	
Two positive Letters of Reference*		
* References cannot be from an immediate family member		
Passing Writing Sample		
Passing Interview		

Admission into the Doctor of Pharmacy Program

There are two pathways for admission into the Doctor of Pharmacy Program: 1) Pacific's Pre-Pharmacy Advantage Program; and 2) application as a transfer student from another college, university, or program within the University of the Pacific. The criteria for advancement from the Pre-Pharmacy Advantage Program to the Doctor of Pharmacy program are provided in the description of the Pre-Pharmacy program.

For information about admission to the Doctor of Pharmacy Program as a transfer student, see the "Special Requirements for Pharmacy Applicants" section under Admission Requirements at the front of this catalog or information provided on the University's website at <http://www.pacific.edu/pharmd> (<http://www.pacific.edu/pharmd/>). The pharmacy faculty determines admission requirements and the Office of Pharmacy Admission manages the admissions process. Questions regarding admission are directed to the Office of Pharmacy Admission. The program places strong emphasis on the academic record, verbal and

written communication skills, demonstrated interest and experience in healthcare and leadership qualities in the selection process. The School attempts to select students with strength in all of these areas. After review of the completed application, the Office of Pharmacy Admission invites qualified candidates to participate in interviews on campus, which includes a writing demonstration. Admissions decisions are based on the application, transcripts, letters of recommendation, the interviews and the writing sample.

Pharmacy Pre-Professional Curriculum Requirements

At least sixty eight (68) transferable semester units are required prior to entry into the Doctor of Pharmacy program. Those courses are listed below. The liberal arts requirements must total a minimum of twenty eight (28) semester or forty two (42) quarter units. No more than two semester units of physical education are used to fulfill the electives requirements. These requirements will be satisfied by successful completion of the Pre-Pharmacy Advantage program, which is described in detail in that section.

- Mathematics: One semester of college-level calculus or its equivalent.
- Physics: One semester/quarter of college-level physics (with laboratory) or its equivalent.
- Chemistry: (1) General chemistry with lab, eight semester units minimum and (2) organic chemistry with lab, eight semester units minimum. Coursework is designed for chemistry or biology majors.
- Biological Sciences: General biology, eight semester units with laboratory both semesters; coursework may include two semesters zoology, one semester each botany and zoology, or two semesters of general biology designed for biology majors; general microbiology, four units; human physiology with laboratory, 4 units.
- Writing for College or equivalent: One semester, minimum.
- Reading for College or equivalent: One semester, minimum.
- Public Speaking: Three semester/four quarter units, minimum.
- Psychology: One semester, minimum.
- Economics: Three semester/four quarter units, minimum.
- General Education: At least one three semester/four quarter unit course from each non-science category of the University of the Pacific's General Education Program.

Students must pass the fundamental skills competency in quantitative skills and writing and satisfy any general education and liberal arts course requirements not completed in pre-pharmacy. Students who enter the Doctor of Pharmacy program with a U.S. baccalaureate degree and students who have met the General Education requirements of another college or university are not required to meet the University General Education requirements. These requirements are listed elsewhere in this catalog.

Applicants are also strongly encouraged to take course work in human physiology. Although not yet a requirement, physiology will eventually become a requirement for entrance into the Doctor of Pharmacy program.

These pre-professional requirements simply make the candidate eligible for selection. Final selection is based on recommendations, personal factors and strength of academic preparation. Applicants are urged to communicate with the University of the Pacific's Pharmacy Admissions Office regarding questions on the above requirements.

Other Entrance and Progression Requirements

Entrance and progression in the Doctor of Pharmacy program requires that students provide documentation of receiving the required immunizations and disease screening. Students must also meet certain technical standards (see here (<https://pharmacy.pacific.edu/pharmacy/>))

pharmd/technical-standards/)) for entrance into and progression through the Doctor of Pharmacy program. Students must also be eligible for registration as a pharmacy intern in the state of California.

Participation in introductory and advanced pharmacy practice experiences requires a California pharmacy intern license.

Program and pharmacy practice experience requirements also include required drug screening and background checks.

Academic Standards

Students must successfully pass each required course in each semester in order to be allowed to fully enroll in the subsequent semester. Because of the integrated nature of the pharmacy curriculum, students are only permitted to enroll in pharmacy courses in which they have met all prerequisites.

Academic Status

Good Standing

Proposed Criteria: Cumulative GPA >2.00

Consequence: Advance in the curriculum and graduate if has passed all courses

Warning

Proposed Criteria: Semester GPA < 2.00 and/or 2 or more Ds in required courses in a semester

Consequence: Receives a Warning Letter

Probation

Proposed Criteria: Cumulative GPA < 2.00 and/or 1 grade of F or NC in any required course

Consequence: Able to advance to semester 6. Not able to advance to APPEs or graduate. Other restrictions apply*

Disqualification

Proposed Criteria: 2 or more Fs and/or NC in required course(s) and/ or 6 or more Ds, or lower, in required courses

Consequence: May petition for a deferred disqualification, which is followed by a mandatory program of study with performance criteria

Students must pass all required courses. A grade of C or better is required to pass the six advanced pharmacy practice experiences in semesters 7 and 8 of the program. In other courses, a grade of D or better is required.

Students must be in good academic standing, have completed and passed all required courses and 4 units of electives, maintain an active pharmacy intern license, be certified in basic life support, adhere to professional and academic codes of conduct, have passed all curriculum assessments, and meet all other requirements for participation in pharmacy experiences (such as background checks, drug screening, etc.) prior to be allowed to progress from the 2nd year into the advanced pharmacy practice experiences in the 3rd year of the program.

Professional Curriculum for the Doctor of Pharmacy Degree

The Doctor of Pharmacy curriculum is carefully designed to progressively develop student abilities to meet program learning outcomes,

and accreditation standards, and the needs of the profession. Students must complete a minimum of 144 units as outlined below. The curriculum includes required didactic, laboratory, discussion and experiential courses in addition to a broad array of elective courses. An extensive co-curriculum supplements the curriculum and provides opportunities for further development of student abilities.

Note: The following courses must be taken in the prescribed trimester sequence because of the integrated nature of the pharmacy curriculum. The IPPEs noted below with the '#' mark can be taken in Semesters 4, 5 or 6. A grade of C or better is required to pass Practicum II to IV courses in semesters 3 through 6 and the advanced pharmacy practice experiences in semesters 7 and 8. [IPPE stands for Introductory Pharmacy Practice Experiences and APPE stands for Advanced Pharmacy Practice Experiences.]

Trimester 1

PHAR 111	Physiology I	4
PHAR 115	Dispensing, Compounding, and Calculations	3
PHAR 116	Principles of Biological Mechanisms	4
PHAR 117	Principles and Application of Dosage Forms	4
PHAR 121	Professional Communications	1
PHAR 122	Drug Information Resources and Technology	1
PHAR 131	Pharmacy Skills I – Introduction to Patient Workup	2
PHAR 669	Interprofessional Education	0

Total Hours **19**

Trimester 2

PHAR 211	Physiology II	4
PHAR 212	Introduction to Pharmacology	2
PHAR 213	Drug Disposition I	3
PHAR 221	Biostatistics and Research Design	2
PHAR 231	Pharmacy Skills II-Outpatient Care	1
PHAR 232	Clinical Assessment	1
PHAR 241	Nonprescription Therapy and Self Care	2
PHAR 251	Community I Introductory Pharmacy Practice Experience (IPPE)	2
PHAR 669	Interprofessional Education	0

Elective(s) * 0-3

Total Hours **17-20**

Trimester 3

PHAR 311	Drug Disposition II	3
PHAR 321	Health Care Delivery Systems I and Pharmacoeconomics	2
PHAR 331	Pharmacy Skills III- Assessment and Counseling	1
PHAR 332	Case Based Practice I	1
PHAR 341	Integrated Clinical Sciences: Cardiovascular Disease I – Foundations	3
PHAR 343	Integrated Clinical Sciences: Endocrine Disorders	2
PHAR 443	Integrated Clinical Sciences: Gastrointestinal, Nutrition and Renal Disorders	4
PHAR 551	Community II Introductory Pharmacy Practice Experience (IPPE)	2
PHAR 669	Interprofessional Education	0

Elective(s)* 0-3

Total Hours **18-20**

Trimester 4

PHAR 342	Integrated Clinical Sciences: Cardiovascular Disease II - Therapeutics	3
PHAR 411	Physiology III: Immunology	1
PHAR 421	Health Care Delivery Systems II	2
PHAR 431	Pharmacy Skills IV: Inpatient Care	1
PHAR 432	Case Based Practice II	1
PHAR 441	Integrated Clinical Sciences: Neuropsychiatric Disorders I - Foundations	2
PHAR 442	Integrated Clinical Sciences: Neuropsychiatric Disorders II - Therapeutics	4
PHAR 669	Interprofessional Education	0
PHAR 553	Ambulatory Care Introductory Pharmacy Practice Experience (IPPE) #@	1
PHAR 555	Hospital IPPE #	2
Elective(s) *		0-3
Total Hours		14-20

Trimester 5

PHAR 521	Pharmacy Practice Management	3
PHAR 531	Pharmacy Skills V: Professional Communications	1
PHAR 532	Case Based Practice III	1
PHAR 541	Integrated Course Series - Infectious Diseases I Fundamentals	2
PHAR 542	Integrated Course Series – Infectious Diseases II Applications	4
PHAR 543	Integrated Clinical Sciences: Women's, Men's & Genitourinary Disorders	2
PHAR 544	Integrated Clinical Sciences: Pulmonary & Ear, Nose and Throat Therapeutics	1
PHAR 559	Health Care Outreach Introductory Pharmacy Practice Experience (HCO IPPE) @	1
PHAR 669	Interprofessional Education	0
PHAR 553	Ambulatory Care Introductory Pharmacy Practice Experience (IPPE) #@	1
PHAR 555	Hospital IPPE #	2
Elective(s) *		0-3
Total Hours		15-20

