

PHARMACY PROGRAMS

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.

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/>.

Learner (Learner)

Develop, integrate, and apply knowledge from the foundational sciences (i.e. biomedical, 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.

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).

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.

Health and wellness (Promoter)

Design prevention, intervention, and educational strategies for individuals and communities to manage common disease and improve health and wellness.

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.

Problem Solving (Problem Solver)

Design, implement, and evaluate a viable solution to identified problems through exploration and prioritization of strategies.

Educator (Educator)

Educate all audiences by determining the most effective and enduring techniques and strategies to impart information, achieve learning objectives, and assess understanding.

Patient Advocacy (Advocate)

Assure that patients' best interests are represented.

Interprofessional collaboration (Collaborator)

Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.

Cultural sensitivity (Includer)

Recognize social determinants of health to diminish disparities and inequities in access to quality care.

Communication (Communicator)

Clearly communicate when interacting with an individual, group, or organization.

Self-awareness (Self-aware)

Examine and reflect on personal and professional knowledge, skills, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.

Leadership (Leader)

Demonstrate responsibility for creating and achieving personal and shared goals, regardless of position.

Innovation and Entrepreneurship (Innovator)

Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.

Professionalism (Professional)

Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

undefined

undefined

undefined

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.

Melanie Felmlee, Director of the Bachelor of Arts in Applied Sciences, Associate Professor of Pharmaceutical Sciences, 2015, BS, University of Guelph, ON, CA, 2001; MSPharm, University of Saskatchewan, SK, CA, 2005; PhD Pharmaceutical Sciences, University of Buffalo, NY, 2011.

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.

Carly Ranson, Director of Co-Curriculum, Associate Professor of Pharmacy Practice, 2017, Pharm.D., 2013, M.S. Pharmaceutical and Chemical Sciences, 2017, University of the Pacific.

Deepti Vyas, Director of Inter-Professional Education, Professor of Pharmacy Practice, 2012, PharmD, Purdue University, 2006.

Mamoun M. Alhamadsheh, Professor of Pharmaceutical Chemistry, Department of Pharmaceutical Sciences, 2011, B.S. Pharm, Jordan University of Science & Technology, Irbid, Jordan; 1999; PhD, University of Toledo, 2004.

Veronica Bandy, Regional Coordinator-Sacramento, Clinical Professor of Pharmacy Practice, 2002, BS, University of California, Riverside, 1995; MS, PharmD, University of the Pacific, 2000.

William K. Chan, Professor of Molecular Pharmacology, Department of Pharmaceutical Sciences, 1996, PharmD, 1986; PhD, University of California, San Francisco, 1991.

David Collum, Good Neighbor Pharmacy Entrepreneurial Pharmacy Practice Program Chair and Assistant Clinical Professor of Pharmacy Practice, 2013, BS Biology, University of Texas, 1977, MS Pharmacy, University of Florida, 2010.

Nancy DeGuire, Clinical Professor, Department of Pharmacy Practice, 2004, PharmD., University of the Pacific, 1989.

Jesika S. Faridi, Professor of Physiology Cancer Biology, Department of Pharmaceutical Sciences, 2004, BS, University of California, Davis, 1995, PhD, Loma Linda University, 2000.

Suzanne Galal, Professor of Pharmacy Practice, 2009, PharmD, Northeastern University, Bouve College of Health Sciences, Boston, MA, 2008.

Marisella Guerrero, Associate Clinical Professor of Pharmacy Practice, 2017, PharmD, 1998, University of the Pacific.

Xin Guo, Professor of Pharmaceutical Chemistry, Department of Pharmaceutical Sciences, 2003, BS, Shanghai Medical University, 1993; MS, Duquesne University, 1995; PhD, University of California, San Francisco, 2001.

Robert F. Halliwell, Professor of Physiology & Pharmacology, Department of Pharmaceutical Sciences, 2002, BS, University of Stirling, 1983; MS, University College London, 1985; PhD, University of Dundee, 1992.

Kimberly A. Hoffmann, Regional Coordinator, Bakersfield, CA, Clinical Professor of Pharmacy Practice, 2002, BCPP, PharmD, University of the Pacific, 1989.

S. Lena Kang-Birken, Regional Coordinator, Santa Barbara, CA, Professor of Pharmacy Practice, 1994, FCCP, BA, California State University, Northridge, 1987; PharmD, University of California, San Francisco, 1991.

Adam M. Kaye, Clinical Professor of Pharmacy Practice, 1999, PharmD, University of the Pacific, 1995.

Vista Khosraviani, Associate Clinical Professor of Pharmacy Practice, 2023, BS, University of California, Davis, PharmD, University of Charleston School of Pharmacy, 2017.

Myo K. Kim, Associate Professor of Pharmacy Practice, 2003, BS, Chung-Ahn University, Korea, 1994, PharmD, University of Minnesota, 1998.

Caroline Ko, Assistant Professor of Pharmacy Practice, 2022, BS, University of California, San Diego, 2005, PharmD, University of California, San Francisco, 2012.

Elaine Law, Clinical Professor, Regional Coordinator - San Jose, 2015, BS, University of California, Los Angeles, 2004 PharmD, University of California, San Francisco, 2008.

Audrey J. Lee, Regional Coordinator, San Francisco, Professor of Pharmacy Practice, 1994, BCPS, PharmD, University of California, San Francisco, 1992.

Xiaoling Li, Professor of Pharmaceutics, Department of Pharmaceutical Sciences, 1992, BS, 1982; MS, Shanghai First Medical College, P.R. China, 1985; PhD, University of Utah, 1991.

John C. Livesey, Associate Professor of Pharmacology, Department of Pharmaceutical Sciences, 1994, BS, Stanford University, 1977; PHD, University of Minnesota, 1982.

Sara Mahmoud, Assistant Clinical Professor of Pharmacy Practice, 2023, BS Pharmaceutical Sciences in Clinical Pharmacy, Ain Shams University, Egypt, Pharm.D., Skaggs School of Pharmacy, University of Colorado, 2018.

Yvonne Mai, Associate Professor, Regional Coordinator-Stockton, Pharmacy Practice, 2016, PharmD, University of the Pacific, 2013.

Jenana Maker, Professor of Pharmacy Practice, 2008, PharmD, University of Rhode Island, 2006.

Amber Miller, Assistant Clinical Professor, Pharmacy Practice, Regional Coordinator - San Fernando Valley, 2019, BS in Biology, California State University, Northridge, 2003.

Randall K. Miyahara, Clinical Professor, Pharmacy Practice, 2021, PharmD, University of California, San Francisco, 1985.

Yong S. Moon, Regional Coordinator, Long Beach, CA, Associate Professor of Pharmacy Practice, 1998, BA, BS, University of California, Irvine, 1992, PharmD, University of Southern California, 1996.

Nancy N. Nguyen, Regional Coordinator, Palo Alto, CA, Clinical Professor of Pharmacy Practice, 2004, BCPS, BS, University of California, Davis, 1997, PharmD, Western University of Health Sciences, 2002.

Linda L. Norton, Professor, Pharmacy Practice, 1993, PharmD, University of the Pacific, 1991,

Kate M. O'Dell, Professor of Pharmacy Practice, 2004, BCPS, PharmD, University of Michigan, 1999

Tony J. Park, Assistant Clinical Professor of Pharmacy Practice, 2014, PharmD, University of the Pacific, 1996.

Rajul Patel, Professor of Pharmacy Practice, 2005, PharmD, 2001, PhD, University of the Pacific, 2005.

Neel Prasad, Associate Clinical Professor, Pharmacy Practice, Regional Coordinator - Modesto/East Bay, 2016, PharmD, University of the Pacific, 1996.

Christina Qi, Assistant Clinical Professor, Pharmacy Practice, Regional Coordinator - Inland Empire, 2013, BA in Biochemistry and Psychology,

University of California, Berkeley, 2004 PharmD, University of Southern California, 2010.

Atefeh Rabiee, Associate Professor, Department of Pharmaceutical Sciences, 2020, PhD University of Southern Denmark, arabiee@pacific.edu, 209-946-7325, <https://pharmacy.pacific.edu/campus-directory/atefeh-rabiee>, C102B

Roshanak Rahimian, Professor of Physiology & Pharmacology, Department of Pharmaceutical Sciences, 2001, Pharm D, Tehran University of Medical Sciences, 1988; MS, University of Ottawa, 1995; PhD, University of British Columbia, 1998.

Marcus C. Ravnan, Professor of Pharmacy Practice, 2000, PharmD, University of the Pacific, 1994.

Susan L. Ravnan, Associate Professor of Pharmacy Practice, 1998-2007, 2023, PharmD, University of the Pacific, 1994.

Edward L. Rogan, Professor of Pharmacy Practice, 2013, BS Biology, University of Illinois, 1992, PharmD, University of Iowa, 1997.

Wade A. Russu, Associate Professor of Medicinal Chemistry, Department of Pharmaceutical Sciences, 2005, BS, California Polytechnic State University, San Luis Obispo, 1992; MA, University of California, Santa Barbara, 1995; PhD, University of California, Santa Barbara, 2000.

Marie Scott, Regional Coordinator, San Diego, Clinical Professor, Pharmacy Practice,, 2012, BS, University of California at San Diego, 1994; PharmD, University of California at San Francisco, 2002.

Raj Sevak, Associate Professor, Pharmacy Practice, 2019, PhD in Pharmacology, The University of Texas Health Science Center at San Antonio.

Sachin A. Shah, Regional Coordinator, Fairfield, CA, Professor of Pharmacy Practice, 2007, PharmD, Massachusetts College of Pharmacy and Health Sciences, 2005.

Nareeta Sharma, Assistant Clinical Professor, Pharmacy Practice Patient Care Clinics, Director of Diabetes Patient Care, 2021, MS, University of the Pacific, 2021, PharmD, University of the Pacific, 2018.

Jessica Song, Clinical Professor of Pharmacy Practice, 2022, PharmD, University of California School of Pharmacy, San Francisco, California, 1998.

Vijay K. Tammara, Director, MS Regulatory Sciences, Clinical Professor, Pharmaceutical Sciences, 2025, PhD, School of Pharmacy, Northeastern Louisiana University, Monroe, Louisiana, 1999.

David Thomas, Associate Professor of Physiology & Pharmacology, Department of Pharmaceutical Sciences, 2000, BS, 1985; MS, California State University, Sacramento, 1989; PhD, University of California, Davis, 1996.

Kristapor Thomassian, Regional Coordinator, Chico, CA, Assistant Clinical Professor of Pharmacy Practice, 2009, BS Biochemistry, University of California, Davis, 1991; PharmD, University of the Pacific, 1996.

Mark P. Walberg, Visiting Associate Professor, Pharmacy Practice, 2019, MA University of California, Los Angeles, 2003, PharmD, University of the Pacific, 2006, PhD, University of the Pacific, 2009.

James Wall, Assistant Clinical Professor, Adjunct Professor of Pharmacy Practice, 2018, BA, Applied Sciences, University of the Pacific, 2016, PharmD, University of the Pacific, 2016.

Sarah Wong, Assistant Clinical Professor, Pharmacy Practice, Diabetes Patient Care Clinics, 2021, PharmD, University of the Pacific, Stockton, CA, 2021.

Clifford A. Young, Regional Coordinator, Fresno, Associate Clinical Professor of Pharmacy Practice, 2009, RPh, CGP, BS Pharmacy, University of Washington, 1987; BS Nutrition Science, University of California, Davis, 1984.

Ahmed Abdelhalim, Adjunct Professor, 2017, B.S., Cairo University, 2002; PharmD, University of Florida, 2016.

Sam Abid III, Adjunct Professor, 2018, PharmD, University of the Pacific, 2016.

Lisa J. Adams, Adjunct Professor, 1998, BS, California State University, Fresno, 1984; BS Pharm, University of Wyoming, 1988; PharmD, Purdue University, 1989.

Abby Adesanya, Adjunct Professor, 2014, BS, Kent State University, 1987; PharmD, University of Southern Nevada, 2004.

Mehak Aggarwal, Adjunct Professor, 2020, BS Biomedical Sciences, University of South Florida, 2015, PharmD Pharmacy, University of North Carolina, 2019.

Raquel Aguirre, Adjunct Professor, 2011, PharmD, USC School of Pharmacy, 2006.

Hina Ahmed, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of Illinois, 2005.

Janet Y. Aiso, Adjunct Professor, 2011, PharmD, University of Southern California, 1993.

Sally Albayati, Adjunct Professor, 2014, BS, San Diego State University, 2006; MPharm, University College London, School of Pharmacy, 2011.

Folashade Alabi, Adjunct Professor, 2021, Masters Pharmacy, University of Sunderland, 2008.

Ben M. Alger, Adjunct Professor, 2016, PharmD, Shenandoah University, 2012

Kahlid Hasan Ali, Adjunct Professor, 2013, BA, Occidental College, California, Los Angeles, 2004; PharmD, Massachusetts College of Pharmacy and Health, Wisconsin, 2008.

Oladoyin Alimi, Adjunct Professor, 2015, Pharm.D., Pharmacy, Drake University, 2010.

Brock Allison, Adjunct Professor, 2020, BS Pharmacy, Southwestern Oklahoma State University, 1999.

Cecily Allmon, Adjunct Professor, 2007, BS, San Jose State University, 1994; PharmD, University of the Pacific, 1998.

Lynn N. Almodovar, Adjunct Professor, 2016, MPH, Boston University, 2004; PharmD, University of the Pacific, 2008

Judith Alsop, Adjunct Professor, 2003, PharmD, University of California, San Francisco 1974.

Brian Amador, Adjunct Professor, 2007, PharmD, Western University, Pomona, 2003.

Eleonora "Lina" Amscheslavsky, Adjunct Professor, 2009, PharmD, University of the Pacific 2001.

Don Anderson, Adjunct Professor, 2019, BS Business Administration, Pacific Union College, 1998, PharmD Pharmacy, University of the Pacific, 2002.

Ethan Anderson, Adjunct Professor, 2018, PharmD, University of the Pacific, 2007.

Grace P. Anderson, Adjunct Professor, 2015, B.S., Biology, University of the Pacific, 2006; Pharm.D., Pharmacy, University of the Pacific, 2009.

Leigh Charles Anderson, Adjunct Professor, 2005, DDS, University of Minnesota, 1977; PhD, University of Minnesota, Oral Biology, 1979.

Staci Anderson, Adjunct Professor, 2007, PharmD, University of the Pacific, 2002.

Stephanie Anderson, Adjunct Professor, 2014, PharmD, University of the Pacific, 2001.

Travis Richmond Anderson, Adjunct Professor, 2017, B.S., Biology, University of the Pacific, 2001, PharmD, University of the Pacific, 2005.

Brittany Andruszko, Adjunct Professor, 2018, PharmD, University at Buffalo School of and Pharmaceutical Sciences, 2014.

Chelsey C. Ankrah, Adjunct Professor, 2017, B.S., Biology, Arizona State University, 2007, PharmD, University of the Pacific, 2013.

Nomie Apostol, Adjunct Professor, 2003, PharmD, University of Santo Tomas, 1983.

Renzio Apostol, Adjunct Professor, 2023, BS Pharmaceutical Sciences, University of California, Irvine, 2016, PharmD Pharmacy, California Health Sciences University, 2020.

Mahmoud Araim, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 2017, BS Interdisciplinary Health and Rehab Services, California State University of Fresno, 2012.

Wafaa Araim, Adjunct Professor, 2018, BA, Chemistry, California State University, Fresno, 2013, PharmD, University of the Pacific, 2016.

