# DOCTOR OF PHARMACY (PHARMD)

Visit program website. (https://pharmd.ucsf.edu/about/)

Degree Offered: Doctor of Pharmacy Program Leadership: Conan MacDougall, PharmD, MAS, Co-Vice Dean Igor Mitrovic, MD, Co-Vice Dean Admissions Inquiries: Joel W. Gonzales, Director of Admissions

## **Program Description**

The UCSF PharmD degree program prepares graduates to be academically and professionally ready for careers in pharmacy practice as caring, patient-centered experts in the safe and effective use of medicines.

## **Admission Requirements**

- Minimum GPA of 2.8
- · Minimum completion of 88 quarter units or 59 semester units
- For specific course requirements please see pharmd.ucsf.edu/ admissions/reqs (https://pharmd.ucsf.edu/admissions/reqs/)

## Learning Outcomes

#### **CAPE 2013 Educational Outcomes**

#### Domain 1 - Foundational Knowledge

**1.1. Learner (Learner):** Develop, integrate, and apply knowledge from the foundational sciences (i.e., *pharmaceutical, social / behavioral / administrative,* and *clinical sciences*) to evaluate the scientific literature, explain drug action, solve therapeutic problems, and advance population health and *patient-centered care*.

#### Domain 2 - Essentials for Practice and Care

**2.1. Patient-centered care (Caregiver):** Provide *patient-centered care* as the medication expert (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans, and document activities).

**2.2. Medication use systems management (Manager):** Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems.

**2.3. Health and wellness (Promoter):** Design prevention, intervention, and educational strategies for individuals and communities to manage chronic disease and improve health and wellness.

2.4. Population-based care (Provider): Describe how *population-based* care influences *patient-centered care* and influences the development of practice guidelines and evidence-based best practices.

#### **Domain 3 - Approach to Practice and Care**

**3.1. Problem solving (Problem Solver):** Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.

**3.2. Educator (Educator):** Educate all audiences by determining the most effective and enduring ways to impart information and assess understanding.

**3.3. Patient advocacy (Advocate):** Assure that patients' best interests are represented.

**3.4. Interprofessional collaboration (Collaborator):** Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.

**3.5. Cultural sensitivity (Includer):** Recognize *social determinants of health* to diminish disparities and inequities in access to quality care.

**3.6. Communication (Communicator):** Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization.

#### **Domain 4 – Personal and Professional Development**

**4.1. Self-awareness (Self-aware):** Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.

**4.2. Leadership (Leader):** Demonstrate responsibility for creating and achieving shared goals, regardless of position.

**4.3. Innovation and entrepreneurship (Innovator):** Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.

**4.4. Professionalism (Professional):** Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

#### **UCSF Interprofessional Educational Outcomes 2015**

The goal of IPE at UCSF is rooted in a set of common graduation milestones, which have been adopted by every professional school and program. By graduation, every health professions learner will be able to:

**IPE-1.** Use the knowledge of one's own role and the roles of other health professionals to appropriately assess and address the health care needs of the patients and populations served.

**IPE-2**. Communicate with other health professionals in a responsive and responsible manner that supports a collaborative approach to the maintenance of health and the treatment of disease in individual patients and populations.

**IPE-3**. Work with other health professionals to establish and maintain a climate of mutual respect, dignity, diversity, ethical integrity, and trust.

pharmd.ucsf.edu/curriculum/outcomes (https://pharmd.ucsf.edu/ curriculum/outcomes/)

## **Additional Information**

#### **Career Outcomes**

 https://pharmd.ucsf.edu/about/grad-rate-performance (https:// pharmd.ucsf.edu/about/grad-rate-performance/)

### **Degree Requirements**

To graduate, candidates for the Doctor of Pharmacy degree must:

a. Complete all required didactic and experiential coursework with a passing grade as established by policies of the Curriculum and Educational Policy Committee.

- b. Complete all required didactic and experiential Interprofessional coursework with a passing grade as established by policies of the Interprofessional Education Classroom Committee.
- c. Meet or exceed all graduation requirements as judged by the Subcommittee on Student Progress.
- d. Be recommended for the degree to the Faculty Council.
- e. Show evidence of possessing satisfactory professional qualifications.
- f. Register and complete no fewer than 12 quarters.
- g. Pay all fees and financial obligations to the University.
- Fulfill the general regulations (https:// senate.universityofcalifornia.edu/bylaws-regulations/regulations/ rpart3.html) for granting degrees of the University of California.
- i. Complete the requirements of the Doctor of Pharmacy degree within 4 years of the date he/she/they entered as a first-year student, excluding approved leaves of absence.
- j. Complete all required didactic and experiential Interprofessional coursework with a passing grade as established by policies of the Program for Interprofessional Practice and Education: PIPE (https:// interprofessional.ucsf.edu/)

URL: pharm.ucsf.edu/current/academics/requirements (https://pharm.ucsf.edu/current/academics/requirements/)