Trimester 6

PHAR 621	Pharmacy Law and Regulatory Affairs	3
PHAR 631	APPE Preparedness	1
PHAR 632	Case Based Practice IV	1
PHAR 641	Integrated Clinical Sciences: Immune, Inflammatory & Pain Disorders	3
PHAR 642	Integrated Clinical Sciences: Pediatrics and Geriatrics	2
PHAR 643	Integrated Clinical Sciences: Oncology	4
PHAR 644	Integrated Clinical Sciences: Critical Care & Emergency Medicine	1
PHAR 669	Interprofessional Education	1
PHAR 553	Ambulatory Care Introductory Pharmacy Practice Experience (IPPE) #@	1
PHAR 555	Hospital IPPE #	2
Elective(s) *		0-3
Total Hours		16-20

Trimester 7 and 8

PHAR 751	Advanced Pharmacy Practice Experience (APPE) Capstone I	1
PHAR 752	Advanced Pharmacy Practice Experience (APPE) Capstone II	1
PHAR 753	Internal Medicine Advanced Pharmacy Practice Experience (APPE)	6
PHAR 754	Ambulatory Care Advanced Pharmacy Practice Experience (APPE)	6
PHAR 755	Hospital Pharmacy Advanced Pharmacy Practice Experience (APPE)	6
PHAR 756	Community Pharmacy Advanced Pharmacy Practice Experience (APPE)	6
PHAR 757	Advanced Pharmacy Practice Experience (APPE) Elective I	6
PHAR 758	Advanced Pharmacy Practice Experience (APPE) Elective II	6
Total Hours		19 and 19

Total Unit: 144

* A total of 4 or more units of approved pharmacy electives must be taken by the end of trimester #6

These IPPEs are taken in trimester 4, 5 or 6 as scheduled by the Office of Professional Programs

@ PHAR 553 Ambulatory Care IPPE and PHAR 559 Health Care Outreach IPPE are both satisfied by taking PRAC 141 Health Care Outreach IPPE and PRAC 142 Medicare Part D IPPE

APPE Advanced Pharmacy Practice Experience

IPPE Introductory Pharmacy Practice Experience

Professional Electives

All candidates for the Doctor of Pharmacy degree are required to complete a minimum of four (4) semester units of approved electives while in residence and prior to progression into the Advanced Pharmacy Practice Experiences.

Students are also required to complete twelve (12) semester units of elective advanced pharmacy practice experiences in the final year of the program.

Professional electives include approved pharmacy electives and other approved courses from the University and select external institutions. Students may petition to have an unapproved course count as a professional elective, but the course will only be allowed to count as a professional elective if the petition is approved prior to enrollment in the course.

Courses that are not eligible to be included as professional electives include courses taken: during the pre-professional education; during the Pre-Pharmacy Advantage program; while not in residence in the Doctor of Pharmacy program; or to fulfill a general education or liberal arts requirement (even if taken when the student is in residence in the Doctor of Pharmacy program).

Pharmacy Practice Experience and Practice Experience Placement Policy

All pharmacy students are required to complete introductory and advanced pharmacy practice experiences as part of their formal program of study. The total number of hours spent in introductory and advanced

pharmacy practice experiences will meet or exceed accreditation requirements and the number of pharmacy intern hours required for application for pharmacy licensure in California if students follow the appropriate procedures for documentation and signatures.

The introductory pharmacy practice experiences include experiences in community pharmacy, hospital pharmacy, ambulatory care, and health care outreach during the first six semesters of the program. The advanced practice experience consists of two semesters third year (7th and 8th semesters) where students are required to enroll in four required six-week rotations that include Community, Hospital, Ambulatory Care and Internal Medicine advanced pharmacy practice experiences plus two six-week elective rotations and two capstone courses.

The selection of the sites for introductory and advanced pharmacy practice experiences is made at the sole discretion of the University of the Pacific Thomas J. Long School of Pharmacy. Introductory pharmacy practice experiences generally occur within a one hour drive of the School. For advanced pharmacy practice experiences, each student is assigned to region within California or possibly other nearby states.

Graduation Requirements

Graduation requirements for each entering class are provided at the beginning of the first professional year for each student. Accreditation requirements and curriculum changes may necessitate changes in these requirements. The Thomas J. Long School of Pharmacy reserves the right to modify or change the curriculum at any time without prior notice.

Graduation requirements include passing all required courses and 4 units of elective course in semesters 1 through 6, becoming certified in basic life support, passing all curriculum outcomes assessments, and adhering to the program's professional and academic codes of conduct.

A grade point average of 2.00 (on a 4-point scale) is required for graduation in: (1) all required Doctor of Pharmacy courses and (2) all courses taken while in residence in the professional program.

Eight semesters of Thomas J. Long School of Pharmacy residency are required for the Doctor of Pharmacy programs. A semester in residence consists of registering for a minimum of 12 semester units each semester.

All requirements for the Doctor of Pharmacy degree must be completed within five (5) calendar years of the student's initial enrollment in the Doctor of Pharmacy program.

Pharmacy Courses

PHAR 111. Physiology I. 4 Units.

This course will provide foundational physiological principles, and an introduction to the Nervous, Cardiovascular and Respiratory systems at organ, cellular and molecular levels.

PHAR 115. Dispensing, Compounding, and Calculations. 3 Units.

This course covers pharmacy dispensing related topics. Using medications from the Top Drugs list, students will learn how to provide effective consultations, how to communicate effectively with health care professionals, and the process of dispensing medications. Other topics covered in this course include Interpretation of common pharmacy sig abbreviations, brand and generic names of the top medications as well as the major therapeutic use for the majority of those drugs. Students will learn basic non-sterile compounding skills and parenteral compounding skills. This course also covers mathematical concepts as they apply to the practice of pharmacy.

PHAR 116. Principles of Biological Mechanisms. 4 Units.

This course covers the molecular structure of proteins, nucleic acids, and lipids and the biological mechanisms at the molecular level with focus on rational drug design. Students must be enrolled in the PharmD program.

PHAR 117. Principles and Application of Dosage Forms. 4 Units.

This course will provide foundational knowledge about physicochemical properties and different traditional and advanced dosage forms. In this course, students will learn how the drug development and approval process work in US. This will be followed by the introduction of physicochemical principles of pharmacy that form the basis in the design of rational formulation, preparation/compounding, quality control, stability, packaging, and storage of pharmaceutical dosage forms. Student must be enrolled in the PharmD program.

PHAR 121. Professional Communications. 1 Unit.

An introduction to the roles and responsibilities of the pharmacist in general and in various practice settings with a focus on fundamental pharmacy law and professional communications.

PHAR 122. Drug Information Resources and Technology. 1 Unit.

This course will focus on the application of drug information to healthcare and the pharmacy profession and its application as a means of gathering healthcare and medication specific information and communicating it to others. The course will also focus on the ethical use of drug information primarily in patient care, as well as discuss its use in population based care and healthcare/health-system research. An introduction to responding to drug information problems and the search strategies and analysis of the resources will be provided as well.

PHAR 131. Pharmacy Skills I – Introduction to Patient Workup. 2 Units.

Pharmacy practice skills and knowledge will be developed through completion of self-study modules and guided practice simulations. The practicum experiences relate to effective patient counseling for the most commonly prescribed and select non-prescription medications, pulmonary devices, and immunizations in addition to application of appropriate techniques for measurement of blood pressure, blood glucose and administration of immunizations for adolescents and adults.

PHAR 187. Internship. 4 Units.

PHAR 211. Physiology II. 4 Units.

This course is an integrated study of the cellular, anatomical, and physiological components of the gastrointestinal, renal, and endocrine systems. Prerequisites: PHAR 111, PHAR 116, and PHAR 122.

PHAR 212. Introduction to Pharmacology. 2 Units.

This course will provide the foundational principles of pharmacology prior to the integrated course series. Prerequisites: PHAR 111, PHAR 115, PHAR 116, PHAR 117, PHAR 122.

PHAR 213. Drug Disposition I. 3 Units.

This course is designed to introduce the basic pharmacokinetic concepts by focusing on the fundamental principles of absorption, distribution and elimination that govern drug behavior in the body. Prerequisites: PHAR 111, PHAR 115, PHAR 116, PHAR 117 and PHAR 122.

PHAR 221. Biostatistics and Research Design. 2 Units.

This course will focus on the theory, methods and processes used in differing types of research designs seen in healthcare. It will also include information on and an analysis and discussion of the mathematical tools used in testing hypotheses and presenting and making sense of the data collected from research, especially data collected from random samples from the population. This will include a review of scientific methods, forming hypotheses, designing/analyzing interventional and observational studies, processes for gathering data, techniques for summarizing the data collected and drawing inferences from data. An introduction to probability and descriptive statistics will be presented, followed by detailed descriptions of widely used inferential procedures and statistical options. Journal articles from pharmacy, healthcare and epidemiology will be used as examples to enhance the discussions and improve understanding. Prerequisite: PHAR 122.

PHAR 231. Pharmacy Skills II-Outpatient Care. 1 Unit.