Mary-Joy Q Arcellana, Adjunct Professor, 2009, PharmD, University California, San Francisco, School of Pharmacy.

Jason Nobuyoshi Arimura, Adjunct Professor, 2016, B.S., University of California, San Diego, 2001; PharmD, University of California, San Francisco, 2007

Jered M. Arquette, Adjunct Professor, 2010, PharmD, University of the Pacific, 2008.

Michael Ascari, Adjunct Professor, 2001, BS, University of Rhode Island, 1991; PharmD, University of Rhode Island, 1999.

Christina Ashjian, Adjunct Professor, 2016, B.S., University of the Pacific, 2007; PharmD, University of the Pacific, 2010

Veda Asmatey, Adjunct Professor, 2010, PharmD, University of the Pacific 2000.

Mark Awad, Adjunct Professor, 2021, BA Applied Sciences, University of the Pacific, 2018, PharmD Pharmacy, University of the Pacific, 2018.

Broniell Azof, Adjunct Professor, BS, Biochemistry and Cell Biology, University of California, San Diego, 2017, PharmD, Pharmacy, University of the Pacific, 2020.

Sharon Bae, Adjunct Professor, 2022, BAAS, University of the Pacific, 2017, PharmD Pharmacy, University of the Pacific, 2020.

Darlene Nami-Torigoe Bagshaw, Adjunct Professor, 2023, BA Biology, University of the Pacific, 1983, BS Pharmacy, University of the Pacific, 1988.

Renu Bajwa, Adjunct Professor, 2019, BS Biochemistry, University of California, Santa Barbara, 2005, PharmD Pharmacy, Western University of Health Sciences, 2013.

Vincent G. Banh, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2014.

Rajat Deep Bansil, Adjunct Professor, 2016, BA, Boston University, 2007; PharmD, University of California, San Francisco, 2013

Huei-Li Lily Barker, Adjunct Professor, 2015, B.S., Mathematics, University of California, Los Angeles, 1996; Pharm.D., Pharmacy, University of Southern California, 2001.

John Barr, Adjunct Professor, 1999, BS, University of Glasgow, 1981; PhD, 1985.

Tony G. Bastian, Adjunct Professor, 2009, PharmD, University of California at San Francisco, 1982.

Robert L. Batman, Adjunct Professor, 1993, PharmD, University of Southern California, 1984.

Ross Paul Bauman, Adjunct Professor, 2013, Pre-Pharmacy, University of the Pacific, 2006; PharmD, University of the Pacific, 2009.

Jennigrace Bautista, Adjunct Professor, 2006, PharmD, University of the Pacific, 2004.

Ali Bazmi, Adjunct Professor, 2005, AS, Warnborough College, Oxford, England, 1983; BS Pharm, Drake University, 1986; PharmD, Creighton University, 2003.

Jessica Valdes Beck, Adjunct Professor, 2018, B.S., Exercise Biology, University of California, Davis, 2006, PharmD, Western University of Health Sciences, 2011.

Sandra Beck-Atwater, Adjunct Professor, 2009, RPh, University of the Pacific, 1983.

Abdel Bendamkila, Adjunct Professor, 2022, PharmD Pharmacy, University of Vermont, 1996.

Jill Hines Bennett, Adjunct Professor, 2013, PharmD, University of Southern California, 1987.

Hanh Tran Bergere, Adjunct Professor, 2015, Pharm.D., Pharmacy, Loma Linda University, School of Pharmacy, 2009.

Steve Berk, Adjunct Professor, 2000, BS Pharm, Idaho State University, 1980.

Bret Berner, Adjunct Professor, 1995, BS, University of Rochester, 1973, PhD, University of California, Los Angeles.

Erin Bess, Adjunct Professor, 2019, BA Kinesiology/Sports Med, Rice University, 2003, PharmD Pharmacy, University of Southern California, 2011.

Dixit Bhakta, Adjunct Professor, 2018, B.S., Biology, University of California, Riverside, 2004, PharmD, University of California, San Diego Skaggs School of Pharmacy, 2009.

Jagdeep Bhullar, Adjunct Professor, 2021, BS Biology, University of California, Riverside, 2015, PharmD Pharmacy, University of the Pacific, 2019.

Sanjit Kaur Bhullar, Adjunct Professor, 2016, PharmD, Northeastern University, 2008.

Ross Biondo, Adjunct Professor, 2000, BS Pharm, Wayne State University, 1979.

Amarjot Biring, Adjunct Professor, 2021, MPH emphasis in Health Administration, California State University, Fresno, 2008, PharmD Pharmacy, California Northstate University College of Pharmacy, 2014.

Kondamraj Birudaraj, Adjunct Professor, 2005, B Pharm, Kakatiya University, 1991, PhD, University of the Pacific, 2001.

Jessica Blummer, Adjunct Professor, BS, Comprehensive Science, Villanova University, 2016, PharmD, Pharmacy, Thomas Jefferson University, 2020

Ramesh Rao Boinpally , Adjunct Professor, 2009, PhD.

Burke Bonilla, Adjunct Professor, 2007, BS, California Polytechnic University, 1995; MD, University of California, San Francisco, 1996.

Sonia V. Booth, Adjunct Professor, 2015, B.S., Biological Sciences, California State University, Stanislaus, 2002; Pharm.D., Pharmacy, University of the Pacific, 2008.

Rosemary A. Boss, Adjunct Professor, 2000, BS, University of Houston, 1981.

Meghann Boswell, Adjunct Professor, 2012 , PharmD, University of the Pacific, 2008.

Sharya Vaughan Bourdet, Adjunct Professor, 2006, BS, Duke University, 1996; PharmD, University of California, San Francisco, 2000.

Catherine Anne Bousman, Adjunct Professor, 2013, BS Pharmacy, University of Washington, 1986; PharmD, University of Florida, 2001.

Margaret E. Boyden, Adjunct Professor, 2006, PharmD, Western University, 2001.

Denise Kourtney Gin Bragg, Adjunct Professor, 2012, BS, University of California, San Diego, 2002; PharmD, University of California, San Francisco, 2007.

Jennifer Maxine Branch, Adjunct Professor, 2013, BS, Sonoma State University, 1988; PharmD, University of California, San Francisco, 1992.

Cornelis Van Breemen, Adjunct Professor, 2005, DVM, University of Toronto, Ontario Veterinary College, 1960; MS, University of Alberta , 1962, PhD, University of Alberta, 1965.

J. Grant Breshears, Adjunct Professor, 1997, PharmD, University of the Pacific, 1984; MBA, University of Phoenix, 1990.

Jeanne Brady, Adjunct Professor, 2020, PharmD Pharmacy, University of the Pacific, 1993.

Jessica Bugay, Adjunct Professor, 2010, PharmD, University of the Pacific.

Lindsey Bui, Adjunct Professor, 2007, BS, University of California, Riverside, 2000; PharmD, University of the Pacific, 2006.

Vinh Bui, Adjunct Professor, 2019, BS Biochemistry, University of California, Riverside, 2010, PharmD Pharmacy, Loma Linda University, School of Pharmacy, 2014.

David Burger, Adjunct Professor, 2006, AA, Bakersfield Junior College, 1993; BS, California State University, Bakersfield, 1995; PharmD, University of Southern California, 1999.

Debra Ann Burns, Adjunct Faculty, 2017, B.S., Chemistry, University of California, Irvine, 1994, PharmD, Pharmacy, University of the Pacific, 1999.

Niyati Butala, Adjunct Professor, 2019, PharmD Pharmacy, MCPHS University, 2017.

Kerri Butler, Adjunct Professor, 2015, Adjunct Professor, B.S., Biotechnology, University of California, Davis, 2001; Pharm.D., Pharmacy, University of the Pacific, 2004.

Faith Butterworth, Adjunct Professor, 2020, PharmD Pharmacy, Touro University, 2016.

Christie Caillier, Adjunct Professor, 2021, PharmD Pharmacy, Texas A&M University, 2015.

Stacey Campbell, Adjunct Professor, 2021, BS Chemistry, Xavier University New, 1999, Masters Public Health, Tulane University School of Public Health and Tropical Medicine, 2000, PharmD Pharmacy, Mercer University College of Pharmacy, 2005.

Wayne N. Campbell, Adjunct Professor, 2007, PharmD, University of the Pacific, 1981.

Vivian N. Cao, Adjunct Professor, 2016, PharmD, Idaho State university, 2002

Neil Cardosa, Adjunct Professor, 1991, BS, University of the Pacific, 1979; PharmD, 1981.

Terry Carlson, Adjunct Professor, 2007, BS, University of California, Davis, 1980; PharmD, University of the Pacific, 1983.

Sian Carr-Lopez, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 1985.

Kristine Carrasco, Adjunct Professor, 2019, BS Pharmacological Chemistry, University of California San Diego, 2012, PharmD Pharmacy, Midwestern University Glendale, AZ, 2016.

Steve Carter, Adjunct Professor, 1996, BS, University of California, Irvine, 1989; PharmD, University of California, San Francisco, 1993.

Candace Ying Chan, Adjunct Professor, 2013, PharmD, University of the Pacific, 2013.

Henry M. Chan, Adjunct Professor, 2009, PharmD, Midwestern University, 2002.

Jasmine K L Chan, Adjunct Professor, 2023, BS Biological Sciences, University of the Pacific, 2006, PharmD Pharmacy, University of the Pacific, 2009.

Kaity Ming Chan, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2002.

Sandra G. Chan, Adjunct Professor, 2009, PharmD, San Francisco State University and Western University of Health.

Y. Christine Chan, Adjunct Professor, 2016, B.S., University of Texas at Austin, 1991.

Che-Min Chang, Adjunct Professor, 2018, PharmD, University of the Pacific, 2013.

Elizabeth S. Chang, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2012.

John F. Chang, Adjunct Professor, 2013, BS, University of California, Los Angeles, 1996; PharmD, Loma Linda, 2008.

Lawrence Chang, Adjunct Professor, 2019, BS Biological Sciences, University of the Pacific, 2012, PharmD Pharmacy, University of the Pacific, 2016.

Lisa Chang, Adjunct Professor, 2009, PharmD, University of the Pacific, 1990.

Marian M. Chang, Adjunct Professor, 2008, PharmD, University of California, San Francisco, 2000.

Michelle M. Chang, Adjunct Professor, 2006, BS, California State University, Fresno, 2000; PharmD, University of California, San Francisco, 2005.

Ruby Y. Chang, Adjunct Professor, 2002, BS, University of Southern California, 1994; PharmD University of California, San Francisco, 1999.

Stephen Chang, Adjunct Professor, 2014, PharmD, University of the Sciences of Philadelphia, 2008; MPH, University of Washington, 2015.

Raymond Chao, Adjunct Professor, 2020, BS Biochemistry and Molecular Biology, University of California, Davis, 2009, PharmD Pharmacy, University of Southern California, 2013.

Tihua Chao, Adjunct Professor, 2014, BS, University of California, San Diego, 2003; Masters of Engineering, University of California, San Diego, 2003; PharmD, University of California, San Diego, 2012.

William John Chappell, Adjunct Professor, 2015, B.S., General Biology, University of California, San Diego, 2003; Pharm.D., Pharmacy, University of the Pacific, 2011.

Melissa Ann Chase, Adjunct Professor, 2012, Pharm D, University of the Pacific, 1999.

Christine Chau, Adjunct Professor, 2023, BS Science and Microbiology, California State University, Sacramento, 1995, PharmD Pharmacy, University of the Pacific, 2000.

Trinh My Chau, Adjunct Professor, 2012, BS, California State University, Long Beach, 1996; PharmD, Western University of Health Sciences, 2008.

Jasjinder S. Cheema, Adjunct Professor, 2013, PharmD, University of the Pacific, 2009.

Erica Tam Chen, Adjunct Professor, 2012, BA, University of California, Berkeley, 2004; PharmD, University of the Pacific, 2007.

Jennifer S. Chen, Adjunct Professor, 2007, BA, University of California, Berkeley, 2001; PharmD, University of California, San Francisco, 2005.

Timothy S. Chen, Adjunct Professor, 2008, PharmD, Western University 2004.

Senping Cheng, Adjunct Professor, 2014, Ph.D, University of Kentucky, 2010, M.S., Nanjing Medical University, CHINA, 2006; M.S., Nanjing Medical University, CHINA, 2003.

Rou-Yee Chenhsu, Adjunct Professor, 2012, MS, University of Iowa, 2001; PharmD, Midwestern University, 2007.

Daniel Cheung, Adjunct Professor, 2014, BS, Queen's University, 1998; PharmD, University of Michigan, 2002.

Joanna Cheung, Adjunct Professor, 2017, B.S., McGill University, 2004; M.S., McGill University, 2007; PharmD, Touro University, 2014.

Matt Onman Cheung, Adjunct Professor, 2012, BS Pharmacy, University of Wisconsin, Madison, 1977; Ph.D, University of Wisconsin, Madison, 1981.

Jaime Chew, Adjunct Professor, 2009, PharmD, University of the Pacific, 2005.

Ka Wan Chiang, Adjunct Professor, 2014, BS, Creighton University, 2009; PharmD, Creighton University, 2005.

Sandra Chiang, Adjunct Professor, 2019, PharmD Pharmacy, University of Washington - Seattle, 2010.

Phillip Chiao, Adjunct Professor, 2003, PharmD, University of the Pacific, 1996.

Teresa S. Chiao, Adjunct Professor, 2001, PharmD, University of California San Francisco, 1997.

Karen Y. Chin, Adjunct Professor, 2000, BS, University of California, Davis, 1993; PharmD, University of the Pacific, 1996.

Miranda Chin, Adjunct Professor, 2007, PharmD, University of California, San Francisco, 1988.

Thuy#Trang Ching, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2007.

Chiao An Chiu, Adjunct Professor, 2020, BS Pharmacological Chemistry, University of California, San Diego, 2013, PharmD Pharmacy, University of California, San Diego, 2017.

Christian Cho, Adjunct Professor, 2019, BS Pharmaceutical Health Care Studies, University of the Sciences in Philadelphia, 2014, PharmD Pharmacy, Philadelphia College of Pharmacy, 2016.

Nicole Cho, Adjunct Professor, 2016, B.S., University of California, Berkeley, 2006; PharmD, University of Southern California, 2011

Ester Y. Choi, Adjunct Professor, 2015, B.S., Molecular & Cell Biology, University of California, Berkeley, 2007; Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Mia Choi, Adjunct Professor, 2019, BA Biology, University of Southern California, 2013, PharmD Pharmacy, Loma Linda University, 2017.

Mary Anne S. Choi, Adjunct Professor, MBA, Eberhardt School of Business, University of the Pacific, 2018, PharmD, Pharmacy, University of the Pacific, 2018.

Roy Choi, Adjunct Professor, 2022, BAAS , University of the Pacific, 2020, PharmD Pharmacy, University of the Pacific, 2020.

Christopher E. Chow, Adjunct Professor, 2017, BA, Psychology, University of California, Santa Barbara , 2005, PharmD, University of the Pacific, 2012.

Irwin D. Chow Jr., Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 1970; M.S., Criminology, California State University, Fresno, 1979.

Jennifer Chow, Adjunct Professor, 2022, BA Cognitive Science, University of California, Berkeley, 2005, PharmD Pharmacy, University of Washington, School of Pharmacy, 2010.

Gary Choy, Adjunct Professor, B.S., Microbiology, University of California, Berkeley, 1989; Pharm.D., Pharmacy, University of the Pacific, 1993., 2015

Melissa L. D. Christopher, Adjunct Professor, 2008, PharmD, Duquesne University of Pharmacy.