### **Core Courses**

Course	Title	Units
Year 1		
Summer		
PHARMIS 110	Foundations I	14.5
CL PHARM 170	Applied Patient Care Skills I	2.5
	Units	17
Fall Quarter		
PHARMIS 111	Cardiovascular Science & Therapeutics	11.5
CL PHARM 171	Applied Patient Care Skills II	1
CL PHARM 181	Introductory Pharmacy Practice Experience- Community A	2.5
	Units	15
Winter Quarter		
PHARMIS 112	<b>Respiratory Science &amp; Therapeutics</b>	9.5
CL PHARM 172	Applied Patient Care Skills III	1
CL PHARM 182	Introductory Pharmacy Practice Experience - Community B	2.5-5
INTERDEPT 123A	Inquiry Immersion 1	3
	Units	16-18.5
Spring Quarter		
PHARMIS 113	Renal Science and Therapeutics	6
PHARMIS 114	Gastrointestinal Science and Therapeutics	8
CL PHARM 173	Applied Patient Care Skills IV	1
CL PHARM 182	Introductory Pharmacy Practice Experience - Community B	2.5-5
CL PHARM 182		2.5-5 17.5-20
CL PHARM 182 Year 2	Community B	
	Community B	
Year 2	Community B	
Year 2 Summer	Community B Units	17.5-20
Year 2 Summer PHARMIS 115	Community B Units Foundations II	<b>17.5-20</b>
Year 2 Summer PHARMIS 115 PHARMIS 116	Community B Units Foundations II Endocrine Science and Therapeutics	<b>17.5-20</b> 3 9.5
Year 2 Summer PHARMIS 115 PHARMIS 116 CL PHARM 174	Community B Units Foundations II Endocrine Science and Therapeutics Applied Patient Care Skills V Introductory Pharmacy Practice Experience - Health	<b>17.5-20</b> 3 9.5 1
Year 2 Summer PHARMIS 115 PHARMIS 116 CL PHARM 174	Community B Units Foundations II Endocrine Science and Therapeutics Applied Patient Care Skills V Introductory Pharmacy Practice Experience - Health Systems	<b>17.5-20</b> 3 9.5 1 1.5-3.5

CL PHARM 175	Applied Patient Care Skills VI	1
CL PHARM 183	Introductory Pharmacy Practice Experience - Health	
	Systems	1.5 5.5
	Units	17-19
Winter Quarter		
PHARMIS 118	Oncology Science and Therapeutics	5.5
PHARMIS 119	Infectious Disease Science and Therapeutics	8
CL PHARM 176	Applied Patient Care Skills VII	1
CL PHARM 182	Introductory Pharmacy Practice Experience -	2.5-5
	Community B	2.0 0
	Units	17-19.5
Spring Quarter		
PHARMIS 120A	Discovery Groups Research Block	5
PHARMIS 120B	Intensive Discovery Research Project	12
CL PHARM 183	Introductory Pharmacy Practice Experience - Health	1.5-3.5
	Systems	
Select one of the following:		7
CL PHARM 192	Hospital Pharmacy Systems & Practice APPE	
CL PHARM 193	Community Pharmacy Systems & Practice APPE	
CL PHARM 194	Acute Patient Care APPE	
CL PHARM 195	Ambulatory Patient Care APPE	
CL PHARM 190	Non-Direct Patient Care APPE Elective	
CL PHARM 191	Direct Patient Care APPE Elective	
	Units	25.5-27.5
Year 3		20.0 21.0
Summer		
CL PHARM 192	Heapital Dharmony Systems & Practice ADDE	7
CL PHARM 192 CL PHARM 193	Hospital Pharmacy Systems & Practice APPE	
	Community Pharmacy Systems & Practice APPE	7
CL PHARM 194	Acute Patient Care APPE	
CL PHARM 195	Ambulatory Patient Care APPE	7
CL PHARM 190	Non-Direct Patient Care APPE Elective	7
CL PHARM 191	Direct Patient Care APPE Elective	7
PHARMIS 121	Discovery Project Final Analysis and Completion	2
	Units	44
Fall Quarter		
CL PHARM 192	Hospital Pharmacy Systems & Practice APPE	7
CL PHARM 193	Community Pharmacy Systems & Practice APPE	7
CL PHARM 194	Acute Patient Care APPE	7
CL PHARM 195	Ambulatory Patient Care APPE	7
CL PHARM 190	Non-Direct Patient Care APPE Elective	7
CL PHARM 191	Direct Patient Care APPE Elective	7
PHARMIS 121	Discovery Project Final Analysis and Completion	2
	Units	44
Winter Quarter		
CL PHARM 192	Hospital Pharmacy Systems & Practice APPE	7
CL PHARM 193	Community Pharmacy Systems & Practice APPE	7
CL PHARM 194	Acute Patient Care APPE	7
CL PHARM 195	Ambulatory Patient Care APPE	7
CL PHARM 190	Non-Direct Patient Care APPE Elective	7
CL PHARM 191	Direct Patient Care APPE Elective	7
PHARMIS 121	Discovery Project Final Analysis and Completion	2
	Units	44
Spring Quarter		-
CL PHARM 192	Hospital Pharmacy Systems & Practice APPE	7
CL PHARM 193	Community Pharmacy Systems & Practice APPE	7
CL PHARM 193	Acute Patient Care APPE	7
CL PHARM 194	Ambulatory Patient Care APPE	7
CL PHARM 195 CL PHARM 190	Non-Direct Patient Care APPE Elective	7
CL PHARM 190 CL PHARM 191	Direct Patient Care APPE Elective	7
	Direct Fatient Gale AFFE Elective	1

PHARMIS 121	Discovery Project Final Analysis and Completion	2
	Units	44
	Total Units	316-329.5