Pharmacy practice skills course will build on previous and current course knowledge and content and encompass the application to practice like activities and simulations. The skills based course experiences relate to effective patient counseling for the advanced dispensing of most commonly prescribed, select non-prescription medications including pharmacist furnishing of products such as Naloxone and Plan B, etc. Students will learn and practice the skills involved in over-the-counter (OTC) therapeutics, patient counseling and motivational interviewing. Students will learn how to gather subjective patient data using patient interviewing and history gathering techniques and how to collect objective patient data. Students will participate in simulated patient scenarios and/or cases using the Pharmacist Patient Care Process (PPCP) requiring students to navigate electronic health records (EHRs) to identify drug related therapy problems and develop drug therapy plans. Implementation, documentation, and communication of drug therapy plans will be developed using standardized formats such as SOAP (subjective objective assessment plan) notes and SBAR (situation background assessment recommendation) model. Prerequisites: PHAR 121 and PHAR 131.

PHAR 232. Clinical Assessment. 1 Unit.

Students will learn how to collect, evaluate, and assess clinical data such as laboratory values, physical assessment findings, and diagnostic tests using various written and electronic resources including electronic health records, electronic databases, and/or written patient case studies. Prerequisites: PHAR 121 and PHAR 131.

PHAR 241. Nonprescription Therapy and Self Care. 2 Units.

Principles of triage and self-care using non-prescription pharmacotherapy and dietary supplements. Prerequisites: PHAR 115, PHAR 117, PHAR 121, PHAR 122, and PHAR 131.

PHAR 251. Community I Introductory Pharmacy Practice Experience (IPPE). 2 Units.

A practice-based introductory experience focusing on the role of the Pharmacist/Pharmacy Intern in a community pharmacy practice. This course is designed to allow students to participate in the delivery of pharmaceutical care. Prerequisites: PHAR 115, PHAR 117, PHAR 121, PHAR 122, PHAR 131, and CPR certification.

PHAR 297. Research. 1-4 Units.**PHAR 311. Drug Disposition II. 3 Units.**

This course is designed to expand on the basic pharmacokinetic concepts cover in Drug Disposition I and covers drug metabolism, advanced and clinical pharmacokinetic concepts, pharmacodynamics, drug interactions and pharmacogenetics. Prerequisites: PHAR 211, PHAR 212, PHAR 213, PHAR 221, PHAR 231, PHAR 232, and PHAR 241.

PHAR 321. Health Care Delivery Systems I and Pharmacoeconomics. 2 Units.

The description and application of economic-based evaluation methods to pharmaceutical products, treatments and services. This includes understanding principles which will help decision makers maximize clinical and/or humanistic outcomes given economic constraints. Additionally, this course will provide an introduction to managed care, an overview of governmental health programs, and their respective roles in the US health care delivery system. Prerequisites: PHAR 121, PHAR 122 and PHAR 221.

PHAR 331. Pharmacy Skills III- Assessment and Counseling. 1 Unit.

Pharmacy practice skills III will focus on the learning and development of patient care skills necessary for successful implementation and follow up of the Pharmacists Patient Care Process (PPCP). Patient assessment and communication skills will be learned, developed, and applied to patient care scenarios to identify, evaluate, correct, and prevent therapy related problems. Major topics will be barriers to adherence, delivery device technique and evaluation, nutrition and other non-drug therapies, medication history taking, limited physical assessments, conflict resolution, and other patient communication techniques. Prerequisites: PHAR 211, PHAR 212, PHAR 213, PHAR 221, PHAR 231, PHAR 232, and PHAR 241.

PHAR 332. Case Based Practice I. 1 Unit.

This is part of a series of Case Based Practice courses that develop problem solving and critical thinking skills. Knowledge acquired through the Integrated Clinical Sciences series will be applied in cumulative fashion through the workup of complex patient cases utilizing the pharmacist patient care process, presentation, discussion and documentation. Prerequisites: PHAR 211, PHAR 212, PHAR 213, PHAR 221, PHAR 231, PHAR 232, and PHAR 241.

PHAR 341. Integrated Clinical Sciences: Cardiovascular Disease I – Foundations. 3 Units.

This cardiovascular disease focused course is an integration of Pathophysiology, Pharmacology, and Medicinal Chemistry. The course will enable students to 1) acquire a fundamental understanding of the pathophysiology of the cardiovascular diseases, 2) describe and classify drugs into the major cardiovascular system based pharmacologic classes, and 3) describe select structure-activity relationships of cardiovascular classes of drugs along with their medicinal chemistry bases. Course content, discussion and case based learning will build on student's pre-requisite knowledge, placing in-depth and focused emphasis on cardiovascular science empowering students to make appropriate decisions regarding the selection and use of drug therapy for the management or prevention of disease. Prerequisites: PHAR 211, PHAR 212, PHAR 213, PHAR 221, PHAR 231, PHAR 232, and PHAR 241.

PHAR 342. Integrated Clinical Sciences: Cardiovascular Disease II - Therapeutics. 3 Units.

The cardiovascular therapeutics course will enable students to design and implement patient care plans for patients with or at risk of commonly encountered cardiovascular diseases. Students will learn and apply clinical science and evidence-based medicine with the goal of improving patient care and health outcomes. Course content, discussion and case based learning will build on student's pre-requisite knowledge, placing in-depth and focused emphasis on cardiovascular clinical science and therapeutics with the goal of empowering students to make appropriate decisions regarding the selection, use and monitoring of drug therapy for the management or prevention of cardiovascular diseases. Topics covered include; Hypertension, Hyperlipidemia, Coronary Artery Disease & Angina, Peripheral Arterial Disease, Acute Coronary Syndromes, Post-MI, Stent and CABG Therapeutics, Transient Ischemic Attack & Cerebrovascular Accidents, Heart Failure, Cardiogenic Shock, Venous Thromboembolism, Atrial Fibrillation & Stroke Prevention and Brady & Tachyarrhythmias. Prerequisites: PHAR 311, PHAR 331, PHAR 332, PHAR 341, PHAR 343 AND PHAR 443.

PHAR 343. Integrated Clinical Sciences: Endocrine Disorders. 2 Units.

This is an integrative course combining pathophysiology, pharmacology, medicinal chemistry and therapeutics. Students will develop the abilities to assess and develop patient-specific care plans for patients with endocrine disorders, diabetes and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures, readings, and discussion will enable students to develop the abilities to assess, manage, and document simple to complex patients. Prerequisites: PHAR 211, PHAR 212, PHAR 213, PHAR 221, PHAR 231, PHAR 232, and PHAR 241.

PHAR 397A. Research. 1-4 Units.

PHAR 411. Physiology III: Immunology. 1 Unit.

Molecular and Cellular Basis of the Immune System. Prerequisites: PHAR 311, PHAR 331, PHAR 332, PHAR 341, PHAR 343, and PHAR 443.

PHAR 421. Health Care Delivery Systems II. 2 Units.

This social and behavioral based course will focus on the pharmacists role in various social and population based programs including the use of CLIA waivers to support point-of-care or clinic based laboratory testing, disease prevention (prediabetes, fall risk, etc.) programs and activities, major public health initiatives, the pharmacists role in public health campaigns, preventative care strategies (e.g., Immunization programs), refill clinics, telepharmacy, and crisis management (e.g. natural disaster, eco-political turmoil, disruption of supply chain and threats to usual methods of delivering pharmaceutical care). Prerequisite: PHAR 321.

PHAR 431. Pharmacy Skills IV: Inpatient Care. 1 Unit.

This course is a component of the longitudinal skills based curriculum. Skills III will include a focus on inpatient or hospital practice. The student will gain an understanding of inpatient workflow, pharmacist order verification and entry, sterile intravenous compounding and administration, order-set development, medication reconciliation, transition of care and drug monographs. Prerequisites: PHAR 311, PHAR 331, PHAR 332, PHAR 341, PHAR 343 and PHAR 443.

PHAR 432. Case Based Practice II. 1 Unit.

This is part of a series of Case Based Practice courses that develop problem solving and critical thinking skills. Knowledge acquired through the Integrated Clinical Sciences series will be applied in cumulative fashion through the workup of complex patient cases utilizing the pharmacist patient care process, presentation, discussion and documentation. Prerequisites: PHAR 311, PHAR 331, PHAR 332, PHAR 341, PHAR 343 and PHAR 443.

PHAR 441. Integrated Clinical Sciences: Neuropsychiatric Disorders I - Foundations. 2 Units.

This course discusses the molecular mechanisms of drug action and its relation to chemical structure. This course will cover how prototype therapeutic agents used in the treatment of neuropsychiatric and other disorders affect the peripheral and the central nervous system, both in terms of therapeutic and adverse effects. The emphasis of the course is placed on the molecular mechanisms by which these drugs alter the biochemistry, physiology and pathology of the nervous system, and on the structure-activity relationship (SAR) of these drugs. Prerequisites: PHAR 311, PHAR 331, PHAR 332, PHAR 341, PHAR 343 and PHAR 443.

PHAR 442. Integrated Clinical Sciences: Neuropsychiatric Disorders II - Therapeutics. 4 Units.

Students will develop the abilities to assess and develop patient-specific care plans for patients with specific neurologic and psychiatric conditions, diseases, disorders, and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures, readings, and discussion will enable students to develop the abilities to assess, manage, and document simple to complex patients. Prerequisites: PHAR 311, PHAR 331, PHAR 332, PHAR 341, PHAR 343 and PHAR 443.

PHAR 443. Integrated Clinical Sciences: Gastrointestinal, Nutrition and Renal Disorders. 4 Units.

Students will develop the abilities to assess and develop patient-specific care plans for patients with gastrointestinal, hepatic, nutrition, and renal conditions, diseases, disorders, and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures and readings will provide the foundational information to understand and apply pathophysiologic and pharmacologic principles. Lectures, readings, and case applications will enable students to develop the abilities to assess, manage, and document simple to complex patients. Prerequisites: PHAR 211, PHAR 212, PHAR 213, PHAR 221, PHAR 231, PHAR 232 and PHAR 241.