Daniel Chu, Adjunct Professor, 2012, BA, University of California, Berkeley, 2004; PharmD, University of California, San Francisco, 2008.

Stephanie Chu, Adjunct Professor, 2018, RPh, PharmD, University of the Pacific, 2013

Joshua R. Chua, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Rebecca M. Chumbley, Adjunct Professor, 2009, PharmD, University of the Pacific, 2005.

Patricia J. Chun, Adjunct Professor, 2002, BS, University of California, Los Angeles, 1995; PharmD, University of the Pacific, 1999.

Robert Chun, Adjunct Professor, 2020, BS Pharmacy, Creighton University, 1987, PharmD Pharmacy, University of Southern California, 1989.

Jasmine Chung, Adjunct Professor, 2019, BA Biological Sciences, University of Southern California, 2008, PharmD Pharmacy, University of Southern California, 2012.

Suna Y Chung, Adjunct Professor, 2009, PharmD, University of the Pacific, 2001.

Megan Chynoweth, Adjunct Professor, 2012, BA, Whittier College, 2006; PharmD, University of California, San Diego, 2010.

Ashley B. Clark, Adjunct Professor, 2012, BS, California State University, Fresno, 2006; Pharm D, University of Southern California, 2010.

Courtney S. Clark, Adjunct Professor, 2009, PharmD, Ferris State University, Big Rapids, MI, 2006.

Erik Clausen, Adjunct Professor, 2009, PharmD, University of the Pacific, 2008.

Jeffrey L. Cleland, Adjunct Professor, 2002, University of California, Davis, 1982, PhD, Massachusetts Institute of Technology, 1991.

Nathan Henry Close, Adjunct Professor, 2013, PharmD, Duquesne University, Mylan School of Pharmacy, 2009.

Allan Cohen, Adjunct Professor, 2018, MBA, Business Administration, Loyola Marymount University, 1990, PharmD, University of the Pacific, 1971.

Michelle Compton, Adjunct Professor, 2012, PharmD, University of the Pacific, 1994.

Melissa Ann Connelly, Adjunct Professor, 2016, PharmD, Purdue University, 2012

Michael Conner, Adjunct Professor, 2016, PharmD, University of the Pacific, 2012; MBA, Fresno Pacific University, 2014

Ryan Conrad, Adjunct Professor, 2014, BS, California State University, Fresno, 2009; PharmD, University of the Pacific, 2012.

Felicia Coe, Adjunct Professor, 2010, PharmD., University of the Pacific, 1988.

Stephanie J. Cooper, Adjunct Professor, 2007, AS, Cottey College, 2000; PharmD, Washington State College of Pharmacy, 2004.

Marie A. Cottman, Adjunct Professor, 2000, BS, University of California, Santa Barbara, 1993; PharmD, University of California, San Francisco, 1997.

Bailey Crandall, Adjunct Professor, 2013, BS, University of California, Santa Barbara, 2007; PharmD, University of California, Santa Barbara, 2011.

John R. Crison, Adjunct Professor, 2004, MS, 1977, MS, 1990, PhD, University of Michigan, 1993.

Yvette Crockell, Adjunct Professor, 1999, B.S. Pharmacy, University of Minnesota, 1988; MHA, University of Southern California, 1992.

Anna De La Cruz, Adjunct Professor, 2014, PharmD, University of the Pacific, 2003.

Herbert Cruz, Adjunct Professor, 2022, BS Biology, University of San Francisco, 1980, MD College of Human Medicine, Michigan State University, 1985.

Mallory Cruz, Adjunct Professor, 2014, BA, California State University, Fresno, 2007; PharmD, University of California, San Diego, 2011.

Joel Cuaresma, Adjunct Professor, 2014, AS, Community College of the Air Force, 1990; AA, Mount San Antonio College, 1992; PharmD, University of California, San Francisco, 1997.

Marisella Cuevas, Adjunct Professor, 2008, PharmD, University of Pacific, 1998.

Zee Currie, Adjunct Professor, 2003, PharmD, University of Southern California, 1980.

Brian J. Dahl, Adjunct Professor, 1988, AA, Orange Coast College, 1981; PharmD, University of California, San Francisco, 1987.

Teresa Christine Dai-Zovi, Adjunct Professor, 2016, B.S., University of California, Davis, 2004; PharmD, University of the Pacific, 2009

Matthew Todd Daly, Adjunct Professor, 2015, B.S., Biology, University of California, Riverside, 2010; Pharm.D., Pharmacy, Loma Linda University School of Pharmacy, 2014.

LanAnh p. Dam, Adjunct Professor, 2015, BA, Biology, California State University, Sacramento, 1999; Pharm.D., Pharmacy, Samford University, 2004.

Richard Damato, Adjunct Professor, 2003, BS University of California, Riverside, 1973; PharmD, University of California, San Francisco, 1978.

Christina Juliet Dang, Adjunct Professor, 2013, BS, University of California, Irvine, 2007; PharmD, University of Maryland, Baltimore, 2011.

Lawrence Howard Dang, Adjunct Professor, 2016, PharmD, University of the Pacific, 2011

Tim Dang, Adjunct Professor, 2022, BS Biochemistry, University of California, Los Angeles, 2016, PharmD Pharmacy, University of Southern California, 2022.

Jonathan L. Dao, Adjunct Professor , 2010 , PharmD, University of California, San Francisco, 2007.

Raymond Q. Dao, Adjunct Professor, 2005, PharmD, University of California, San Francisco, 1993.

Donna C. Dare, Adjunct Professor, 1995, AA, City College of San Francisco, 1979; PharmD, University of California, San Francisco, 1984.

Elizabeth David, Adjunct Professor, 2014, BS Pharmacy, University of Santo Thomas, Manila, Philippines, 1975.

Michael DeBusk, Adjunct Professor , 2010 , PharmD, University of the Pacific, 1986.

Bethany DeDonato, Adjunct Professor, 2018, PharmD, University of the Pacific, 2009.

Sherille DeGuia, Adjunct Professor, 2020, PharmD Pharmacy, University of Illinois at Chicago, 2008.

Maria DeRisi, Adjunct Professor, 2001, BS, University of California, Davis, 1994, PharmD, University of California, San Francisco, 1998.

Mabel Dea, Adjunct Professor, 2009, PharmD, University of Florida, FL.

Tiffany Dea, Adjunct Professor, 2009, PharmD, University of Florida, FL.

Robert L. Deamer, Adjunct Professor, 2000, BS, California State University, Los Angeles, 1977; PharmD, University of California, San Francisco, 1982.

Kathleen Delikowski, Adjunct Professor, 2012, BS, Mississippi State University, 1993; PharmD, University of the Pacific, 2009.

Phillip J. Dell, Adjunct Professor, 2008, PharmD, University of Southern California, 1983.

Tina Denetclaw, Adjunct Professor, 2009, Pharm.D., University of San Francisco, CA.

Marybeth Derbyshire, Adjunct Professor, 2014, BS, University of Maryland, College Park, 2008; PharmD, University of Maryland, Baltimore, 2012; MBA, University of Maryland, 2013.

Andrea Kathleen Derlet, Adjunct Professor, 2016, BA, Occidental College, 2007; PharmD, University of New Mexico College of Pharmacy, 2013

Krishna Devarakonda, Adjunct Professor, 2008, MPharm, Andra University, Visakhapatnam, India, 1978; PhD, Kakatiya University, Warangal, India, 1984.

Matt Devlin, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 2012.

Sarika Dewaika, Adjunct Professor, 2019, BS Pharmacy, The Ohio State University, 2001, PharmD Pharmacy, The Ohio State University, 2007.

Manpreet Dhillon, Adjunct Professor, 2015, B.S., Biology, Loyola Marymount University, 2004; Pharm.D., Pharmacy, University of the Pacific, 2007.

Li Di, Adjunct Professor, 2014, B.Sc., Zhongshan University, Canton, PRC, 1984; M.Sc., Zhongshan University, Canton, PRC, 1987; Ph.D, Brandies University, Waltham, Massachusetts, 1991; Postdoctoral, Biophysics, Boston University of Medicine, Boston, 1993.

Cherie Dillon, Adjunct Professor, 1994, PharmD, University of the Pacific, 1993.

Michael Dimont, Adjunct Professor, 2017, PharmD, University of the Pacific, 2012.

Steven M. Dinh, Adjunct Professor, 2014, Sc.D., Massachusetts Institute of Technology, M.S., Cornell University.

Tam Doan, Adjunct Professor, 2013, PharmD, University of the Pacific, 1999.

Charles Dominguez, Adjunct Professor, 2001, PharmD, University of the Pacific, 2001.

Marcus Jerome Dong, Adjunct Professor, 2016, PharmD, Western University of Sciences, College of Pharmacy, 2012

William Frederick Donovan, Adjunct Professor, 2016, PharmD, Campbell University, 2006.

Le Du, Adjunct Professor, 2017, .S., Biology, University of California, Davis, 2006, PharmD, University of Hawaii, Hilo, 2015.

Nikki Du, Adjunct Professor, 2009, University of the Pacific, CA, 2005.

Matthew Dunn, Adjunct Professor, 2020, BS Biochemistry, University of California, Santa Barbara, 2007, PharmD Pharmacy, University of the Pacific, 2011.

Michael B. Dunn, Adjunct Professor, 2008, PharmD, Western University of Health Sciences, 2006.

Freda Duong, Adjunct Professor, 2016, B.S., University of Illinois Urbana-Champaign, 2005; PharmD, Midwestern University, 2010

Lily Duong, Adjunct Professor, 2016, B.S., University of the Pacific, 2009; PharmD, University of the Pacific, 2012

Tanya Duong, Adjunct Professor, 1996, BS, San Jose State University, 1989; PharmD, University of the Pacific, 1994.

Tina LA D'Ulisse, Adjunct Professor, 2008, PharmD, University of Southern California, 2000.

Alan Duvall, Adjunct Professor, 2022, AS Science, J Sargaent Reynolds Community College, 2012, PharmD Pharmacy, Shenandoah University, 2018.

Candace A. Eacker, Adjunct Professor, 2001, PharmD, University of the Pacific, 1994.

Melissa K. Egan, Adjunct Professor, 2001, PharmD, University of Southern California, 1998.

Derrick Egi, Adjunct Professor, 2009, PharmD, University of the Pacific, CA, 2001.

Brent R. Ekins, Adjunct Professor, 2017, B.S., Pharmacy, University of Utah, 1974, PharmD, University of Utah School of Pharmacy, 1978.

Tarek El-Ansary , Adjunct Professor, 2021, Bachelors Pre-Pharmacy , Cal State University of Bakersfield , 1995, PharmD Pharmacy , University of the Pacific , 1998.

Ahmed Eldahmy, Adjunct Professor, 2022, BS PharmD, Ain Shams University, 2004.

Elizabeth Elledge, Adjunct Professor, 2006, BA, University of California, Davis, 1992; PharmD, University of the Pacific, 1996.

Jennifer L. Ellis, Adjunct Professor, 2012, PharmD, University of California, San Francisco, 2002.

Stephenie Ellis, Adjunct Professor, 2013, BS, California State University, Bakersfield, CA, 2003; PharmD, University of the Pacific, 2009.

Jason Ellison, Adjunct Professor, 2009, PharmD, UCSF School of Pharmacy, 2007.

Nkeonye Emuh, Adjunct Professor, 2015, B.S., Biology, University of San Francisco, 2004; Pharm.D., Pharmacy, Loma Linda University School of Pharmacy, 2008.

Marianne Encarnacion, Adjunct Professor, 2022, BS Pharmacological Chemistry, University of California, San Diego, 2014, PharmD Pharmacy, University of the Pacific, 2018.

Rene A. Endow-Eyer, Adjunct Professor, 1998, BEd, University of Hawaii, 1990; PharmD, University of Southern California, 1995.

Anita Y. Enomoto, Adjunct Professor, 1995, BS, University of Southern California, 1981; PharmD, 1985.

Asher Eric Esagoff, Adjunct Professor, 2012, BS, University of California, Los Angeles, 1975; PharmD, University of the Pacific, 1978.

Melissa Eseltine-Baas, Adjunct Professor, 2018, B.S., Biochemistry, California State University, Northridge, 2009, PharmD, University of Southern California, 2013.

April Anne Espinueva, Adjunct Professor, 2016, B.S., University of San Francisco, 2005; PharmD, University of California, San Francisco, 2010

Ken Eto, Adjunct Professor, 1998, PharmD, University of Southern California, 1983.

Ene Ette, Adjunct Professor, 2007, BSPHarm, Northeastern University, Boston, 1983; PhD, University of Glasgow, U.K., 1991.

Joanne Evans, Adjunct Professor, 2023, BS Biology, University of California, Irvine, 1994, PharmD Pharmacy, University of Southern California, 1998.

Ronald P. Evans, Adjunct Professor, 2012, BS, State University of New York, 1969; PharmD, University of Kentucky College of Pharmacy, 1974.

Scott Evans, Adjunct Professor, BS, Kinesiology, California State University, Fresno, 2005, PharmD, Pharmacy, University of the Pacific, 2010.

Gary Everson, Adjunct Professor, 2007, PharmD, University of Southern California, 1981.

Anthony Farrar, Adjunct Professor, 2012, BS, California Polytechnic University, San Luis Obispo, 1992; PharmD, University of California, San Francisco, 2000.

Michael A. Federico, Adjunct Professor, 2010, PharmD, University of the Pacific, 2002.

Robert Fields, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 1984.

Gianna Rose Firpo, Adjunct Professor, 2016, B.S., San Francisco State University, 2010; PharmD, Pacific University Oregon, 2014

Eric P. Fleischbein, Adjunct Professor, 2012, PharmD, University of the Pacific, 2008.

Paul Fleming, Adjunct Professor, 2009, PharmD, University of the Pacific, CA, 1993.

Olga S. Flores, Adjunct Professor, 2015, B.S., Biology, University of South Florida, 1989; Pharm.D., Pharmacy, University of the Pacific, 1992.

Audrey Fong, Adjunct Professor, 2019, BS Genetics, University of California, Davis, 1996, PharmD Pharmacy, University of the Pacific, 2002.

Nancy T. Fong, Adjunct Professor, 1992, BA, University of California, Berkeley, 1982; PharmD, University of California, San Francisco, 1986.

Daniel Gerard Ford, Adjunct Professor, 2016, B.S., University of California, San Diego, 2002; PharmD, University of California, San Diego, 2006

Matthew Ford, Adjunct Professor, 2022, BS Chemistry, California State University Fresno, 2010, PharmD Pharmacy, Pacific University Oregon, 2013.

Jessie Fox, Adjunct Professor, 2023, AS, Elizabethtown Community and Technical College, 2018, PharmD Pharmacy, Nova Southeastern University, 2022.

Christopher J. Freed, Adjunct Professor, 2001, BS, University of Rhode Island, 1978; PharmD, Idaho State University, 1994.

Lynn E. Friday, Adjunct Professor, 2000, BS, Purdue University, 1980.

Ashley Ann K. Fuchigami, Adjunct Professor, 2015, B.S., Pharmacy, Creighton University, 2012; Pharm.D., Pharmacy, Creighton University, 2012.

Richard Fung, Adjunct Professor, 2022, BS Health Promotion & Disease Prevention Studies, University of Southern California, 2012, PharmD Pharmacy, University of Southern California, 2017, MBA Healthcare Management, Colorado Technical University, 2021.