PHAR 521. Pharmacy Practice Management. 3 Units.

This course provides an overview of human resource management and financial modeling applicable to pharmacy management; included a problem solving models, management decision-making models, and elements from bioethics and legal cases that pertain to management. Prerequisite: PHAR 421.

PHAR 531. Pharmacy Skills V: Professional Communications. 1 Unit.

Pharmacy practice skills course will build on previous and current course knowledge and content and encompass the application to practice-like activities and simulations. The skills based course experiences relate to effective communications in verbal and written form. Students will learn and practice the skills involved in responding to a drug information request, developing of a drug monograph, and conducting in-service presentations. Prerequisites: PHAR 342, PHAR 411, PHAR 431, PHAR 432, PHAR 441, PHAR 442, and PHAR 443.

PHAR 532. Case Based Practice III. 1 Unit.

This is part of a series of Case Based Practice courses that develop problem solving and critical thinking skills. Knowledge acquired through the Integrated Clinical Sciences series will be applied in cumulative fashion through the workup of complex patient cases utilizing the pharmacist patient care process, presentation, discussion and documentation. Prerequisites: PHAR 342, PHAR 411, PHAR 431, PHAR 432, PHAR 441, PHAR 442, and PHAR 443.

PHAR 541. Integrated Course Series - Infectious Diseases I Fundamentals. 2 Units.

Infectious Diseases I is an integrated course where students will learn the foundational concepts of medical microbiology and medicinal chemistry to be able to progress to the Infectious Diseases II Applications course and learn to care for patients with infectious diseases. Prerequisites: PHAR 342, PHAR 411, PHAR 431, PHAR 432, PHAR 441, PHAR 442, and PHAR 443.

PHAR 542. Integrated Course Series – Infectious Diseases II Applications. 4 Units.

Infectious Diseases II is an integrated course where students will build up on the foundational concepts from the Infectious Diseases I course and develop further knowledge in clinical pharmacology, pharmacokinetics, pharmacodynamics and therapeutics in order to care for patients with infectious diseases. Prerequisites: PHAR 342, PHAR 411, PHAR 431, PHAR 432, PHAR 441, PHAR 442, and PHAR 443.

PHAR 543. Integrated Clinical Sciences: Women's, Men's & Genitourinary Disorders. 2 Units.

This integrated clinical science course develops a student's abilities to manage patients with common women's health, men's health, and genitourinary conditions. Prior course work in the foundational sciences serve as the basis for the development of knowledge and application of pertinent pathophysiology, pharmacology, medicinal chemistry and therapeutics. Prerequisites: PHAR 342, PHAR 411, PHAR 431, PHAR 432, PHAR 441, PHAR 442, and PHAR 443.

PHAR 544. Integrated Clinical Sciences: Pulmonary & Ear, Nose and Throat Therapeutics. 1 Unit.

Students will develop the abilities to assess and develop patient-specific care plans for patients with pulmonary/ENT diseases, disorders, and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures and readings will provide the foundational information to understand and apply pathophysiologic and pharmacologic principles. Lectures, readings, labs, and case applications will enable students to develop the abilities to assess, manage, and document simple to complex patients. Prerequisites: PHAR 342, PHAR 411, PHAR 431, PHAR 432, PHAR 441, PHAR 442, and PHAR 443.

PHAR 551. Community II Introductory Pharmacy Practice Experience (IPPE). 2 Units.

Community II Introductory Pharmacy Practice Experiences are a method to enhance each student's understanding of the role and responsibilities of pharmacists in the community setting and to gain experiences with the medication use system within a community pharmacy and expand the abilities developed in the Community I Introductory Pharmacy Practice Experience. Prerequisites: PHAR 251, Pharmacy Intern License, and CPR Certification.

PHAR 553. Ambulatory Care Introductory Pharmacy Practice Experience (IPPE). 1 Unit.

The Ambulatory Care IPPE enhances each student's understanding, participation, and commitment to enhancing the health of an ambulatory population. Students will work with healthcare professionals within a health care system and utilize stratification strategies to provide ambulatory population management activities. Students will evaluate electronic health information and document assessments and plans using standardized progress notes. Students will contact patients to provide information and education pertinent to health promotion and disease prevention and document those discussions in electronic health records. Work is conducted under the supervision of a licensed pharmacist. Prerequisites: PHAR 251, Pharmacy Intern License, and CPR Certification.

PHAR 555. Hospital IPPE. 2 Units.

The Hospital IPPE course enhances each student's understanding of the role of pharmacists throughout the medication use process in the hospital setting, with emphasis on pharmacy operations and administration, compounding, dispensing, and monitoring medications, regulatory and accreditation standards, communicating with patients and other health care professionals, and providing drug information.

PHAR 559. Health Care Outreach Introductory Pharmacy Practice Experience (HCO IPPE). 1 Unit.

Community health care outreach introductory pharmacy practice experiences are a method to enhance each student's understanding, participation, and commitment to enhancing the health of the public. Groups of students will work with community agencies and organizations in the development, organization, management, implementation, delivery, and assessment of health care outreach activities in local communities. Many of these activities will be managed through professional student organizations. Students will also reflect on their activities to determine the impact of these activities on the public and on themselves. Prerequisites: Pharmacy Intern License and CPR Certification.

PHAR 621. Pharmacy Law and Regulatory Affairs. 3 Units.

Discussions and analysis of federal and state law, regulations, standards of practice, case law and ethics related to pharmacy practice and drug development and distribution. The focus is California laws and regulations that govern the practice of pharmacy in community and institutional settings.

PHAR 631. APPE Preparedness. 1 Unit.

This course brings the critical thinking, problem-solving skills, and knowledge acquired throughout the curriculum together to ensure students are best prepared to transition to the Advanced Pharmacy Practice Experiences (APPEs). Focus will be on effective workup of complex patient cases, applied pharmacokinetics, case presentation, SOAP/chart note documentation, drug information response, medication reconciliation, antimicrobial de-escalation, and common clinical protocols used at practice sites. Prerequisites: PHAR 521, PHAR 531, PHAR 532, PHAR 541, PHAR 542, PHAR 543, PHAR 544.

PHAR 632. Case Based Practice IV. 1 Unit.

This is part of a series of Case Based Practice courses that develop problem solving and critical thinking skills. Knowledge acquired through the Integrated Clinical Sciences series will be applied in cumulative fashion through the workup of complex patient cases utilizing the pharmacist patient care process, presentation, discussion and documentation. Prerequisites: PHAR 531, PHAR 532, PHAR 541, PHAR 542, PHAR 543, and PHAR 544.

PHAR 641. Integrated Clinical Sciences: Immune, Inflammatory & Pain Disorders. 3 Units.

This integrated clinical science course develops a student's abilities to manage patients with common immune, pain, dermatologic, and ophthalmic conditions. Prior course work in the foundational sciences serve as the basis for the development of knowledge and application of pertinent pathophysiology, pharmacology, medicinal chemistry and therapeutics. Prerequisites: PHAR 531, PHAR 532, PHAR 541, PHAR 542, PHAR 543, and PHAR 544.

PHAR 642. Integrated Clinical Sciences: Pediatrics and Geriatrics. 2 Units.

This is an integrated course with both basic and clinical sciences. Students will develop the abilities to assess and develop pharmacy patient care plans (PPCP) for specific pediatric and geriatric conditions, diseases, disorders, and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures, readings, and discussion will enable students to develop the abilities to assess, manage, and document simple to complex patients. Prerequisites: PHAR 531, PHAR 532, PHAR 541, PHAR 542, PHAR 543, and PHAR 544.

PHAR 643. Integrated Clinical Sciences: Oncology. 4 Units.

This integrated clinical science course develops students' abilities to manage patients with solid cancer and hematological malignancy or patients with high risk to have these conditions. Prior course work in the foundational sciences serve as the basis for the development of knowledge and application of pertinent pathophysiology, pharmacology, medicinal chemistry, and therapeutics. Prerequisites: PHAR 531, PHAR 532, PHAR 541, PHAR 542, PHAR 543, and PHAR 544.

PHAR 644. Integrated Clinical Sciences: Critical Care & Emergency Medicine. 1 Unit.

Students will develop the abilities to assess and develop patient-specific care plans for patients in emergency or critical care units with various diseases, disorders, and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures and readings will provide the foundational information to understand and apply pathophysiologic and pharmacologic principles. Lectures, readings, labs, and case applications will enable students to develop the abilities to assess, manage, and document simple to complex patients. Prerequisites: PHAR 531, PHAR 532, PHAR 541, PHAR 542, PHAR 543, and PHAR 544.

PHAR 669. Interprofessional Education. 1 Unit.

This course is a longitudinal course which will provide pharmacy students with an opportunity to learn and collaborate with students from other health professions. These activities will generally include students from medical schools, nurse practitioner program, physician assistant program, dentistry, and/or other allied health professions. Prerequisite: Doctor of Pharmacy student.

PHAR 751. Advanced Pharmacy Practice Experience (APPE) Capstone I. 1 Unit.

This is the first of a required, two-semester sequential course for pharmacy students during their advanced pharmacy practice experiences. This course is designed to: 1) prepare students for practice in the profession of pharmacy, 2) build upon didactic knowledge gained previously in the Doctor of Pharmacy program, and 3) help students become life-long learners through self-assessment and reflection on learning. Course activities may include but are not limited to board exam preparation, quizzes, case presentations, disease state and/or drug information presentations/discussions, journal club presentations, self-reflection assignments, and/or guest lectures by pharmacists and other healthcare practitioners in addition to other region-specific activities. Prerequisites: All First and Second Year Required Doctor of Pharmacy Courses.

PHAR 752. Advanced Pharmacy Practice Experience (APPE) Capstone II. 1 Unit.

This is the second of a required, two-semester sequential course for pharmacy students during their advanced pharmacy practice experiences. This course is designed to: 1) prepare students for practice in the profession of pharmacy, 2) build upon didactic knowledge gained previously in the Doctor of Pharmacy program, and 3) help students become life-long learners through self-assessment and reflection on learning. Course activities may include but are not limited to board exam preparation, quizzes, case presentations, disease state and/or drug information presentations/discussions, journal club presentations, self-reflection assignments, and/or guest lectures by pharmacists and other healthcare practitioners in addition to other region-specific activities. Prerequisites: Completion of first and second year Doctor of Pharmacy Courses.

PHAR 753. Internal Medicine Advanced Pharmacy Practice Experience (APPE). 6 Units.

A clinical pharmacy practice rotation at an affiliated health care facility with emphasis on the medical management of disease states, rational drug therapy, and patient monitoring using the pharmaceutical care practice model in the care of inpatients. Prerequisites: All first and second year required Doctor of Pharmacy courses, Pharmacy Intern License, and CPR Certification.

PHAR 754. Ambulatory Care Advanced Pharmacy Practice Experience (APPE). 6 Units.

A clinical pharmacy practice rotation at an affiliated health care facility with emphasis on the medical management of disease states, rational drug therapy, and patient monitoring using the pharmaceutical care practice model in the care of outpatient and ambulatory care clinic patients. Prerequisites: All first and second year required Doctor of Pharmacy courses, Pharmacy Intern License, and CPR Certification.

PHAR 755. Hospital Pharmacy Advanced Pharmacy Practice Experience (APPE). 6 Units.

A clinical pharmacy practice rotation at an affiliated health care facility with emphasis on selecting drug products, compounding, dispensing, monitoring and evaluation, as well as understanding pharmacy operations and administration, communicating with patients and other health professionals, and providing drug information. Prerequisites: All first and second year required Doctor of Pharmacy courses, Pharmacy Intern License, and CPR Certification.

PHAR 756. Community Pharmacy Advanced Pharmacy Practice Experience (APPE). 6 Units.

A clinical pharmacy practice rotation at an affiliated community pharmacy facility with emphasis on selecting drug products, compounding, dispensing, monitoring and evaluating, communicating with patients, caregivers, and other health professionals, providing drug information, promoting public health, and learning pharmacy operations and management. Prerequisites: All first and second year required Doctor of Pharmacy courses, Pharmacy Intern License, and CPR Certification.

PHAR 757. Advanced Pharmacy Practice Experience (APPE) Elective I. 6 Units.

This is the first of two elective advanced pharmacy practice experiences that allow the student to explore and develop abilities in an area of interest within the health care industry. This experience may be in a variety of biomedical settings that include patient care, administration, health care system, public health, governmental agency, professional organization, research, academic, pharmaceutical industry, and other biomedical or health related settings. Prerequisites: All first and second year required Doctor of Pharmacy courses, Pharmacy Intern License, and CPR Certification.

PHAR 758. Advanced Pharmacy Practice Experience (APPE) Elective II. 6 Units.

This is the second of two elective advanced pharmacy practice experiences that allow the student to explore and develop abilities in an area of interest within the health care industry. This experience may be in a variety of biomedical settings including patient care, administration, health care system, public health, governmental agency, professional organization, research, academic, pharmaceutical industry, and other biomedical or health related settings. Prerequisites: All first and second year required Doctor of Pharmacy courses, Pharmacy Intern License, and CPR Certification.

PHAR LBS1. Pharmacy Labs. 0 Units.

Other Pharmacy Courses

PHRM 100. Continuous Registration. 0 Units.

PHRM TPR. ELEC.: 1-6 Units.

Physiology Pharmacology Courses

PHYP 111. Veterinary Pharmacology. 2 Units.

Students examine the application of pharmacology to the problems of animal health. The course is one two-hour lecture per week.

PHYP 113. Teaching Anatomy, Physiology and Pathophysiology Laboratory. 1 Unit.

This course provides academic credit for second-year PharmD students who assist with teaching laboratory and discussion sessions for first-year Anatomy, Physiology, and Pathophysiology courses. Assistance may be for demonstrations, wet laboratory procedures, or discussion sessions for PharmD courses taught by faculty in the Physiology & Pharmacology Department. Prerequisites: PHRM 122 or PHRM 123 with a C or better; permission of instructor; must not be on probation or received no credit in required pharmacy courses. The course may be repeated twice for credit.

PHYP 114. Teaching Anatomy and Physiology Laboratory II. 2 Units.

This course provides academic credit for second year students who assist with teaching laboratory and discussion sessions for first-year Anatomy and Physiology courses. Assistance may be for demonstrations, wet laboratory procedures, or discussion sessions in PHAR 125. Students must receive a grade of "C" or better in the course in which teaching assistance is provided. Permission of instructor.

PHYP 130. Science Education Experiences (SEE). 2 Units.

The course prepares second year pharmacy students for outreach to elementary school classrooms to teach science information and concepts. Students receive training to prepare for the classroom environment and then make 6-7 visits to assigned classrooms to present science information and direct hands-on science activities. Open to second year students in the Doctor of Pharmacy program with good academic standing.

PHYP 141. Parkinson's Disease Research. 1-4 Units.

This elective course is for students wishing to pursue scientific research into the neurobiology and genetics of Parkinson's disease. Credits are by arrangement and will be determined at the beginning of each semester by the nature of the research project and by the time schedule of each student. Students are expected to commit to 3 hours of lab research per week per unit, with the understanding that the numbers of hours of units will be directly proportionate to the relative complexity of the assigned research project. Participation will be documented by the students and by the instructor. Prerequisites: Doctor of Pharmacy student or permission of instructor.

PHYP 142. Pharmacogenomics. 1 Unit.

This elective course will introduce basic concepts, clinical applications and ethical considerations of pharmacogenomics. Students will learn about the genetic basis of inter-individual variability in response to drugs and drug pharmacokinetics, and how pharmacotherapy can be individualized based on a person's genetic makeup to optimize its effectiveness and minimize adverse effects. Prerequisite: Second year Doctor of Pharmacy student or permission of instructor.

PHYP 158. Fundamentals of Toxicology. 2 Units.

An introduction to the general principles of toxicology. The toxic effects of various classes of non-medical chemicals are discussed with emphasis on the mechanisms of action, sites of action, signs and symptoms of toxicity and the treatment of toxicity. Prerequisites: PHRM 135 and PHRM 136.

PHYP 191. Independent Study. 1-4 Units.

PHYP 193. Undergraduate Independent Study. 1-4 Units.

PHYP 197. Independent Research. 1-4 Units.

PHYP 197D. Independent Research. 1-4 Units.

PHYP 291. Independent Study. 1-4 Units.

PHYP 293. Special Topics. 1-4 Units.

PHYP 297. Independent Research. 1-4 Units.

Pharmaceutics Med. Chem Courses

PMED 097. Independent Research. 1-5 Units.

PMED 097A. Independent Research. 1-5 Units.

PMED 111A. Teaching the Pharmaceutical Dosage Forms Laboratory. 1 Unit.

This course is designed to train pharmacy students to supervise a laboratory as a teaching assistant. This course is open to students who have completed all first year courses and are in good standing.

PMED 111B. Teaching the Pharmaceutical Dosage Forms Laboratory. 1 Unit.

A course designed to train pharmacy students in supervising a laboratory as a teaching assistant. This course will be open to students who have completed all first year courses and are in good standing.

PMED 121. Professional Communications and Interviewing. 1 Unit.

This course instructs students on the principles of professional communication and interviewing. After appropriate training, students participate in different aspects of the interview of candidates for the pharmacy program. At the end of their participation, students evaluate the program. Prerequisite: Doctor of Pharmacy Student.

PMED 122. Teaching Assistant for Professional Communications and Interviewing. 2 Units.

This course enables students to participate at a coordinator level in the process of professional communications and interviewing. Students are assigned specific coordinator roles and work in cooperation with the Office of Student and Professional Affairs, other students, and faculty in fulfilling those roles. Open to second year Doctor of Pharmacy students. Prerequisite: PMED 121.

PMED 129. Dynamics of Student Leadership. 2 Units.

Students explore and apply of basic leadership theories and processes which foster personal and interpersonal development via cognitive experiential classroom methods and mentoring relationships with experienced peer leaders. Professional standing.

PMED 131. Introduction to Dermatology. 2 Units.

This course is an integrated study of dermatological disorders with emphases on triage, medication options, and pharmaceutical care.

Professional standing. Prerequisites: PHAR 115.

PMED 132. Bench Research in Protein Chemistry and Molecular Biology. 1 or 2 Unit.

This elective course provides bench research experience for 1st and 2nd year pharmacy students and undergraduate students. Research will be related to biochemistry, protein chemistry, and molecular biology. Emphasis will be on the rationale and hypothesis for the experiment. Students will have hand on experience to conduct experiments and opportunities to present findings. Prerequisite: Permission from instructor.

PMED 135. PK/PD Modeling and Simulation with Simcyp Simulator. 1 Unit.

This course is designed to introduce the basic PK/PD modeling and simulation using the Simcyp simulator software. Prerequisites: Graduate student standing with successful completion of PCSP 223 or Professional students with successful completion of PHAR 213 and PHAR 311, or instructor permission. Students must not be on probation and must not have failed or received No Credit in any courses.

PMED 136. Making of Medicines: The Process of Drug Development. 1 Unit.

Drug discovery and development is very complex and may take up to 20 years and multiple steps to bring a medicine to patients. The medical expertise and processes that contribute to scientific-based drug development are often unfamiliar to students in science and health-related fields. This course addresses the need to increase understanding and awareness of the drug discovery and development process.