Ramakrishna Raju Gadiragu, Adjunct Professor, 2007, MPharm, Jadavpur University, India, 1990, PhD, University of Iowa, 1997.

Oscar Gallegos, Adjunct Professor, 2021, BS Biological Sciences, University of California, Santa Barbara, 2005, PharmD Pharmacy, University of Southern California, 2012.

Vishal Dilip Gandhi, Adjunct Professor, 2013, BS, University of the Pacific, 2006; PharmD, University of the Pacific, 2009.

Pin Gao, Adjunct Professor, 2006, BS, Nanjing Normal University, China, 1982; PhD, Purdue University, 1988.

Elizabeth C. Garcia, Adjunct Professor, 1999, BS, University of California, Los Angeles, 1979; PharmD, University of California, San Francisco, 1983.

Jose Luis Guzman Garcia, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2003.

Michael Anthony Garcia, Adjunct Professor, 2012, PharmD, University of California, San Francisco, 1998.

Kenneth Gardner, Adjunct Professor, 2014, BS, University of Florida, 1979; MS, University of Southern California, 1983.

Emily Garduno, Adjunct Professor, 2023, BA Applied Sciences, University of the Pacific, 2017, PharmD Pharmacy, University of the Pacific, 2017.

Morgan Gatzlaff, Adjunct Professor, 2020, PharmD Pharmacy, Butler University, 2016.

Phyllis Boldoza Gayda, Adjunct Professor, 2015, B.S., Biochemistry, University of California, Los Angeles, 2006; Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Rodney Gedey, Adjunct Professor, 2009, PharmD, BCPS, 2009, University of Illinois College of Pharmacy, 1998.

James Gee, Adjunct Professor, 2003, PharmD, University of British Columbia, 1984.

Michael T. Gee, Adjunct Professor, 2005, PharmD, University of the Pacific, 2000.

Joseph L. Geierman, Jr., Adjunct Professor, 1988, BS Pharm, Washington State University, 1972; PharmD, University of the Pacific, 1979.

Jessica Ann Gemmel, Adjunct Professor, 2015, A.S., Pharmacy, Flathead Community College, 2003; Pharm.D., Pharmacy, University of Montana, 2007.

Elmeriel Iruguin Genuino, Adjunct Professor, 2016, B.S., University of California, Los Angeles, 2002; PharmD, University of the Pacific, 2007

Catherine Ghaffari, Adjunct Professor, 2007, PharmD, South Dakota State University, 2001.

Nada Ghobrial, Adjunct Professor, 2014, BS, University of California, Los Angeles, 2004; PharmD, Western University of Health Sciences, 2010.

Abdul Ghorbandi, Adjunct Professor, 2022, BS Biomedical Sciences Minor in Pharmacology and Toxicology, University at Buffalo, 2012, MBA Business Administration, Roseman University of Health Sciences, 2016, PharmD Pharmacy, Roseman University of Health Sciences, 2016.

Muoi Gi, Adjunct Professor, 2008, PharmD, Western University, 2005.

Kayla Giang, Adjunct Professor, 2023, BS Biochemistry and Cell Biology, University of California, San Diego, 2006, MS Biology, University of California, San Diego, 2008, PharmD Pharmacy, University of California, San Diego, 2013.

William Giang, Adjunct Professor, 2012, BS, University of the Pacific, 2004; PharmD, University of the Pacific 2007.

Janeane Allison Giannini, Adjunct Professor, 2013, Pre-Pharmacy, University of the Pacific, 2003; PharmD, University of the Pacific, 2006.

Tajinder H. Gill, Adjunct Professor, 2013, BS, University of California, Riverside, 1984; PharmD, University of Southern California, 1988.

Elizabeth Rose Glinka, Adjunct Professor, 2016, B.S., University of California, Channel Islands, 2009; PharmD, University of the Pacific, 2012

Mark William Gloudeman, Adjunct Professor, 2005, BS, Loyola Marymount University, 1983; PharmD, Creighton University, 1988.

Eric Gnesa, Adjunct Professor, 2018, B.S., Biological Sciences, California State University, Stanislaus, 2009, M.S. Biological Sciences, University of the Pacific, 2011, PharmD, University of the Pacific, 2014.

Stephanie A. Gogon, Adjunct Professor, 2013, PharmD, University of Washington, School of Pharmacy, 1999.

Alan Goldberg, Adjunct Professor, 2006, Pharm.D., University of the Pacific, 2002.

Seth R. Gomez, Adjunct Professor, 2016, B.S., University of the Pacific, 2010; PharmD, University of the Pacific, 2013

Wailan Gong, Adjunct Professor, 2018, B.S. Physiological Science, University of California, Los Angeles, 1993, PharmD, University of the Pacific, 1997.

Adrian J. Gonzales, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2006.

Sanjay R. Goskonda, Adjunct Professor, 2001, BS Pharm, 1987, Kakatiya University, India; PhD, University of Missouri, Kansas City, 1992.

David R. Gray, Adjunct Professor, 1982, BS, California State University, Long Beach, 1970; MT, Johnson Laboratories, 1971; PharmD, University of Southern California, 1977.

Minnie Grewal, Adjunct Professor, 2007, PharmD, University of the Pacific, 2002.

Javier Guerrero, Adjunct Professor, 2000, PharmD, University of the Pacific, 1998.

Sibusisiwe Gumbo, Adjunct Professor, 2012, PharmD, University of California, San Francisco, 2003.

Nina Gurpreet, Adjunct Professor, 2016, PharmD, University of the Pacific, 2004.

Oscar Gutierrez, Adjunct Professor, 2013, PharmD, University of the Pacific, 2005.

Douglas Ha, Adjunct Professor, 2002, PharmD, University of the Pacific, 1992.

Amir Haddad, Adjunct Professor, 2023, PharmD Pharmacy, Massachusetts College of Pharmacy and Health Sciences, 2016, MBA Business Administration, Texas A&M University, 2022.

Sarah Halcomb, Adjunct Professor, 2020, PharmD Pharmacy, University of the Pacific, 2014.

James Lee Hall, Adjunct Professor, 2015, B.S., Biology, Brigham Young University, Idaho, 2006; Pharm.D., Pharmacy, University of the Pacific, 2010.

Dennis Ham, Adjunct Professor, 2003, PharmD, University of the Pacific, 1985.

Norman M. Hamada, Adjunct Professor, 1989, BS, University of California, Irvine, 1977; BA, 1977; PharmD, University of the Pacific, 1980.

Fang-Tzu L. Hamade, Adjunct Professor, 2016, PharmD, Ferris State University, 2008

Brandi Ann Hamilton, Adjunct Professor, 2017, B.F.A., Theater, Arkansas State University, 2001, PharmD, , University of Arkansas for Medical Sciences College of Pharmacy, 2014, M.S., Pharmacy Leadership and Administration, University of Houston College of Pharmacy, 2016.

Nancy Kyung Han, Adjunct Professor, 2012, BS, University of the Pacific, 2005; PharmD, University of the Pacific, 2008.

Sora Han, Adjunct Professor, 2006, PharmD, University of the Pacific, 2002.

Sheri Handford, Adjunct Professor, 2014, BS, University of California, Irvine, 1989; PharmD, University of Southern California, 1993.

Jeffrey R. Hansen, Adjunct Professor, 1995, BS, Oregon State University, 1978.

Tyler Hanson, Adjunct Professor, 2023, PharmD Pharmacy, University of the Pacific, 2010.

Katrina Harris, Adjunct Professor, BS, Biology, University of North Carolina at Greensboro, 2018, PharmD, Pharmacy, High Point University, 2022.

Mike Hart, Adjunct Professor, 2020, BA Chemistry, California State University, Fresno, 2003, PharmD Pharmacy, University of the Pacific, 2003.

Lisa R. Hasenmayer, Adjunct Professor, 2012, B.Pharm, Temple University, Philadelphia, 1999; PharmD, University of Colorado, Denver, 2012.

Usof Hashim, Adjunct Professor, 2020, BS Pharmaceutical Chemistry, University of California, Davis, 2017, PharmD Pharmacy, University of the Pacific, 2020.

Jonathan Hashimoto, Adjunct Professor, 2010, PharmD, University of the Pacific, 2008.

Noelle K. Hasson, Adjunct Professor, 1995, BA, University of California, 1990; PharmD, University of California, San Francisco, 1994.

Jayne Hastedt, Adjunct Professor, 2009, PhD, University of Wisconsin, Madison, 1990.

Janie K. Hatai, Adjunct Professor, 1986, AA, College of the Sequoias, 1975; BA, University of California, Berkeley, 1977; PharmD, University of the Pacific, 1982.

David E. Hebert, Adjunct Professor, 2012, BA, University of California, Santa Barbara, 1976; PharmD, University of California, San Francisco, 1980.

Lynn D. Hendrick, Adjunct Professor, 2023, PharmD Pharmacy, University of Pittsburgh, 2000.

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

Bridget Hernandez, Adjunct Professor, 2008, PharmD, University of the Pacific, CA, 2007.

Jimmy Hernandez, Adjunct Professor, 2016, B.S., California State University, Fullerton, 2005; PharmD, Massachusetts College of Pharmacy, 2012

Rosemary Hernandez, Adjunct Professor, 2009, PharmD, Ohio State University, 2004.

Danielle Herrmann, Adjunct Professor, 2017, PharmD, University of Kansas, 2013.

Glenn Alan Herskowitz, Adjunct Professor, 2015, B.S., Pharmacy, University of Sciences, Philadelphia College of Pharmacy, 1983; MBA, Business, Pepperdine University, 2000.

Kyle Higuchi, Adjunct Professor, 2021, Bachelors Pharmaceutical Science, Daniel K Inouye College of Pharmacy, 2012, PharmD Doctor of Pharmacy, Daniel K Inouye College of Pharmacy, 2012.

Berna Anne Hilgers, Adjunct Professor, 2016, PharmD, University of California, San Francisco, 1979

Catherine Hill, Adjunct Professor, 2010, Pharm.D., University of the Pacific, 2008.

Steven Thomas Hill, Adjunct Professor, 2013, PharmD, University of the Pacific, 1996.

Andrea B. Hinton, Adjunct Professor, 2000, BS, California State University, Long Beach, 1995; PharmD, University of California, San Francisco, 1999.

Jennifer T. Hirai, Adjunct Professor, 1999, PharmD, University of the Pacific, 1999.

Kimi Aileen Hiranaka, Adjunct Professor, 2013, BS, University of California, Berkeley, 2000; PharmD, University of Washington, 2005.

Beatrice E. Ho, Adjunct Professor, 2016, PharmD, Rutgers, The State University of New Jersey, 2013

Jackie Ho, Adjunct Professor, 2018, B.S., Biochemistry and Molecular Biology, 2011, MPH Master of Public Health, Touro University, 2015, PharmD, Touro University, 2015.

Jennifer Ho, Adjunct Professor, 2001, PharmD, University of Arizona, 2000.

Kim Ho, Adjunct Professor, 2018, PharmD, Massachusetts College of and Health Sciences, 2015,

Macy I. Ho, Adjunct Professor, 1987, PharmD, University of Southern California, 1985.

Mylinh Ho, Adjunct Professor, 2002, PharmD, University of the Pacific, 1999.

Joe H. Hoang, Adjunct Professor, 2010, PharmD, University of California, San Francisco, 1995.

Uyen Hoang, Adjunct Professor, 2006, PharmD, University of Southern California, 2003.

Samuel C. Hodges, Adjunct Professor, 2001, PharmD, University of the Pacific, 1999.

Brian D. Hodgkins, Adjunct Professor, 1991, BS, University of San Francisco, 1982; PharmD, University of Southern California, 1998.

Mark Holdych, Adjunct Professor, 1998, PharmD, University of Southern California, 1985.

Virigina C. Hon, Adjunct Professor, 2015, B.S., Biology/Psychology, University of California, Davis, 2009; Pharm.D., Pharmacy, University of the Pacific, 2012.

Helen Hong, Adjunct Professor, BS, Biology, University of California, San Diego, 2008, PharmD, Pharmacy, University of Michigan, 2014.

Sui Yuen Eddie Hou, Adjunct Professor, 1999, BS, University of Michigan, 1981; PhD, 1987.

Jennifer Howard, Adjunct Professor, 2008, PharmD, University of the Pacific, 2000.

Raymond S. Hoyt, Adjunct Professor, 2006, BA, San Jose State University, 1979; BS, Idaho State University, 1983.

Joanne Joyce Hsu, Adjunct Professor, 2012, PharmD, University of the Pacific, 2006.

Tong Huang, Adjunct Professor, 2020, PharmD Pharmacy, University of Colorado, 2018.

Felicia Vernon Huckaba, Adjunct Professor, 2016, B.S., California Polytechnic University, San Luis Obispo, 1991; PharmD, University of the Pacific, 1994

Hung Ngai John Hui, Adjunct Professor, 2022, BS Pharmacy, The Chinese University of Hong Kong, 2002, PharmD Pharmacy, North Dakota State University, 2006.

Harlan Husted, Adjunct Professor, 2007, PharmD, University of the Pacific, 2005.

Daniel Huynh, Adjunct Professor, 2014, PharmD, University of the Pacific, 2013.

Hong Huynh, Adjunct Professor, 2014, PharmD, University of the Pacific, 2012.

Khoa Tan Huynh, Adjunct Professor, 2012, PharmD, Massachusetts College of Pharmacy, Boston, 2004.

Nga N. Huynh, Adjunct Professor, 2000, PharmD, University of Washington, 1997.

Amy Hwang, Adjunct Professor, 2018, B.S., Biochemistry & Microbiology, University of California, Santa Cruz, 2008, PharmD, Touro University, 2016.

Francisco Ibarra, Adjunct Professor, 2017, BA, University of California, Santa Barbara, 2010; PharmD, University of California, San Francisco, 2014.

Mallory Ignacio, Adjunct Professor, 2014, BA, University of Hawaii at Manoa, 2007; PharmD, University of the Pacific, 2010.

Byung Im, Adjunct Professor, 2014, PharmD, Loma Linda University, 2010.

Cheryl D. Imoto, Adjunct Professor, 1995, PharmD, University of California, San Francisco, 1974.

Ronald M. Imoto, Adjunct Professor, 1987, AA, College of the Sequoias, 1967; PharmD, University of California, San Francisco, 1971.

Gretchen DeNike Irion, Adjunct Professor, 2016, B.S., University of California, Davis, 1985; PharmD, University of California, San Francisco, 1997

Eddie Isaac, Adjunct Professor, 2020, PharmD Pharmacy, University of the Pacific, 2011.

Risa Ishino, Adjunct Professor, 2016, PharmD, University of Southern California, 2007

Denis Yoshiyuki Ishisaka, Adjunct Professor, 2012, PharmD, University of the Pacific, 1988; Masters, MGH Institute of Health Professions, 2006.

Suraya Jabaiah, Adjunct Professor, 2019, "BS Pharmacology, University of California, Santa Barbara, 2008, MA Molecular, Cellular, and Developmental Biology, University of California, Santa Barbara, 2011, PharmD Pharmacy, University of California, San Diego, 2015."

Sara Christine Jacobs, Adjunct Professor, 2016, PharmD, University of Montana, 2012

Taline Jaghasspanian, Adjunct Professor, 2020, BS Exercise Science, University of Southern California, 1997, PharmD Pharmacy, University of the Pacific, 2001.

Raymond P. Jajeh, Adjunct Professor, 2009, PharmD, University of the Pacific, 1994.