PMED 138. Lectures in Nuclear Pharmacy Science. 3 Units.

Students study radioactivity, radionuclides, and nuclear radiations. Topics include methods of detection and measurement of radiations as well as basic rules of use for nuclides and radioactive material.

PMED 143. Facilitating Biologic Mechanism Lab Sessions. 1 Unit.

This course provides academic units for second-year students who assist with teaching/facilitating laboratory discussion sessions for first-year Biological Mechanisms students. Open to second year PharmD students. Prerequisite: PHRM 113 or PHAR 113 with an "B" and permission of instructor.

PMED 153. Pharmaceutical Compounding. 2 Units.

A study of extemporaneously preparing, mixing, assembling, packaging, and labeling of non-sterile compounded prescription drug orders according to the art of the apothecary. Prerequisite: Doctor of Pharmacy student.

PMED 157. Peer Tutoring and Mentoring. 1 Unit.**PMED 164. Advances in Applied Pharmacokinetics. 2 Units.**

This course offers a systematic approach to a rational application of basic pharmacokinetics to patient specific clinical practice.

PMED 185. Cosmetics: Formulation and Function Lab. 1 Unit.

This hands-on course is an introduction to the formulation and function of cosmetic products for the hair, nails, skin, lips and eyes. Prerequisite: PMED 184.

PMED 191. Independent Study. 1-4 Units.**PMED 193. Undergraduate Independent Study. 1-4 Units.****PMED 197. Undergraduate Independent Study. 1-5 Units.**

This course is independent study that involves library and/or laboratory.

PMED 271. Design Thinking for Entrepreneurs. 2 Units.

The course will examine aspects of an entrepreneur's journey and the elements that would be needed in his/her toolbox to tackle challenges - from ideation to economic viability. This course will benefit anyone interested in working in the industry as lead scientists, entrepreneurs, program champions, investors, technology transfer agents etc. Students will be introduced to the steps needed to form and grow a company including access to capital, collaborators, legal, and partners. Topics include an overview of the global biotechnology industry, idea generation, business plan formulation, intellectual property, raising capital, human resources including board composition, regulatory strategy, and company exits.

PMED 272. Clinical Pharmacology in Drug Development. 2 Units.

The course will cover important aspects of clinical pharmacology related to drug development. This course will benefit anyone interested in learning how to bring a compound to approval. The course will be delivered by leading experts in the field, with case studies presented for each topic covered.

PMED 273. Marketing Principles and Applications for Pharma Entrepreneurs. 2 Units.

The course will cover all of the basic marketing principles, including the 4 P's (Product, Promotion, Price and Place) and how to apply them to real world situations. This includes understanding and assessing markets for new pharma/biotech products. Key marketing elements that will be critical as components in product development process, forming a new company, gaining investor support, and ultimately in successful commercialization will be explored. Discussions will be structured for the stages of drug development from preclinical through to Phase 3 and the typical marketing elements that are needed for each stage. Factors relevant to the value proposition, the competitive landscape, and adoption of a new medical product and how to manage these factors in the early design and development phases will be also be covered. Guest speakers will be included to provide a heightened understanding and real world insights.

PMED 274. Regulatory Science for Drug Development Scientists. 2 Units.

The course will cover underlying scientific principles that form the basis of federal regulations and guidance provided for drug development and approval. This course will benefit anyone interested in learning how to bring a drug product to approval. The course will be delivered by leading expert(s) in the field, with case studies for each topic covered.

PMED 291. Independent Study. 1-4 Units.**PMED 293. Special Topics. 1-3 Units.****PMED 297. Independent Research. 1-5 Units.**

Pharmacy Prof Devel Courses

PPDP 149U. Endocrine/Musculoskeletal Ther. 4 Units.

Students will develop the abilities to assess and develop patient-specific care plans for patients with endocrine, musculoskeletal, pain, dermatologic, and ophthalmic conditions, diseases, disorders, and drug-induced problems utilizing basic and applied pharmaceutical science abilities. Lectures, readings, and discussion will enable students to develop the abilities to assess, manage, and document simple to complex patients.

PPDP 191. Independent Study. 4 Units.

Pharmacy Practice Courses

PRAC 070. Clinical Experience Rotations. 18 Units.

PRAC 083. Beyond Top Drugs. 2 Units.

This course extends the student's knowledge and understanding of drug information by covering supplemental medications that are not included on the School of Pharmacy's current Top Drugs list, with emphasis on intravenous agents used in the inpatient hospital or specialized ambulatory care clinic setting. Drug information includes brand and generic names, general and pharmacologic drug class, indications, dosing and dosage formulation, common adverse effects, boxed warnings or contraindications, clinical pearls, and dosing calculations. Prerequisites: First or second year standing in the Doctor of Pharmacy program.

PRAC 101. Perspectives of Pharmacy I. 1 Unit.

This program-required course will serve as a foundational starting point for Pre-Pharmacy students who are just beginning their journey that is ultimately headed toward the Doctor of Pharmacy program. The course will introduce students to the Pre-Pharmacy Advantage Program and its academic foundation, skills necessary to succeed, the professional expectations and attributes of a Pharmacist, as well as survey the current pharmacy practice landscape and enable the student to begin formulating a plan toward academic and career success. Additionally, the course will introduce students to practice ethics, medical terminology, some basic pharmacy practice skill sets, and commonly used and encountered drugs. Prerequisites: First year, first semester Pre-Pharmacy Advantage Program students or with Instructor Approval.

PRAC 102. Perspectives of Pharmacy II. 2 Units.

This program-required course is part II of a course series where students will take a deeper look into professional expectations and attributes of a Pharmacist. Ongoing career development will include application and interview preparation and training. Students will resume learning medical terminology, will begin learning basic physical assessment and continue to develop basic pharmacy practice skill sets and commonly used and encountered drugs. Prerequisites: Second or third year, 4th or 6th semester Pre-Pharmacy Advantage Program students or with Instructor Approval. Should be taken in planned advancement time-frame.

PRAC 110. Developing Effective Learning Strategies. 1 Unit.

This elective course will provide students with information about how learning occurs, determining learning preferences, developing effective strategies, effective time management, and psychosocial/lifestyle factors that impact learning.

PRAC 116. Teaching Pharmacy Dosage Labs. 1 Unit.

This course will present an opportunity for 2nd year pharmacy student to review and reflect on the methods used to teach 1st year professional students the proper techniques for dispensing medications, compounding, and drug consultation. It will also provide students with the opportunity to contribute their thoughts on ways in which these methods may be improved.

PRAC 118. Professional Communication and Interviewing. 1 Unit.

This course enables students to participate in the process of professional communications and interviewing. Students are assigned specific interviewing and facilitator roles and work in cooperation with the Office of Student and Professional Affairs, other students, and faculty in fulfilling those roles.

PRAC 119. Teaching Assistant for Professional Communication and Interviewing. 2 Units.

This course enables students to participate at a coordinator level in the process of professional communications and interviewing. Students are assigned specific coordinator roles and work in cooperation with the Office of Student and Professional Affairs, other students, and faculty in fulfilling those roles. Prerequisite: Second Year Doctor of Pharmacy Student, minimum cumulative Pharmacy School grade point average of 2.7, approval of the instructor.

PRAC 120. Advanced Immunizations: Immunology and Influenza. 1 Unit.

This is an advanced course on immunizations that will emphasize the immunological basis for vaccine effectiveness and provide an in-depth review of the influenza virus and vaccines. Prerequisites: PHRM 111, PHRM 112, PHRM 113, PHRM 114, PHRM 115, PHRM 118; certification through APhA's Pharmacy Based Immunization Delivery training program.

PRAC 124. Developing Consumer Fact Sheets. 2 Units.

Students develop written communication skills geared towards consumers by writing consumer friendly fact sheets about relevant health topics. All facts sheets are submitted to the California State Board of Pharmacy for use at their discretion. Students receive acknowledgement for their contributions. Open to second year Doctor of Pharmacy students or those with permission of the instructor.

PRAC 127. Teaching the Drug Information Lab. 1 Unit.

PRAC 127A. RxTract Writer. 1 Unit.

Students write and publish pharmacotherapy reports in a newsletter format.

PRAC 127B. RxTract Writer. 1 Unit.

Students write and publish pharmacotherapy reports in a newsletter format.

PRAC 127C. RxTract Writer. 1 Unit.

Students write and publish pharmacotherapy reports in a newsletter format.

PRAC 127D. RxTract Writer. 1 Unit.

Students write and publish pharmacotherapy reports in a newsletter format.

PRAC 127E. RxTract Writer. 1 Unit.

Students write and publish pharmacotherapy reports in a newsletter format.

PRAC 127F. RxTract Writer. 1 Unit.

Students write and publish pharmacotherapy reports in a newsletter format.

PRAC 129. Dynamics of Student Leadership. 2 Units.

Students explore and apply of basic leadership theories and processes which foster personal and interpersonal development via cognitive experiential classroom methods and mentoring relationships with experienced peer leaders. Professional standing.

PRAC 130. Practice of Pharmacy- A Multicultural and International Approach. 1-2 Units.

The focus of this course is to develop a culturally competent and multifaceted approach to patient care in a diverse cultural and dynamic healthcare setting. This course takes into consideration the various health and illness needs, religious beliefs, complementary health practices, cultural orientation of various ethno cultural groups as well as the dynamics of transcultural communications between patients and healthcare professionals. Prerequisite: successful completion of semester 1 in the Doctor of Pharmacy program or permission of instructor.

PRAC 131. Managed Care: P&T Competition. 1-2 Units.