Richard Jajeh, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 1995.

Mustafa Z. Jamal, Adjunct Professor, 2010, PharmD, University of the Pacific, 2004.

Venkateswar R. Jarugula, Adjunct Professor, 2003, B Pharm, Kakatiya University, 1987, PhD University of Athens, 2005.

Benjamin Joe, Adjunct Professor, 1997, BS, University of San Francisco, 1984; PharmD, University of the Pacific, 1989.

Doris Joe, Adjunct Professor, 1988, BS, Massachusetts College of Pharmacy, 1982.

Scott T. Johns, Adjunct Professor, 1988, BA, California State University, Fresno, 1982; PharmD, University of California, San Francisco, 1986.

Andrea Louie Johnson, Adjunct Professor, 2007, PharmD, University of California, San Francisco, 1969.

Jeff Jolliff, Adjunct Professor, 2011, PharmD, University of the Pacific, 2004.

Joseph Jolliff, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2009.

Eric Jones, Adjunct Professor, 2013, BS, University of California, Santa Barbara, 2005; PharmD, Touro University, California, 2010.

Kimberly S. Jones, Adjunct Professor, 1995, PharmD, University of California, San Francisco, 1993.

Raj L. Joshi, Adjunct Professor, 1989, BS, Bangalore University, India, 1973; BS, Creighton University, 1984.

Jeremiah Joson, Adjunct Professor, 2011, PharmD, University of the Pacific, 2003.

Sul Ran Jung, Adjunct Professor, 2016, B.S., University of Nevada, Reno, 2005; PharmD, University of Southern California, 2009

Kelsey Kaku, Adjunct Professor, 2021, BS Mathematics, Pacific University of Oregon, 2011, Master Business Administration, Creighton University, 2017, PharmD Pharmacy, Creighton University, 2017.

Linda Kalamkeryan, Adjunct Professor, 2020, BS Psychobiology, University of California, Los Angeles, 2011, PharmD Pharmacy, University of the Pacific, 2015.

Shawn Kanehira, Adjunct Professor, 2001, PharmD, University of California, San Francisco, 2000.

Alex Kang, Adjunct Professor, 2014, BS, University of Southern California, 2007; BS, University of Southern California, 2008; PharmD, University of the Pacific, 2012.

Kyong Kang, Adjunct Professor, 2002, BS, Massachusetts College of Pharmacy, 1989.

Ling Kao, Adjunct Professor, 2021, BS Genetics, University of California, Davis, 1999, PharmD Pharmacy, University of Southern California, 2004.

Tamra Kaplan, Adjunct Professor, 2002, BS, University of California, Irvine, 1986; PharmD, University of the Pacific, 1989.

Prajoel Karki, Adjunct Professor, 2016, B.S., University of Nebraska, Omaha, 2002; PharmD, University of Missouri, Kansas City, 2010

Lauren A. Kato, Adjunct Professor, 2022, BAAS , University of the Pacific, 2012, PharmD Pharmacy, University of the Pacific, 2015.

Daljit Kaur, Adjunct Professor, 2019, Bachelor of Pharmacy, Fiji School of Medicine, 2009.

Rajinder Kaur, Adjunct Professor, 2022, BS Life Sciences, University of California, Los Angeles, 2008, PharmD Pharmacy, Thomas Jefferson University, 2013.

Laura Sayaka Kawamoto, Adjunct Professor, 2013, PharmD, University of the Pacific, 2010.

Rashid Kazerooni, Adjunct Professor, 2013, PharmD, University of Kansas, 2005.

Maria Kazulauskas, Adjunct Professor, 1990, BS, Philadelphia College of Pharmacy & Science, 1990.

Beth Keeney, Adjunct Professor, 1995, BS, University of Michigan, 1982; PharmD, 1983.

Saraswati Kenkare-Mitra, Adjunct Professor, 2006, BS Pharm, Bombay College of Pharmacy, 1988; PhD, University of California, San Francisco, 1994.

Kelsea Kerr, Adjunct Professor, 2006, PharmD, University of the Pacific, 2003.

Alan Kersey, Adjunct Professor of Pharmacy Practice, 2017, Pharm.D., University of the Pacific, 1992.

Amir Khan, Adjunct Professor, 2009, BS Biology/Chemistry, 1993; PharmD, University of the Pacific, 1998.

S. Cyrus Khojasteh-Bakht, Adjunct Professor, 2009, PhD, University of Washington, 1998.

Janet C. Kim, Adjunct Professor, 2005, AA, Citrus College, 1982; PharmD, University of Southern California, 1986.

Kyung Rim Kim, Adjunct Professor, 2016, BA, University of the Pacific, 2015; PharmD, University of the Pacific, 2015

Michelle H. Kim, Adjunct Professor, 2015, B.S., Psychobiology, University of California, Los Angeles, 2005; Pharm.D., Pharmacy, University of the Pacific, 2008.

Seung Bin Kim, Adjunct Professor, 2009, PharmD, University of Michigan College of Pharmacy.

Youbin Kim, Adjunct Professor, 2013, PharmD, Butler University, 2005.

Linda Thanh Kimura, Adjunct Professor, 2015, B.S., Microbiology, Immunology and Molecular Genetics, University of California, Los Angeles, 2004; Pharm.D., Pharmacy, University of California, San Francisco, 2009.

Charles King, Adjunct Professor, 1994, BA, University of California, Berkeley, 1988; PharmD, University of California, San Francisco, 1993.

Robin Lynn Kinnear, Adjunct Professor, 2013, BS, University of California, Davis, 2007; PharmD, University of California, San Diego, Skaggs School of Pharmacy, 2011.

Marc Joseph Klanjac, Adjunct Professor, 2013, PharmD, University of the Pacific, 2005.

Alden Klemm, Adjunct Professor, 2014, BS, California State University, Fresno, 2008.

Ella Kleyman, Adjunct Professor, 1999, BS Pharm, North Eastern University, 1997.

Edward G. Kluj, Adjunct Professor, 1989, BA, University of South Florida, 1983; PharmD, University of the Pacific, 1985.

Jamie Kneebusch, Adjunct Professor, 2019, BS Biochemistry, California State University, Fullerton, 2012, PharmD Pharmacy, University of California, San Diego, 2016.

Tobi Knepler-Foss, Adjunct Professor, 2022, BS Human Biology, University of California, San Diego, 2013, PharmD Pharmacy, University of the Pacific, 2017.

Caroline L. Ko, Adjunct Professor, 2015, B.S., University of California, San Diego, 2005; Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Gina Ko, Adjunct Professor, 2014, BS, University of California, Berkeley, 2007; PharmD, University of California, San Francisco, School of Pharmacy , 2011.

Janell K. Kobayashi, Adjunct Professor, 2013, BA, University of California, Berkeley, 1994; PharmD, University of California, San Francisco, School of Pharmacy , 2001.

Kevin Lee Hajime Komoto, Adjunct Professor, 2017, PharmD, University of the Pacific, 2008, MBA, Business Administration, University of the Pacific, 2009.

William A. Koole, Jr., Adjunct Professor, 1990, AS, Fresno City College, 1975; BS, California State University, Fresno, 1978; PharmD, University of California, San Francisco, 1984.

Gerald Koori, Adjunct Professor, PharmD, Pharmacy, University of Bradford, UK, 2002.

Jim Korb, Adjunct Professor, 2003, BS, Purdue University, 1984.

Mari Koshkakaran, Adjunct Professor, 2016, BA, California State University, Fresno, 2012; PharmD, University of the Pacific, 2015

Viral S. Kothary, Adjunct Professor, 2006, BS, University of Southern California, 1999; PharmD, University of the Pacific, 2002.

Charles G. Krasner, Adjunct Professor, 1997, BA, University of Michigan, 1978; MD, New York University, 1982.

Brian L. Kubel, Adjunct Professor, 2006, PharmD, University of California, San Francisco, 1998.

Shivilesh Kumar, Adjunct Professor, 2021, BS Pharmaceutical Chemistry, University of California, Davis, 2017, PharmD Pharmacy, University of the Pacific, 2020.

Vinay Kumar, Adjunct Professor, 2014, BS, University of the Pacific, 2006; PharmD, University of the Pacific, 2010.

JAbigail Marie Kurtz, Adjunct Professor, 2017, BA, Biological Sciences, California State University Sacramento, 2010, PharmD, University of the Pacific, 2013.

Rouxann Kuwata, Adjunct Professor, 1995, PharmD, University of the Southern California, 1991.

Brenik Kuzmic, Adjunct Professor, 2014, AS, Boise State University, 2000; PharmD, Idaho State University, 2005.

Cynthia Y. Kwan, Adjunct Professor, 2008, PharmD, University of the Pacific, 2003.

Novena T. Kwok, Adjunct Professor, 2016, PharmD, University of the Pacific, 1995

Denise Kwong , Adjunct Professor, 2018, B.S., Human Biology and Biochemistry/Chemistry, University of California, San Diego , 2006. PharmD Skaggs School of and Pharmaceutical Sciences 2010, 2018

Kar Kwong, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific.

Teresa Y. Kwong, Adjunct Professor, 2013, PharmD, University of the Pacific, 2005.

Amanda La, Adjunct Professor, 2003, PharmD, University of the Pacific, 1995.

Jonathan Lacro, Adjunct Professor, 1992, PharmD, University of the Pacific, 1990.

Candace A. Lagasse, Adjunct Professor, 2005, PharmD, University of California San Francisco, 2000.

Farshid Laghaei, Adjunct Professor, 2005, BS, 1993; MS, 1994; PharmD, California State University, Los Angeles, 1998.

Chi-Leung Lai, Adjunct Professor, 2005, PharmD, University of California San Francisco, 1986.

Eric Lai, Adjunct Professor, 2000, PharmD, University of California, San Francisco, 1997.

Jennifer Lai, Adjunct Professor, 2008, PharmD, University of Pacific, 1998.

Luyen Lai, Adjunct Professor, 2007, BS, University of California, Davis, 1998; PharmD, University of the Pacific, 2001.

Jitendra Lal, Adjunct Professor, 2009, PharmD University of the Pacific, 2006.

Oanh A. Lam, Adjunct Professor, 2015, B.S., Chemistry, University of California, Los Angeles, 2005; Pharm.D., Pharmacy, Howard University, 2011.

Vivian Ka-Wah Lam, Adjunct Professor, 2013, BA, University of California, Berkeley, 1996; PharmD, University of California, San Francisco, 2001.

Ke Lan, Adjunct Professor, 2015, Ph.D., West China School of Pharmacy, Sichuan CHINA, 2007; M.S., West China School of Pharmacy, Sichuan CHINA, 2004; B.S., West China School of Pharmacy, Sichuan CHINA, 2001.

Courtney Eugene Lang, Adjunct Professor , 2011 , PharmD, University of Georgia, College of Pharmacy, 2006.

Giovanni Lares, Adjunct Professor, 2014, BS, University of California, Berkeley, 2006; PharmD, University of Michigan, 2011.

Janet Stein Larsen, Adjunct Professor, 2007, PharmD, 1981.

Andrew Lau, Adjunct Professor, 2019, BA Biology and Anthropology, University of Hawaii at Manoa, 2011, PharmD Pharmacy, University of Washington, 2015.

Cindy Lau, Adjunct Professor, 2023, BS Physiological Science, University of California, Los Angeles, 2000, PharmD Pharmacy, University of the Pacific, 2006.

Michael Lau, Adjunct Professor, 2023, PharmD Pharmacy, St. John's University, 2019.

Sherman Lau, Adjunct Professor, 2007, BS, University of California, Davis, 2000; PharmD, University of the Pacific, 2005.

Tamar Lawful, Adjunct Professor, 2014, PharmD, Philadelphia College of Pharmacy and Science at the University of the Sciences, Philadelphia, Pennsylvania, 2004.

Oska Lawrence, Adjunct Professor, 2014, BA, University of Hawaii at Manoa, 2008; PharmD, University of the Pacific, 2012.

Donald L. Lazzaretto, Adjunct Professor, 1996, PharmD, University of California, San Francisco, 1972.

Amy C. Le, Adjunct Professor, 2000, BS, University of California, Los Angeles, 1987; PharmD, University of California, San Francisco, 1991.

Anhdiem Le, Adjunct Professor, 2014, PharmD, Western University of Sciences, College of Pharmacy, 2011.

Daisy Le, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2005.

Grace Le, Adjunct Professor, 2011, BS, University of California, Davis, 1997; PharmD, University of Minnesota, 2001.

Jessica M Le, Adjunct Professor, 2013, BS, University of California, Davis, 2006; PharmD, Western University of Sciences, College of Pharmacy, 2011.

Khuyen Le, Adjunct Professor, 2018, B.S., Biology, Fresno State University, 2006, PharmD, University of the Pacific, 2010.

NhuAnh Le, Adjunct Professor, 2018, BA, Applied Science, University of the Pacific, 2015, PharmD, University of the Pacific, 2015.

Philip Le, Adjunct Professor, 2006, BS, University of California, Davis, 1999; PharmD, Western University, 2003.

Tina Le, Adjunct Professor, 2018, B.S., Biology, University of California, Davis, 1999, PharmD, Temple University School, PA, 2004.

Tung Ba Le, Adjunct Professor, 2016, PharmD, University of the Sciences of Philadelphia, 2004

Tung N. Le, Adjunct Professor, 2001, BS Pharm, University of Wisconsin-Madison, 1996; PharmD, University of Wisconsin-Madison, 1997.

Jasmine Le-Thi, Adjunct Professor, 2015, B.S., Pharmacy, Montreal University, Canada, ; LL.B., Law , Laval University, Canada.

Angela Leahy, Adjunct Professor, 2012, BS, University of California, Davis, 2003; PharmD, University of California, San Francisco, 2009.

Kevin Leahy, Adjunct Professor, 2021, MS Nutrition, University of California, Davis, 2001, PharmD Pharmacy, University of the Pacific, 2011.

Jessica Leang, Adjunct Professor, 2013, PharmD, University of Wisconsin-Madison, 2003.

Susan Leckband, Adjunct Professor, 2001, BA English, University of Washington, 1991, BS Pharm, University of Washington, 1991.

Adam S. Lee, Adjunct Professor, 2000, BS, San Francisco State University, 1988; PharmD, University of California, San Francisco, 1992.

Ann Ngoc Lee, Adjunct Professor, 2012, PharmD, University of California, San Francisco, 2009.

Annie Lee, Adjunct Professor, 2003, PharmD, University of the Pacific, 1996.

Carol Lee, Adjunct Professor, 2014, BA, University of Hawaii, 2004; PharmD, University of the Pacific, 2008.

Dennis Lee, Adjunct Professor, 2006, BS, University of North Carolina, 1995; PharmD, 2004.

Diane Lee, Adjunct Professor, 2017, PharmD, University of the Pacific, 2010.

Diane Song Lee, Adjunct Professor, 2013, BA, Pomona College, Claremont, 1999; PharmD, University of California, San Francisco, School of Pharmacy, 2004.

Edward Lee, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 2010.

James Lee, Adjunct Professor, 2016, PharmD, University of the Pacific, 1998

Jennifer P Lee, Adjunct Professor, 2008, PharmD, University of Southern California, 2001.

Katherine Lee, Adjunct Professor, 2003, PharmD, University of San Francisco, 2001.

Kim Lee, Adjunct Professor, 2023, BS Biochemistry and Molecular Biology, University of California, Davis, 2005, PharmD Pharmacy, University of Southern California, 2010.