This course focuses on the practical and hands-on skills of formulary management through understanding the steps involved in evaluating the AMCP (Academy of Managed Care Pharmacy) Dossier format of pharmaceutical products, literature search and evaluation, interpreting pharmacoeconomic/cost-impact analysis, Comparative Effectiveness Research (CER), monograph creation and presentation to a Pharmacy and Therapeutics (P&T) Committee. Open to Doctor of Pharmacy students only.

PRAC 132. Advanced Immunizations: Introduction to Travel Medicine. 1 Unit.

Introduction to the practice of travel medicine with an emphasis on vaccines and pharmacological prophylaxis and treatment of tropical diseases. Prerequisites: PHAR 111, PHAR 115, PHAR 116, PHAR 117, PHAR 121, PHAR 122; certification through APhA's Pharmacy Based Immunization Delivery training program.

PRAC 133. Adv IMM Introduction to Travel Medicine II. 1 Unit.

An introduction to the practice of travel medicine with an emphasis on parasitic and non-vaccine preventable tropical diseases. Prerequisites: May be taken concurrently with PRAC 132. PHAR 131, certification through APhA's Pharmacy Based Immunization Delivery training program.

PRAC 134. Past, Present and Future of Vaccine Preventable Diseases. 1 Unit.

A general overview of the successes and issues surrounding vaccine preventable diseases with topics ranging from small pox eradication to the therapeutic use of vaccines for non-infectious diseases. Prerequisites: PHAR 131.

PRAC 135. Student Journal Club. 2 Units.

This elective course is designed to help students practice and master 1) literature retrieval and evaluation skills and 2) information dissemination skills that help prepare them for rotations and the rotation requirement of reviewing and presenting journal articles. Students select, review, analyze and present articles each week that are related to topics of interest in other courses they are taking. Prerequisite: PHRM 121 and 3rd semester standing (or higher) in the Doctor of Pharmacy program.

PRAC 136. Entrepreneurial Pharmacy Practice. 2 Units.

An overview of entrepreneurship in general, the traits of an entrepreneur, current topics in entrepreneurship with a specific focus on pharmacy practice and patient care programs. The course teaches the participants a comprehensive set of critical skills needed to develop a profitable business project. Preference is given to students enrolled in the Entrepreneurial Program. Prerequisite: PHRM 111.

PRAC 137A. RxTract Editor. 2 Units.

Students organize and edit reports that are published in a newsletter format. Prerequisite is enrollment as a second year PharmD student.

PRAC 137B. RxTract Editor. 2 Units.

Students organize and edit reports that are published in a newsletter format. Prerequisite is enrollment as a second year PharmD student.

PRAC 137C. RxTract Editor. 2 Units.

Students organize and edit reports that are published in a newsletter format. Prerequisite is enrollment as a second year PharmD student.

PRAC 138. Behavioral Medicine in Pharmaceutical Care. 1 Unit.

This course will cover the basic principles of behavior, behavioral medicine, and health psychology. In addition, the application of these principles will be demonstrated through examples from disease states such as diabetes, asthma, chronic pain, cardiovascular diseases and cancer. Professional standing.

PRAC 139. Health Literacy: Fundamental Skills for Patient Care. 1-2 Units.

The course explore the link between literacy and health in the U.S. and how poor health literacy impacts access to health information and quality health care services. Students practice writing and speaking in plain language, and consider the Internet as a vehicle for achieving consumer health information literacy. The course provides an overview of the adult literacy system in the U.S. and explores opportunities for collaboration across fields. Prerequisites: PHRM 111, PHRM 112, PHRM 115, PHRM 118.

PRAC 140. Healthcare Finance: Pharmacy Applications. 2 Units.

Healthcare Finance offers an introduction to accounting, financial theory and practice in health care settings. It is designed to familiarize students with financial concepts and issues that confront managers in the health and pharmaceutical sectors. Second year standing in the Doctor of Pharmacy program or permission of instructor.

PRAC 141. Medicare Part D and MTM - Application and Outreach. 2 Units.

This course focuses on examining the Medicare Part D prescription drug benefit, utilization of the Medicare Plan Finder Tool and Medication Therapy Management (MTM). We will also focus on incorporating patient-specific considerations and evaluate the economic implications of Medicare Part D plan selection by beneficiaries. We will also train students about the process and how to perform MTM.

PRAC 142. Intro to the Medicare Benefit & Medication Therapy Management. 2 Units.

A course which focuses on understanding the eligibility, structure, financing and administration of the Medicare benefit. The prescription drug benefit ("PartD") is discussed in detail and topics such as formulary requirements, restrictions, coverage determination and appeals are explored. Cost-minimization strategies including the late-enrollment penalty, Medicaid, the low-income subsidy, and pharmaceutical assistance programs are highlighted. Students also learn about the most common medications filled by Medicare beneficiaries, have a series of mini-modules on prevalent chronic conditions in the senior population, learn how to use the MTM billing platform and conduct MTM services. Prerequisites: Second year PharmD student or instructor permission. Meet the minimum site and IPPE requirements, including but not limited to criminal background checks, drug and tuberculosis screening, up to date personal immunization for healthcare provider, annual completion of University approved HIPAA training course, APhA immunization certificate, current blood borne pathogen certificate, current AHA CPR for healthcare provider certificate and valid pharmacy intern license. Complete experiential requirements also include but are not limited to proof of medical and auto insurance and signed student photo release form.

PRAC 143. Health Care Outreach IPPE- Medicare Part D. 1 Unit.

Community health care outreach introductory pharmacy practice experiences are a method to enhance each student's understanding, participation, and commitment to enhancing the health of the public, with a focus on enhancing Medicare beneficiary understanding and enrollment in a Medicare Part D prescription drug plan. Groups of students work to develop, organize, manage, implement, deliver, and assess Medicare Part community outreach activities in settings serving Medicare beneficiaries. This course is given in conjunction with PRAC 141 Medicare Part D-Fundamentals, Application and Outreach. Students also reflect on their activities to determine the impact of those activities on both the beneficiaries they serve and on themselves. Successful completion of this course satisfies completion of PHRM 169 Health Care Outreach Introductory Pharmacy Practice Experiences. Prerequisites: a passing grade in all required courses in Semester 1 of the Doctor of Pharmacy program or permission of the instructor, current Pharmacy Intern license, and current blood borne pathogen and CPR certifications. PRAC 141 with concurrency.

PRAC 144. Medicare D for Dvlp Disabled. 1-2 Units.

This course will focus on providing Medicare Part D optimization services to the developmentally disabled population. We will focus on incorporating population-specific considerations and evaluate the economic implications of Medicare Part D plan selection in this underserved population. We will discuss Medicare only, Dual-Eligible, and beneficiaries who qualify to receive Home and Community Based Services as it relates to their Part D prescription drug costs. Students will be instructed on key therapeutic and humanistic considerations when serving the disabled population and will utilize platforms such as HomeMeds to optimize medication adherence. Prerequisites: 2nd Year Doctor of Pharmacy Student, PRAC 141, PRAC 142, Instructor permission.

PRAC 150. Careers in the Pharmaceutical Industry. 1 Unit.

This course will serve as an introductory course for the development of students who are interested in pharmaceutical industry fellowships and/or a career in the pharmaceutical industry. During the course students will learn about the recruitment process used by pharmaceutical and biotech companies. The course will expose students to the daily work of professionals in different functions of the pharmaceutical industry. Students will be linked with current and past pharmaceutical industry fellows and learn about the pharmacist's role in molecule development, medical science, regulatory affairs, clinical operations, clinical sciences, and the emerging global landscape of clinical trials. In addition, the course will be prepared for the rigors of the application process at the American Society of Health-System Pharmacists Mid-Year Clinical Meeting.

PRAC 151. Intro to Pediatrics. 2 Units.

Students are introduced to the pediatric patient, physiologic considerations, population-specific disease states and pharmacotherapy. Prerequisites: successful completion of all courses in the first three semesters of current Doctor of Pharmacy curriculum and current enrollment in fourth semester coursework or higher.

PRAC 152. Practicum I Teaching Assistant. 1 Unit.

This course presents an opportunity for 2nd year pharmacy student to act as teaching assistants (TA) and to help teach and foster learning for 1st year professional students in the practicum course. The practicum experiences relate to effective patient counseling for the most commonly prescribed and select non-prescription medications, pulmonary devices, smoking cessation products, in addition to application of appropriate techniques for measurement of blood pressure, blood glucose, and administration of immunizations for adults. Prerequisite: Permission of the instructor and a grade of B or better (or grade of Pass if Pass/No Credit) in PHRM 118, pharmacy students in the 2nd year of their professional studies. Students must not be on probation and must not have failed or received no credit in any required pharmacy course.

PRAC 153. Introduction to Spanish for the Pharmacy Professional I. 1 Unit.

This elective course is designed to develop a beginning level competence in Spanish for use in pharmacy practice settings. Basic communication skills related to everyday situations in the pharmacy will be presented using lecture, interactive laboratory sessions, and online and textbook listening and speaking exercises. Vocabulary, phrases, questions, patient assessment, and patient interview for basic conditions and OTC counseling will be presented and practiced. The goal of this course is not to develop fluency but to introduce the student to the Spanish language and its application in the pharmacy and also to develop a foundation for lifelong learning.

PRAC 154. Introduction to Spanish for the Pharmacy Professional I - Teaching Assistant. 1 Unit.

The course is designed to present an opportunity for pharmacy students who are fluent or proficient in the Spanish language to act as teaching assistants and assist other pharmacy students to learn Spanish for the Pharmacy Professional. Teaching assistants will meet with the instructor prior to each class session for class preparation and will then participate during class sections.

PRAC 155. Biotechnology and Product Development. 2 Units.