Linda Lee, Adjunct Professor, 1998, BA, University of California, Berkeley, 1991, PharmD, University of California, San Francisco, 1996.

Lisa Beth Lee, Adjunct Professor, 2006, PharmD, University of North Carolina, 2004.

Mary H. Lee, Adjunct Professor, 2013, BA, University of California, Berkeley, 1999; PharmD, University of California, San Francisco, 2004.

Matthew N. Lee, Adjunct Professor, 2015, B.S., Biochemistry, University of California, Davis, 2007; Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Roy Lee, Adjunct Professor, 2012, BS, University of California, Los Angeles, 2004; PharmD, University of California, San Diego.

Samuel Lee, Adjunct Professor, 1995, PharmD, University of the Pacific, 1988.

Sandra Lee, Adjunct Professor, 2014, BS, University of the Pacific, 1973.

Shawn Lee, Adjunct Professor, 2014, Ph.D., Institute of Chemistry, Academy Sinica, China, 1988; B.A, Wuhan University, China, 1983.

Sunny Soning Lee, Adjunct Professor, 2017, B.S., Biochemistry, University of California, Riverside, 2010, PharmD, University of the Pacific, 2014.

Susan C. Lee, Adjunct Professor, 1981, BA, University of California, Santa Barbara, 1971; PharmD, University of the Pacific, 1974.

Virginia Lee, Adjunct Professor, 1995, PharmD, University of California, San Francisco 1982.

Tiffany Lee-Chan, Adjunct Professor, 2018, PharmD, University of Arizona College of Pharmacy, 2014.

Jamie Legaspi, Adjunct Professor, 2021, BA Applied Sciences, University of the Pacific, 2018, PharmD Pharmacy, University of the Pacific, 2018.

Elaine Lei, Adjunct Professor, 1999, BS, University of California, Los Angeles, 1993; PharmD, University of California, San Francisco, 1997.

Julie Lenhart, Adjunct Professor, 2011, BS, University of Mexico, 1979; MS, University of Kansas, 1985.

Pamela M. Lenhart, Adjunct Professor, 2016, PharmD, University of Southern California, 1975

David Lennon, Adjunct Professor, 1996, AA, Blinn College, 1985; BS, University of Houston, 1988.

Lucia Rubio Coss y Leon, Adjunct Professor, 2018, BA, Chemistry, California State University, Fresno, 2008, PharmD, University of California, San Francisco, 2012.

Patrick LeRoy, Adjunct Professor, 2012, PharmD, University of the Pacific, 2006.

Shawn Lester, Adjunct Professor, 2019, BS Biochemistry and Molecular Biology, University of California, Davis, 2007, PharmD Pharmacy, University of California, San Francisco, 2015.

Albert Leung, Adjunct Professor, 2018, B.S., Biology, University of California, San Diego, 2009, PharmD, University of the Pacific, 2012.

Gabriel Leung, Adjunct Professor, 2004, AA, Delta Junior College, 1989; BS, 1995; PharmD, University of the Pacific, 2000.

Lyubov Levin, Adjunct Professor, 2012, PharmD, University of California, San Francisco, 2001.

Justin Christopher Lewis, Adjunct Professor, 2013, BS, California State University, Fullerton, 2005; PharmD, University of California, San Francisco, 2009.

Carmen Li, Adjunct Professor, 2019, BA Molecular and Cell Biology, University of California, Berkeley, 2011, PharmD Pharmacy, Touro University, 2016.

Jain-Xin Li, Adjunct Professor, 2007, MS, Beijing University, 1986; PhD, University of Toronto, 1997.

Phoebe Y. Li, Adjunct Professor, 1999, BA, University of California, Berkeley, 1983; PharmD, University of California, San Francisco, 1987.

Vincent Li, Adjunct Professor, 2019, BA Molecular and Cell Biology, University of California, Berkeley, 2004, PharmD Pharmacy, University of California, San Francisco, 2009.

Jenny Liang, Adjunct Professor, 2022, BS Biochemistry – Cell Biology, University of California, San Diego, 2013, PharmD Pharmacy, University of California, San Diego, 2018.

Jessica Cheng-Yu Liang, Adjunct Professor, 2016, B.S., University of the Pacific, 2014; PharmD, University of the Pacific, 2014

Zhi Mei Judy Liang, Adjunct Professor, 2005, BS, University of California, Los Angeles, 1995; PharmD, University of California, San Francisco, 1999.

George Liao, Adjunct Professor, 2005, BS, Long Island University, 1985; BS, Stanford University, 1989; MBA, Claremont Graduate University, 1997.

Paul Librodo, Adjunct Professor, 2013, PharmD, Northeastern University, 2006.

Tsung-Chi Lien, Adjunct Professor, 2014, MS, University of Iowa, 2004; PharmD, University of Iowa, 2008.

Antoinette Lieu, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2013.

Robert A. Likens, Adjunct Professor, 1998, BS, University of Wisconsin, 1967; BS, University of Wisconsin, 1980.

Jeremy Jason Lim, Adjunct Professor, 2016, PharmD, University of the Pacific, 2012

Julie L. Lim, Adjunct Professor, 2012, PharmD, University of the Pacific, 2005.

Lesley Lim, Adjunct Professor, 2009, PharmD, University of Southern California School of Pharmacy, 2006.

Terri Lim, Adjunct Professor, 2010, PharmD, University of Southern California, 1998.

Maria Lisa De Lima, Adjunct Professor, BA, Psychology, Art, Duke University, 1990; M.S., Counseling, State University of New York - College at Oneonta, 1994; M.D., Medicine, Creighton University, 2002., 2015

Joyce K. Lin, Adjunct Professor , 2011 , PharmD, California University of San Francisco, 2004.

Lana Lin, Adjunct Professor, 2007, BS, University of California, Davis, 1996; PharmD, University of the Pacific, 2002.

Tristan A. Lindfelt, Adjunct Professor, 2008, PharmD, University of California at San Francisco, 2007.

Janice Lindsey, Adjunct Professor, 2006, BSPHarm., University of the Pacific, 1972.

Joseph Liu, Adjunct Professor, 1999, PharmD, University of the Pacific, 1996.

May C. Liu, Adjunct Professor, 2022, BAAS , University of the Pacific, 2013, PharmD Pharmacy, University of the Pacific, 2016, MS Pharmacoeconomics, Health Care Outcomes, and Clinical Services, University of the Pacific, 2019.

Puchun Liu, Adjunct Professor, 2004, BS, Shanghai First Medical College, 1982; PhD, University of Utah, 1989.

Yue Liu, Adjunct Professor, 2019, BA Molecular and Cell Biology, University of California, Berkeley, 2001, PharmD Pharmacy, University of Maryland, School of Pharmacy, 2005.

Kaitlyn Loi, Adjunct Professor, 2019, PharmD Pharmacy, University of Rhode Island, 2016.

Maureen Long, Adjunct Professor, 1996, BS, California State University, Los Angeles, 1975; PharmD, University of California, San Francisco, 1994.

Gregg A. Loo, Adjunct Professor, 2005, BS, University of Oregon, 1995; PharmD, University of Washington, 2002.

Wenee Liu Lopez, Adjunct Professor, 2012, BS, Santa Clara University, 1995; PharmD, University of California, San Francisco, 1999.

Douangdara Lor, Adjunct Professor, 2022, BA Biology, Alverno College, 2001, PharmD Pharmacy, University of the Pacific, 2013.

Sarah S. Louie, Adjunct Professor, 2008, PharmD, University of the Pacific, 2004.

Daniel Jimmy Louis, Adjunct Professor, 2016, BS, University of California, Davis, 2006; PharmD, Touro University, 2010.

Andrew G. Lowe, Adjunct Professor, 1995, BA, University of California, Los Angeles, 1977; PharmD, University of California, San Francisco, 1987.

Chai Lowe, Adjunct Professor, 2009, PharmD, Albany College of Pharmacy, 1996.

David J. Lozano, Adjunct Professor, 2003, BS Pharm University of the Pacific, 1978.

Nicole B. Lu, Adjunct Professor, 2019, BA Chemistry, University of Hawaii, Mānoa, 2006, PharmD Pharmacy, University of California, San Francisco, 2010.

Tuyet Lu, Adjunct Professor, 2018, B.S. Biological Sciences, University of the Pacific, 1993, PharmD University of the Pacific, 1996.

Vincent Lu, Adjunct Professor, 2022, BS Neurobiology, Physiology, & Behavior, University of California, Davis, 2018, PharmD Pharmacy, University of the Pacific, 2021.

Kimberly Lui, Adjunct Professor, 2014, BS, University of California, Los Angeles, 2008; PharmD, University of California, San Francisco, 2012.

Kimberly G.W. Luk, Adjunct Professor, 1998, BA, University of California, Berkeley, 1989; PharmD, University of California, San Francisco, 1994.

Bertram L. Lum, Adjunct Professor, 2020, PharmD Clinical Pharmacy, University of the Pacific, 1976.

Karla Aguirre Luna, Adjunct Professor, 2021, BS Nutritional Biochemistry, University of California, Davis, 2014, PharmD Pharmacy, Touro University, 2020.

Vanessa Banuelos Lund, Adjunct Professor, 2016, PharmD, University of the Pacific, 2007

Sylvia Luong, Adjunct Professor, 2015, B.S., Biochemistry , University of the Pacific, 2001; Pharm.D., Pharmacy, University of the Pacific, 2005.

Benjamin Ly, Adjunct Professor, 2014, PharmD, University of Southern California, 1990.

Ariel Ma, Adjunct Professor, 2014, BS, University of California, San Diego, 2004; PharmD, Touro University, 2012.

Chi Ma, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2005.

Jingwen "Jenny" Ma, Adjunct Professor, 2006, BS, University of Sciences & Technology, 1992; PhD, University of Wisconsin, Madison, 1998.

Crystal R. Maas, Adjunct Professor, 2006, BA, Macalester College, MN, 2000; PharmD, University of California, San Francisco, 2004.

Katherine Maass, Adjunct Professor, 2019, BS Chemical Engineering, University of Texas at Austin, 2011, PhD Chemical Engineering, Massachusetts Institute of Technology, 2015.

Anne Mayyee Mac, Adjunct Professor, 2005, BS, University of California, Davis, 1986; PharmD, 1996.

Aline Mack, Adjunct Professor, 2004, BS University of California, Irvine, 1995; PharmD, University of Southern California, 1999.

Angela Mack, Adjunct Professor, 2020, PharmD Pharmacy, University of the Pacific, 2009.

Ana Maria MacKay, Adjunct Professor, 2014, PharmD, University of the Pacific, 1990.

Daniel S. Maddix, Adjunct Professor, 1995, AA, Hartnell Community College, 1982; PharmD, University of the Pacific, 1985.

Kevin Maeda, Adjunct Professor, 2020, BS Molecular and Cellular Biology, Biochemistry emphasis, University of California, Berkeley, 2003, PharmD Pharmacy, Roseman University, 2011.

Sabrina Mahal, Adjunct Professor, BS, Applied Science, University of the Pacific, 2017, PharmD, Pharmacy, University of the Pacific, 2017

Ravichandran Mahalingam, Adjunct Professor, 2007, MS, Dr MGR Medical University, Chennai, India, 1994; PhD, Dr MGR Medical University, Chennai, India, 2002.

Veneeta K. Maharaj, Adjunct Professor, 2012, BS, University of California, Irvine, 1994; MS, California State University, Long Beach, 1997; PharmD, University of the Pacific, 2005.

Nasiba Abuhmdan Makarem, Adjunct Professor, 2002, Adjunct Professor, BA, University of Southern California, 1997; PharmD, University of the Pacific, 2001.

Umer Malik, Adjunct Professor, 2014, MD, Dow Medical College, Karachi, Pakistan, 2005.

Robert A. Malmstrom, Adjunct Professor, 2005, PharmD, University of California San Francisco, 1993.

Kristine Markham, Adjunct Professor, 2019, BS Pharmaceutical Sciences, University of California, Irvine, 2013, PharmD Pharmacy, University of the Pacific, 2016.

Gina L. Marotto, Adjunct Professor, 2015, B.S., Biochemistry, University of California, Santa Barbara, 2007; Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Heather E. Martin, Adjunct Professor, 2005, A.A., Florida State University, 1997; PharmD, University of Florida, 2001.

Nicole Martinez, Adjunct Professor, 2014, BA, California State University, Fresno, 2008; PharmD, University of the Pacific, 2012.

Richard Medeiros Martinez, Adjunct Professor, 2013, BS, University of California, San Diego, 2008; PharmD, University of California, San Francisco, 2012.

Kelly Y. Matsuda, Adjunct Professor, 1996, PharmD, University of the Pacific, 1984.

Karol K. Matsune, Adjunct Professor, 2000, BS, University of California, Davis, 1985; PharmD, University of California, San Francisco, 1989.

Bonnie Y. Matsuoaka, Adjunct Professor, 2009, PharmD, University of California, San Francisco, 1987.

Jeffrey McCamish, Adjunct Professor, 2023, BS Biology, Fresno State University, 2000, PharmD Pharmacy, University of Southern California, 2004.

Caterina McConnell, Adjunct Professor, 2018, BA, Molecular and Cell Biology, University of California, Berkeley, 2001, PharmD, University of Southern California, 2009.

Tracey J. McGaughey, Adjunct Professor, 2015, Pharm.D., Pharmacy, St. John Fisher College, 2011.

Colin David, McGuire, Adjunct Professor, 2017, B.S., Environmental Health, San Diego State University, 1996, B.S., Pharmacy, Midwestern University, 1999, PharmD, Pharmacy, Midwestern University, 2000.

Karen L. McLemore, Adjunct Professor, 2009, PharmD, Lewis and Clark College and University of the Pacific.

Brittany McManaman, Adjunct Professor, 2023, BS Psychobiology, University of California, Los Angeles, 2012, PharmD Pharmacy, University of the Pacific, 2015.

Linsey McMinn, Adjunct Professor, 2021, BS Biochemistry, California Polytechnic State University, San Luis Obispo, 2011, PharmD Pharmacy, University of the Pacific, 2014.

Reena Mehta, Adjunct Professor, PharmD, Pharmacy, University of the Sciences in Philadelphia, 2010.

Joy L. Meier, Adjunct Professor, 1995, BS, University of Wisconsin, 1978; BS, Philadelphia College of Pharmacy & Science, 1989; PharmD, 1990.

Pierre J. Menard, Adjunct Professor, 2001, BA, PharmD, University of Southern California.

Margaret Mendes, Adjunct Professor, 2013, BS, Texas Tech University, 1997; PharmD, Virginia Commonwealth University, 2002.

Lee Troung Mendoza, Adjunct Professor, 2009, PharmD, University of the Pacific, 2003.

Patrick Meneses, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 2007.

Lina Meng, Adjunct Professor, 2012, BS, University of California, Berkeley, 2005: PharmD, University of California, San Diego, 2009.

Elhaam Mesghali, Adjunct Professor, 2018, BS Public Health Sciences, University of California, Irvine, 2013, PharmD Pharmacy, University of the Pacific, 2017.

Giovanni (John) S. Miano, Adjunct Professor, 2008, University of the Pacific, 1980.

Carol Millage, Adjunct Professor, 2018, PharmD, University of Southern California, 1993.

Amber Miller, Adjunct Professor, 2014, BA, California State University, Northridge, 2003; PharmD, University of Southern California, 2009.

Nataliya Miller, Adjunct Professor, 2017, B.S., Biological Sciences, California Polytechnic State University, 2008, PharmD, University of the Pacific, 2013.

Jill Janice Minudri, Adjunct Professor, 2016, BA, California State University, Chico, 1983; B.S., Oregon State University, 1996

Joseph Mishreki, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2013.

Randell Miyahara, Adjunct Professor, 2000, PharmD, University of California, San Francisco, 1985.

Ashley Miyasaki, Adjunct Professor, 2018, BA, Applied Sciences, University of the Pacific, 2015, PharmD, University of the Pacific, 2015.

Douglas Modi, Adjunct Professor, 2008, BPharm, University of Iowa, 1987; PhD, University of Iowa, 1991.

Douglas N. Modlin, Adjunct Professor, 2006, BS, California State Polytechnic University, 1975; MS, Stanford University, 1978; PhD, Stanford University, 1983.

Gale W. Moniz, Adjunct Professor, 1995, AA, Chaffy College, 1975; BS, University of Arizona, 1978.

Esther Moon, Adjunct Professor, 2023, BA Molecular and Cell Biology, University of California, Berkeley, 2011, PharmD Pharmacy, University of California, San Francisco, 2021.

Esther Moon, Adjunct Professor, 2024, BA, Psychology, University of Illinois at Chicago, 2010, PharmD, Pharmacy, University of Illinois at Chicago, 2014

Emily Rose Moore, Adjunct Professor, 2006, BS, Westmont College, 2000; PharmD, University of California, San Francisco, 2004.

Michael B. Moore, Adjunct Professor, 2000, BS, University of Florida, 1982.

Kaitlyn Moorehead, Adjunct Professor, 2018, B.S., Molecular Cell Developmental Biology, University of California, Santa Cruz, 2010, PharmD, University of Colorado School of Pharmacy, 2015.

Deborah Moran, Adjunct Professor, 2011, PharmD, University of Arizona, 1999.

Candis M. Morello, Adjunct Professor, 2013, BA, University of California, Davis, 1991; PharmD, University of California, San Francisco, 1996.

Kristina N. Mori, Adjunct Professor, 1997, PharmD, University of California, San Francisco, 1988.

Wendy Morimoto, Adjunct Professor, 2011, BS, San Jose State University, 2003; PharmD, Western University of Health Sciences, 2009.

Laura Morodomi, Adjunct Professor, 2007, BS, University of California, Davis, 1987; PharmD, University of California San Francisco, 1992.

Anthony P. Morreale, Adjunct Professor, 1986, PharmD, University of the Pacific, 1983.

Suzanne Morris, Adjunct Professor, 2009, PharmD, San Francisco University of California, San Francisco, 1981.

Diana Morton, Adjunct Professor, 2006, PharmD, University of California, San Francisco, 1992.

Sakura Moua, Adjunct Professor, 2020, BS Pharmacological Chemistry, University of California, San Diego, 2008, PharmD Pharmacy, Touro University, California, 2013.

William Thomas Moy, Adjunct Professor, 2012, BS, University of California, Davis, 2002; PharmD, University of the Pacific, 2006.

Sri Mudumba, Adjunct Professor, 2006, BS Pharm, Kakatiya University, 1989; MS Pharm, Jadavpur University, 1991; PhD, University of the Pacific, 1996.

Emily Mui, Adjunct Professor, 2012, PharmD, Northeastern University, 2008.

Arti Mulchandani, Adjunct Professor, 2020, BA Applied Science, University of the Pacific, 2017, PharmD Pharmacy, University of the Pacific, 2017.

Nikki Mulligan, Adjunct Professor, 2020, BS Biology, Saint Mary's College of California, 2008, PharmD Pharmacy, University of California, San Diego, 2017.

William E. Murray, Adjunct Professor, 2009, PharmD, University of the Pacific, 1984.

Eric Myers, Adjunct Professor, 2018, PharmD, Butler University, 2013.

Jenna Kathryn Nader, Adjunct Professor, 2013, BS, University of Maryland, 2006; PharmD, University of Maryland School of Pharmacy, 2011.

Ronald E. Nagata, Jr., Adjunct Professor, 2004, PharmD, University of California, San Francisco, 1968.

Calvin Nakamoto, Adjunct Professor, 1991, PharmD, University of California, San Francisco, 1989.

Trisha Nakasone, Adjunct Professor, 2019, BS Psychobiology, University of California, Los Angeles, 2003, PharmD Pharmacy, Creighton University, 2007.

Corey Nakata, Adjunct Professor, 2021, Bachelor of Arts in Applied Sciences Pre-Pharmacy Studies, University of the Pacific, 2014, PharmD Pharmacy, University of the Pacific, 2017.

Kasra Navab, Adjunct Professor, 2017, BA, History, University of California, Los Angeles, 2009, PharmD, University of the Pacific, 2014.

Michael Allen Neasham, Adjunct Professor, 2015, B.S., Microbiology, University of California, Davis, 1994; Pharm.D., Pharmacy, University of the Pacific, 1997.

Jenny New, Adjunct Professor, 2023, BS Molecular Environmental Science, University of California, Berkeley, 2011, PharmD Pharmacy, University of California, San Francisco, 2017.

Harold Newton, Adjunct Professor, 2007, BS, Idaho State University, 1985.

Chee M. Ng, Adjunct Professor, 2004, BS, State University of New York, Buffalo, 1991; PharmD, University of Illinois, 1992; PhD, University of North Carolina, Chapel Hill.

Gordon Ng, Adjunct Professor, 2014, BS, University of California, Davis, 2008; PharmD, University of the Pacific, 2011.

Jerry Ng, Adjunct Professor, 2012, PharmD, Western University of Health Sciences, 2007.

Edna O. Ng-Che, Adjunct Professor, 2008, PharmD, University of Southern California, 2001.

Alfred Ngaw, Adjunct Professor, 2009, PharmD, BCPS, University of California San Francisco, 2005.

Thy Thi Phoung Nghiêm, Adjunct Professor, 2012, PharmD, University of the Pacific, 2006.

Shirley Ngo, Adjunct Professor, 2018, B.S., Chemistry-Biology, University of the Pacific, 2007, PharmD, University of the Pacific, 2011.

Anne C. Nguyen, Adjunct Professor, 2008, PharmD, University of California Los Angeles, 2003.

Annette T. Nguyen, Adjunct Professor, 2008, PharmD University of California at San Francisco, 2006.

Bailey Nguyen, Adjunct Professor, 2013, BA, University of California, Davis, 2005; PharmD, University of the Pacific, 2008.

Cherwyn Flores Nguyen, Adjunct Professor, 2012, BS, University of California, Berkeley, 2000; PharmD, University of California, San Francisco, 2005.

David H. Nguyen, Adjunct Professor, 2013, BS, University of California, Davis, 1990; PharmD, University of California, San Francisco, 1997.

David Quang Nguyen, Adjunct Professor, 2016, B.S., University of California, Irvine, 2010; PharmD, Midwestern University Chicago College of Pharmacy, 2014

DiemThuy Nguyen, Adjunct Professor, 2013, BS, University of California, Los Angeles, 2001; PharmD, University of California, San Francisco, 2005.

Diep T. Nguyen, Adjunct Professor, 2001, PharmD, University of the Pacific, 1999.

Elisabeth Nguyen, Adjunct Professor, BA, Applied Sciences, University of the Pacific, 2019, PharmD, Pharmacy, University of the Pacific, 2022

Giang Nguyen, Adjunct Professor, 2013, PharmD, Drake University, Iowa, 2003.

Giang C. Nguyen, Adjunct Professor, 2002, PharmD, Western University of Health Sciences, 2001.

Hoa Nguyen, Adjunct Professor, 2014, BS, San Diego State University, 2001; PharmD, Western University of Health Sciences, 2005.

Joseph Ba Nguyen, Adjunct Professor, 2013, BS, Arizona State University, 2005; PharmD, University of Illinois-Chicago, 2011.

Khanh L. Nguyen, Adjunct Professor, 2008, PharmD, University of Southern California, 2004.

Khiem Nguyen, Adjunct Professor, 2022, BS Chemistry, California State University, Bakersfield, 1991, PharmD Pharmacy, University Of California, San Francisco School of Pharmacy, 1996, MBA Management, California State University, San Bernardino, 2015.

Lynda Nguyen, Adjunct Professor, 2014, BS, College of William & Mary, 2005; PharmD, University of California, San Francisco, 2009.

Man Minh Nguyen, Adjunct Professor, 2017, B.S., Chemistry, University of California, San Diego, 2010, PharmD, Pharmacy, Loma Linda University, 2014.

Matthew Nguyen, Adjunct Professor, 2022, BS Biochemistry, California State University, Fullerton, 2008, PharmD Pharmacy, University of Southern California, 2012.

Nam V. Nguyen, Adjunct Professor, 2013, BS, University of California, Davis, 1999; PharmD, University of California, San Francisco, 2007.

Ngoc M. Nguyen, Adjunct Professor, 2008, PharmD, University of Southern California, 2002.

Petrus Nguyen-Tu, Adjunct Professor, 2022, BS Biology, University of California, Riverside, 2016, PharmD Pharmacy, University of the Pacific, 2020.

Stacey C. Nguyen, Adjunct Professor, 2008, PharmD, San Diego, University of California at San Francisco, 2001.

Susan Nguyen, Adjunct Professor, 2018

Tammie Nguyen, Adjunct Professor, 2016, B.S., University of the Pacific, 1999; PharmD, University of the Pacific, 2002

Tan Dinh Nguyen, Adjunct Professor, 1995, BA, San Francisco State University, 1980; BS, 1980; PharmD, University of California, San Francisco, 1985.

Thanh Nguyen, Adjunct Professor, 2014, BA, San Jose State University, 2004; PharmD, University of Southern Nevada, College of Pharmacy, 2008.

Thanh (Nina) H. Nguyen, Adjunct Professor, 2008, PharmD, San Diego, University of Southern California 1998.

Thi T. Nguyen, Adjunct Professor, 2008, PharmD, University of California, San Francisco, School of Pharmacy, 2004.

Tien Nguyen, Adjunct Professor, 2014, BA, UC Berkeley, 2000; PharmD, University of California, San Diego, School of Pharmacy, 2006.

Ty B. Nguyen, Adjunct Professor, 2008, PharmD University of Washington, 2000.

Yen Phoung Nguyen, Adjunct Professor, 2012, PharmD, Nebraska Medical Center, 2004.

Paul N. Nickel, Adjunct Professor, 1997, AA, Santa Monica City College, 1972; PharmD, University of Southern California, 1979.

Robert Nietupski, Adjunct Professor, 2018, PharmD, Philadelphia College of Pharmacy, 2013.

Kris Naoto Nishimura, Adjunct Professor, 2015, A.S., Pharmacy Technology, Foothill College, 2007; B.S., Molecular, Cellular Developmental Biology, University of California, Santa Cruz, 2007; Pharm.D., Pharmacy, University of California, San Francisco, 2011.

May Wong Nishioka, Adjunct Professor, 2015, B.S., Molecular Toxicology, University of California, Berkeley, 2008; Pharm.D., Pharmacy, University of California, San Francisco, 2012.

Michael Nitake, Adjunct Professor, 2019, PharmD Pharmacy, University of California, San Francisco, 1977, MBA, California State University Dominguez Hills, 1988.

Joelle M. Nitta, Adjunct Professor, 2000, PharmD, University of Southern California, 1994.

Hyeryeon Noh, Adjunct Professor, 2015, B.S., Pharmacy, Massachusetts College of Pharmacy and Health Science, 1994; Pharm.D., , Massachusetts College of Pharmacy and Health Science, 2010.

Daniel H. Nolt, Adjunct Professor, 2013, AA, Fresno City College, 1995; BS, University of California, Davis, 1997; PharmD, University of California, San Francisco, 2001.

Jin-Hee Nomura, Adjunct Professor, 2001, PharmD, University of Southern California, 1984.

Amanda Lynn Northouse, Adjunct Professor, 2015, Pharm.D., Pharmacy, Campbell University, 1999.

Michael Thomas Nowicki, Adjunct Professor, 2016, B.S., University of Connecticut, 2006; PharmD, University of Connecticut, 2008

Michael Nunes, Adjunct Professor, 2002, BS, University of California, Santa Barbara, 1999, PharmD, University of the Pacific, 2002.

Janakiram Nyshadham, Adjunct Professor, 2003, BPharm, Birla Institute of Technology, 1985; MS St. Johns University, 1991.

Tamara Ogg, Adjunct Professor, 2021, BS Pharmacy, University of Washington, 1988.

Jessica Ogihara, Adjunct Professor, 2022, BS Food Science/Human Nutrition, University of Hawaii, 2013, PharmD Pharmacy, University of the Pacific, 2021.

Lara Michele Ogle, Adjunct Professor, 2016, PharmD, University of Missouri, Kansas City, 2013; MBA, University of Missouri, Kansas City, 2013

Elise Oh, Adjunct Professor, 2021, BAS Economics & Biology, Washington University in St. Louis, 2016, PharmD Pharmacy, University of California, San Francisco, 2021.

Kevin Y. Ohara, Adjunct Professor, 2011, PharmD, University of Southern California.

JTracey A. Okabe-Yamamura, Adjunct Professor, 1991, PharmD, University of California, San Francisco, 1984.

Charles Olver, Adjunct Professor, 2018, B.S., Biological Sciences , University of California, Davis, 1983, PharmD, University of California, School of Pharmacy, 1987.

Stephen M. O'Meara, Adjunct Professor, 1998, BS, University of San Francisco, 1970; PharmD, University of California San Francisco, 1975.

Joann O. Ong, Adjunct Professor, 2008, PharmD University of the Pacific, 2002.

Gregory Ono, Adjunct Professor, 2003, PharmD, University of the Pacific, 1994.

Thomas Ortiz, Adjunct Professor, 2022, BS Minor in Psychology, California Polytechnic State University, 1995, MS Pharmacy and Pharmaceutical Sciences, University of Montana, 1998, PharmD Pharmacy, University of California, San Francisco, 2002.

Doug Ota, Adjunct Professor, 2001, PharmD, University of the Pacific, 1995.

Douglas Ota, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 1981.

Babatunde A. Otulana, Adjunct Professor, 2002, MD, University of Ibadan, Nigeria, 1981.

Robert E. Pachorek, Adjunct Professor, 1996, PharmD, University of Southern California, 1977.

Danilo Padilla, Adjunct Professor, 2019, BA Biology, University of the Pacific, 1979, BS Pharmacy, University of the Pacific, 1982.

John Pak, Adjunct Professor, 2018, PharmD, University of Southern California, 1991.

Vinay Ramesh Panchal, Adjunct Professor, 2015, B.S., Pharmacological Chemistry, University of California, San Diego, 2008; Pharm.D., Pharmacy, University of the Pacific, 2012.

Jagdish Parasrampur, Adjunct Professor, 1999, BS Pharm, University of Mysore, Inaipal, India, 1981; MS Pharm, Nagpur University, Nagpur, India, 1983; DBM, RP Institute of Management, Bombay, India, 1984; PhD, University of Houston, 1989.

Deborah Pardo, Adjunct Professor, 2019, BA Neuroscience, Vanderbilt University, 2011, PharmD Pharmacy, University of the Pacific, 2014.

Elizabeth Park, Adjunct Professor, 2023, BS Ecology and Evolutionary Biology, University of California, Los Angeles, 2008, PharmD Pharmacy, Western University of Health Sciences, School of Pharmacy, 2017.

Helen K. Park, Adjunct Professor, 2008, PharmD, University of the Pacific, 1999.