This course offers the students comprehensive information and insights about the science of biotechnology, as well as a focus on product development, and the differentiations of biological from drugs. Actual industry experiences are provided. The students also gain an understanding of key biological product attributes, and the business and science practices in the biopharma industry, plus regulatory issues. Through a student presentation, an understanding of a "Total Product Profile", is provided, which is essential in product development examining the clinical parameters of diseases in healthcare systems with the product applications, along with business potential of a biological product. Prerequisite: Second year Doctor of Pharmacy student.

PRAC 156. Opportunities in Pharmacy Practice. 1 or 2 Unit.

Students learn personal and business tools to make the transition from the academic environment to the daily practice of pharmacy, with an emphasis on entrepreneurship.

PRAC 157. Peer Tutoring and Mentoring. 1 Unit.

This course is designed to provide training for students to become effective tutors for courses in the Pharmacy curriculum and/or peer mentors for the Office of Academic Success and Instructional Support. Students will be in one of two tracks: tutoring for specific courses or serving as peer mentors for the OASIS office. Prerequisite: Cumulative GPA of 3.0 or better.

PRAC 158. Population Health Management Introductory Pharmacy Practice. 1 Unit.

Population health management introductory pharmacy practice experiences are a method to enhance each student's understanding, participation, and commitment to enhancing the health of a population. Students will work with healthcare professionals with the VA Northern California Health Care System (VANHCSS) to coordinate, deliver and measure the effectiveness of population management activities. Students will utilize VA Dashboard to identify populations at risk. Students will contact and counsel those patients at risk, and document those discussions and recommendations in electronic health records under the supervision of a licensed pharmacist. Completion of this course will satisfy the requirements for PHRM 169. Prerequisites: PHRM 111, PHRM 112, PHRM 113, PHRM 114, PHRM 115, PHRM 118.

PRAC 159. Pharmaceutical Care for Ambulatory Care Clinic Patients. 1 Unit.

A course which focuses on education and actively involving students in the provision of pharmaceutical care provided to patients through our four clinics [asthma, osteoporosis & falls, pharm. care (which includes smoking cessation), and wellness] and our associated education, assessment, and interventional community programs. Prerequisites: Doctor of Pharmacy student. Meet the minimum site and IPPE requirements, including but not limited to criminal background checks, drug and tuberculosis screening, up to date personal immunization for healthcare provider, annual completion of University approved HIPAA training course, APhA immunization certificate, current blood borne pathogen certificate, current AHA CPR for healthcare provider certificate and valid pharmacy intern license. Complete experiential requirements also include but are not limited to proof of medical and auto insurance and signed student photo release form.

PRAC 160. Pain Management. 2 Units.

Students examine pharmaceutical care for the patient with pain disorders and focus on pathophysiology, pharmacology and toxicology, pain assessment skills, appropriate medication therapy, side effect management and non-medication management of these disorders. Prerequisites: successful completion of all courses in semesters 1-4 of the Doctor of Pharmacy program.

PRAC 164. Applied Therapeutics and Managed Care. 2 Units.

This course is a blend of therapeutics and pharmacoeconomics that apply the principles of outcome research situations in managed care (real-life situations). Open to second year students in the Doctor of Pharmacy program.

PRAC 166. Becoming an Advanced Practice Pharmacist (APP) Practitioner. 1 Unit.

This course will provide students with strategies to advance pharmacy practice and become an integral part of the inter-professional health care team. Prerequisite: First or Second year standing in the pharmacy program.

PRAC 167. Pursuit of Residency or Fellowship Opportunities I. 1 Unit.

This course will serve as an introductory course for the development of students who are interested in pursuing residency or fellowship opportunities. During the course students will learn about various aspects involved in post-graduate training focused on residency and fellowship opportunities. As the basis of residency and fellowship knowledge is developed, the course will tackle various aspects related to finding the right residency or fellowship as well as securing and excelling in the residency or fellow application process. In addition, students will be linked to peers and mentors who are already pursuing residency/fellowship opportunities as well as alum during their post-graduate training.

PRAC 168. Introduction to Spanish for the Pharmacy Professional II. 1 Unit.

This elective course is designed to further develop competence in Spanish for use in pharmacy practice settings. Basic communication skills related to everyday situations in the pharmacy will be presented using lecture, interactive laboratory sessions, and online and textbook listening and speaking exercises. Vocabulary, phrases, questions, patient assessment, and patient interview for basic conditions and OTC counseling will be presented and practiced. The goal of this course is to continue to develop pharmacist skills using the Spanish language and its application in the pharmacy and also to develop a foundation for lifelong learning. Prerequisite: PRAC 153 with a 'C' or higher.

PRAC 169. Introduction to Spanish for the Pharmacy Professional II - TA. 1 Unit.

This course is designed to present an opportunity for pharmacy students who are fluent or proficient in the Spanish language to act as teaching assistants and assist other pharmacy students to learn in the class Spanish for the Pharmacy Professional. Teaching assistants will meet with the instructor prior to each class session for class preparation and will then participate in and lead class sessions. Prerequisites: First or second year standing in the pharmacy program. Current fluency or proficiency in Spanish as demonstrated to the course instructor. Students must not be on probation and must not have failed or received no credit in any required pharmacy course. Enrollment as a Spanish teaching assistant will be by permission of the instructor.

PRAC 170. Introduction to the Diabetes Prevention Program. 1 Unit.

This course will focus on understanding the eligibility criteria, components, and delivery of the CDC's National Diabetes Prevention Program (DPP). Lifestyle changes for individuals with prediabetes will be discussed extensively, with a focus on healthy eating and physical activity. Topics including stress management, coping strategies, and motivational interviewing will also be covered. The sociodemographic implications on diabetes-related disparities will be discussed. Students will gain experience with facilitating community-based group classes for people with prediabetes. Students will also learn about reimbursement policies for federal programs delivering the DPP curriculum. Prerequisites: 1st year or 2nd year Pharm.D. student, with instructor permission. Meet the minimum site and IPPE requirements, including but not limited to criminal background checks, drug and tuberculosis screenings, up to date personal immunizations for healthcare providers, annual completion of University-approved HIPAA training course. Complete experiential requirements also include, but are not limited to, proof of medical and auto insurance, and signed student photo release form.

PRAC 172. Social Determinants of Health and Health Disparities. 2 Units.

This elective course is designed to enhance student understanding of social determinants of health and health disparities by extending content from other courses in order to meet curricular, student, and societal needs. (DVSU, GEDI)

PRAC 183. Beyond Top Drugs. 2 Units.

This course extends the student's knowledge and understanding of drug information by covering supplemental medications that are not on the School of Pharmacy's current Top Drugs list, with emphasis on intravenous or inpatient agents. Drug information includes brand and generic names, general and pharmacologic drug class, indication or common uses, common side effects, boxed warnings, patient counseling, and dosing calculations. Prerequisites: First or second year standing in the Doctor of Pharmacy program. PHAR 251 Community I IPPE.

PRAC 191. Independent Study. 1-4 Units.

PRAC 193. Undergraduate Independent Study. 4 Units.

PRAC 197. Independent Research. 1-4 Units.

PRAC 201. Diabetes Prevention Program: Advanced Training. 1-2 Units.

This course will focus on understanding and applying information regarding the eligibility criteria, components, and delivery of the CDC's National Diabetes Prevention Program (DPP). Students will successfully complete self-paced training to become certified as Lifestyle Coaches of the DPP. Students will apply knowledge gained in PRAC 170 (Introduction to the Diabetes Prevention Program) to support DPP participants in achieving their weight loss and exercise goals to help prevent or delay the development of type 2 diabetes. Students will deliver information related to healthy eating, physical activity, stress management, and coping strategies. Students will implement motivational interviewing tactics as they facilitate group-based discussions among DPP participants. Students will continue to build upon communication and leadership skills through peer teaching as they work with and mentor students enrolled in PRAC 170. Prerequisite: By permission only.

PRAC 202. Personal Finance. 1 Unit.

Through lecture and student interaction/discussion, the following topics will be presented: Investment risk management and mitigation which will involve goal setting, self-education, assumption of risk, decision ownership, experience, team building, and buying strategies. Discuss the concept of return on investment, evaluating the appropriate buying strategies, and understand the concepts of diversification and concentration. Taxes, Assessments, and Fees: Federal, State, and local. Understand the implications of taxes on their overall net worth. Net worth: elements of and calculations to determine your net worth and understand where they are, financially, to any given personal or family goal. Business entities: Understand basic business entities and which one is best for their situation. Also understand the advantages, disadvantages and where these come into play in the big financial picture. Estate Planning: Basics on what to consider when the time comes and why this step is crucial for long term financial security. Insurance: Understand the nuts and bolts of what insurance is and under what circumstances it is or is not necessary. Business partners and partnerships: understand why they are important, who should be on your team, and considerations of evaluating who is a good and not so good fit for your needs. Retirement versus non-retirement accounts: Understand what is the difference, implications on taxes paid, and what balance you need to feel comfortable. Business planning, financing, marketing and sales: Basic primer on opening a business. All others per permission of the instructor. Prerequisites: P1 or P2 student status within the School of Pharmacy.

PRAC 203. Rx-Tracts Pharmacy Report Writers. 1 Unit.

Student should be in "good" academic standing. Successful GPA above 2.5 and completion of semester one of the curriculum.

PRAC 204. Rx-Tracts Pharmacy Report Editors. 2 Units.

Student should be in "good" academic standing. Successful GPA above 2.5 and completion of semesters one and two of the curriculum.

PRAC 291. Independent Study. 1-4 Units.

PRAC 293. Special Topics. 1-5 Units.

PRAC 297. Independent Research. 1-4 Units.