Anish Kumar Patel, Adjunct Professor, 2021, BS Biochemistry, San Francisco State University, 2016, PharmD Pharmacy, University of the Pacific, 2019.

Anjana Patel, Adjunct Professor, 2001, PharmD, University of the Pacific.

Annie S. Patel, Adjunct Professor, 2011, PharmD, University of the Pacific.

Anup Patel, Adjunct Professor, 2021, BS Biology, University of California, Irvine, 2011, PharmD Pharmacy, University of the Pacific, 2014.

Nikita G. Patel, Adjunct Professor, 2017, PharmD, University of Georgia, 2007.

Pratima V. Patel, Adjunct Professor, 2009, PharmD, University of the Pacific, 2002.

Priti A. Patel, Adjunct Professor, 2007, AA, West Hills College, 1998; PharmD, University of California, San Francisco, 2004.

Priya Patel, Adjunct Professor, 2000, PharmD, University of the Pacific, 1999.

Sonal Patel, Adjunct Professor, 2013, PharmD, University of Wyoming, 2002.

Umang M. Patel, Adjunct Professor, 2015, B.S., Biological Sciences , University of California, Davis, 2009; Pharm.D., Pharmacy, University of the Pacific, 2012.

Utsav Patel, Adjunct Professor, 2018, BA, Applied Sciences, University of the Pacific, 2013, PharmD, University of the Pacific, 2016.

Yana Paulson, Adjunct Professor, 2018, PharmD, University of the Pacific, 1978.

Emily Pearse, Adjunct Professor, 2011, PharmD, Butler University, 2005.

Kristina Lai San Pedro, Adjunct Professor, 2016, PharmD, University of the Pacific, 2005

Mitchell Alan Pelter, Adjunct Professor, 1997, PharmD, University of Southern California, 1982.

Danielle Nicole Pender, Adjunct Faculty, 2017, B.S., Pharmaceutical Sciences, University of North Carolina at Chapel Hill, 2011, PharmD, Pharmacy, University of North Carolina at Chapel Hill, 2012.

Sara Pendleton, Adjunct Professor, BS, Biological Sciences, Anthropology Minor, University of California, Santa Barbara, 2003, PharmD, Pharmacy, University of California, San Francisco, 2007.

Yi-Chih Peng, Adjunct Professor, 1999, BA, Taipei Medical College, 1990; PharmD, University of the Pacific, 1996.

Pat Person, Adjunct Professor, 2012, BS Pharmacy, Oregon State University, 1983.

Teresa A. Petrilla, Adjunct Professor, 2005, BA, University of San Diego, 1989; PharmD, University of California, San Francisco, 1993.

Christine Pham, Adjunct Professor, 2018, BA, Chemistry, San Jose State University, 2007, PharmD, Pacific University Oregon, 2013.

Felix Marvin Pham, Adjunct Professor, 2017, B.S., Biochemistry, University of California, Los Angeles, 2005, PharmD, University of California, San Francisco, 2010.

Hai Hoang Pham, Adjunct Professor , 2010 , PharmD, Creighton University, 2001.

Hanh H. Pham, Adjunct Professor, 2010, PharmD, University of Houston, 1996.

Kevin Pham, Adjunct Professor, 2021, Bachelors of Arts and Applied Sciences, Thomas J. Long School of Pharmacy, 2020, PharmD Pharmacy, Thomas J. Long School of Pharmacy, 2020.

Khanh Pham, Adjunct Professor, 2018, B.S., Chemistry, Santa Clara University, 2001, PharmD, University of California, San Francisco, 2006.

Quynh Tu Pham, Adjunct Professor, 2011 , PharmD, University of California, San Diego, 2009.

Tracy Pham, Adjunct Professor, 2021, BS Biochemistry , University of California, Davis, 2005, PharmD Pharmacy, University of Southern Nevada, 2008.

Yen Ngoc Pham, Adjunct Professor, 2012, BS, University of the Pacific, 2003; PharmD, University of the Pacific, 2006.

Brian Phan, Adjunct Professor, 2021, BS Pharmacological Chemistry , University of California, San Diego, 2013, PharmD, Pharmacy, University of Southern California, 2017.

Chau Tranh Phan, Adjunct Professor, 2012, BS, University of California, Davis, 2001; MS, University of California, Davis, 2005; PharmD, University of the Pacific, 2009.

Marie Phan, Adjunct Professor, 2018, B.S., Biological Sciences, University of California, Irvine, 2009, PharmD, University of Southern California, 2014.

Minh Duc Phan, Adjunct Professor, PharmD, Pharmacy, University of the Pacific, 2007.

Quyen Do Phan, Adjunct Professor, 2013, BS, California State University, Fullerton, CA, 2005; PharmD, Western University, Pomona, CA, 2009.

Tran N. Phan, Adjunct Professor, 2013, PharmD, University of Southern California, School of Pharmacy, 2003.

Richard L. Pigao, Adjunct Professor, 2013, BA, University of Hawaii-Manoa, 2007; PharmD, University of the Pacific, 2011.

Gillian Hall Pineda, Adjunct Professor, 2012, BS, University of California, Irvine, 2000; PharmD, University of Southern California, 2007.

Samuel Pitak, Adjunct Professor, 2014, BS, University of California, San Diego, 2006; PharmD, University of California, San Francisco, 2012.

Kathleen Pivato, Adjunct Professor, 2020, BS Pharmacy, University of the Pacific, 1975.

Brian K. Plowman, Adjunct Professor, 1996, PharmD, University of the Pacific, 1991.

Yvonne Plowman, Adjunct Professor, 2001, PharmD, University of the Pacific, 1991.

Laura Polonsky, Adjunct Professor, 2016, PharmD, University of the Pacific, 1993

Jennifer Kay Polzin, Adjunct Professor , 2011 , PharmD, University of Southern California.

Patricia L. Poole, Adjunct Professor, 2009, PharmD, University of the Pacific, 1988.

Alaina Poon, Adjunct Professor, 2000, BA University of California, Berkeley, 1987, PharmD, University of California, San Francisco, 1992.

Indiran Prather, Adjunct Professor, 2006, BPharm, University of Durban-Westville, 1976, MPharm, University of the Western Cape, 1990; PharmD, University of the Western Cape, 1996.

Karyn Wu Preston, Adjunct Professor, 2013, BS, University of California, Irvine, 1995, PharmD, University of California, San Francisco, 2000.

John G. Prichard, Adjunct Professor, 2006, MD, University of California, Irvine, 1978.

Thuy N. Purdy, Adjunct Professor, 2017, B.S., Biochemistry, University of California, Los Angeles, 2003, PharmD, Western University of Health Sciences, 2008.

Christina Qi, Adjunct Professor, 2013, BA, University of California, Berkeley, 2004, PharmD, University of Southern California, 2010.

Chunsheng Qiao, Adjunct Professor, 2009, PhD, University of Louis Pasteur, France, 1989.

Jason Quach, Adjunct Professor, 2019, BS Biology, University of the Pacific, 2009, PharmD Pharmacy, Midwestern University College of Pharmacy - Glendale, 2012.

Stephanie Quach, Adjunct Professor, 2018, B.S., Biochemistry, University of California, Davis, 2010, PharmD, LECOM Bradenton School Of Pharmacy, 2015.

Vivian Quach, Adjunct Professor, 2021, BS Cellular Biology, California State University, Fullerton, 2010, PharmD Pharmacy, University of New England, College of Pharmacy, 2015.

Danyi Quan, Adjunct Professor, 2004, BS, China Pharmaceutical University, 1982, PhD, Hoshi University Tokyo, 1991.

Deanna Quan, Adjunct Professor, 2018, BA, East Asian Language and Culture, University of Southern California, 2012, B.A., Biological Sciences, University of Southern California, 2012, PharmD, University of Southern California, 2016.

Rajinder Kaur Rai, Adjunct Professor, 2021, PharmD Pharmacy , University of the Pacific , 1996.

Justin T. Rainwater, Adjunct Professor, 2020, BS Neurobiology, Physiology, and Behavior, University of California, Davis, 2011, PharmD Pharmacy, University of the Pacific, 2015.

Stacey L. Raff, Adjunct Professor, 1998, PharmD, University of the Pacific, 1996.

Junaid Ramsingh, Adjunct Professor, PharmD, Pharmacy, University of the Western Cape, South Africa, 2001.

Thraya Faye Rashid, Adjunct Professor, 2017, B.S., Biology, University of California, Irvine, 2008, PharmD, University of Southern California, 2013.

Christopher Andrew Ray, Adjunct Professor, 2013, BA, University of California, Santa Barbara, 1991; BS, Long Island University Brooklyn, NY, 1994.

Ryan Justin Raynes, Adjunct Professor, BS Pharmacy Major in Clinical Pharmacy, University of Santo Tomas (Manila, Philippines), 2013.

Bruce Read, Adjunct Professor, 2003, PharmD, University of Southern California, 1980.

Jasmine Reber, Adjunct Professor, 2022, BA Law & Society, Minor in Asian American Studies, University of California Santa Barbara, 2004, MPH Public Health, Touro University, California, 2016, PharmD Pharmacy, Touro University, California, 2016.

Sanjeev Redkar, Adjunct Professor, 2003, BS, Indian Institute of Technology, 1989; MS, 1991; PhD, University of Colorado, 1994.

Melissa Reger, Adjunct Professor, 2014, BA, Miami University, Oxford, Ohio, 2004; BS, Miami University, Oxford, Ohio, 2004; PharmD, The Ohio State University, Columbus, Ohio, 2008.

Lauren Reis, Adjunct Professor, 2021, Bachelor Pharmacy Studies, Northeastern University, 2016, PharmD Pharmacy, Northeastern University, 2017.

Joseph P. Reo, Adjunct Professor, Adjunct Professor, Ph.D., Temple University School of Pharmacy, PA, 1998; M.S., Rutgers University, 1982; B.S., Rutgers University, 1979.

Lynette Rey, Adjunct Professor, 1999, BA, University of California, Berkeley, 1981; PharmD, University of California, San Francisco, 1986.

Jay P. Rhi, Adjunct Professor, 2011, PharmD, University of Southern California, 1982.

Yasir Riaz, Adjunct Professor, 2008, PharmD, University of the Pacific, 2000.

Michael C. Rice, Adjunct Professor, 1998, PharmD, University of the Pacific, 1995.

Trish A. Rick, Adjunct Professor, 2009, PharmD, University of the Pacific, 1987.

Andrea Cathleen Rieland, Adjunct Professor, 2013, BS, University of the Pacific, 2007; PharmD, University of the Pacific, 2010.

Dan Ringhoffer, Adjunct Professor, 2001, BS, St. Johns University, 1982; BS Pharm, University of Minnesota, 1985.

Nicole Marie Rivera, Adjunct Professor, 2013, BS, California State University, Hayward, 2005; PharmD, University of California, San Francisco, 2009.

Rhea Mae Bautista Rivera, Adjunct Professor, 2016, PharmD, University of the Pacific, 2009; MBA, University of the Pacific, 2009

Kelly Robertson, Adjunct Professor, 1995, PharmD, University of the Pacific, 1992.

Carlos Rodriguez, Adjunct Professor, 2009, PhD, University of Michigan, 1991.

Lucy Inwon Roh, Adjunct Professor, 2012, BS , Hyosung Women's University, 1986; PharmD, University of Florida, 2002.

Gale L. Romanowski, Adjunct Professor, 2009, PharmD, University of Michigan, 1986.

John Joseph Rose, Adjunct Professor, 2013, PharmD, University of California, San Francisco, 2011.

Gina M. Rosito, Adjunct Professor, 2009, PharmD, University of Washington.

Alexis Roy, Adjunct Professor, 2012, PharmD, University of Southern California, 1997.

Christine B. Rualo, Adjunct Professor, 2015, B.S., Molecular Biology, minors in Philosophy and Psychology , University of California, San Diego, 2000; Pharm.D., Pharmacy, University of Southern Nevada, 2008.

Ashley E. Rummel, Adjunct Professor, 2015, B.S., Biochemistry & Molecular Biology, University of California, Davis, 2008; Pharm.D., Pharmacy, University of the Pacific, 2012.

John R. Rusillo, Adjunct Professor, 2006, BS, University of Rhode Island, 1974.

Russell A. Ryono, Adjunct Professor, 1987, PharmD, University of the Pacific, 1983.

Logan H. Saito, Adjunct Professor , 2011 , PharmD, Western University, 2008.

Daniel E. Salas, Adjunct Professor, 2016, PharmD, University of the Pacific, 2013

J. Lance Salazar, Adjunct Professor, 1999, BS, California State University, Fresno, 1995; PharmD, University of the Pacific, 1998.

Lucy Saldana, Adjunct Professor, 2014, PharmD, University of California, San Francisco, 1984.

Emil Samara, Adjunct Professor, 2007, MA, Pharmacy, The Hebrew University Jerusalem, 1984; PhD, The Hebrew University of Jerusalem, 1984.

Shauna Samuel, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of Southern California, 2008.

Merry Sanders, Adjunct Professor, 2019, BA Biochemistry, Occidental College, 2012, PharmD Pharmacy, University of Southern California, 2017.

- Jagpal Sandhu, Adjunct Professor, 2019, BS Biology, California State University, Stanislaus, 2015, PharmD Pharmacy, University of the Pacific, 2018.
- Christopher J. Sando, Adjunct Professor, 2001, BA, University of California, San Diego, 1987; PharmD, University of California San Francisco, 1992.
- Tom Sands, Adjunct Professor, 2003, PharmD, University of California, San Francisco, 1985.
- Vivian Sandy, Adjunct Professor, 2019, BA Psychology, University of California, Berkeley, 2005, PharmD Pharmacy, University of Southern California, 2015.
- Avneet Jaur Sanghera, Adjunct Professor, 2009, PharmD, University of the Pacific, 2004. Pharm.D.
- Dandapantula Sarma, Adjunct Professor, 2003, BPharm, Kakatiya University, 1986; PhD, University of Louisiana at Monroe, 1997.
- Satoshi Sasaki, Adjunct Professor, PharmD, Pharmacy, University of the Pacific, 1987.
- Srikonda V. Sastry, Adjunct Professor, 2003, B Pharm, Kakatiya University, 1986; MS, Kakatiya University, 1990; PhD, University of Louisiana, 1997.
- Josephine Sasu-Tenkoramaa, Adjunct Professor, 2019, PharmD Pharmacy, Rutgers University, 2012.
- Richard Saylor, Adjunct Professor, 2018, B.S., Pharmacy, University of Arizona, 1977, RPh.
- Sara J. Schmidt, Adjunct Professor, 1991, BS, University of California, Berkeley, 1981; PharmD, University of the Pacific, 1988.
- Jacob K. Schnaidt, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2008.
- Jacqueline Schnee, Adjunct Professor, 2014, BS, California State University, Fresno, 2008; PharmD, University of the Pacific, 2011.
- Doreen Schneider, Adjunct Professor, 2012, BS, Idaho State, 1984; PharmD, University of the Pacific, 1985.
- Denise Yee Schoenberger, Adjunct Professor, 2016, B.S., University of California, Davis, 1987; PharmD, University of Southern California, 1991.
- Brent Andrew Schoenthal, Adjunct Professor, 2013, BS, California State University, Sacramento, 2000; PharmD, University of the Pacific, 2004.
- Brooke E. Schug, Adjunct Professor, 2012, PharmD, North Dakota, 2007.
- Emily Elizabeth Schulz, Adjunct Professor, 2013, BS, University of the Pacific, 2008; PharmD, University of the Pacific, 2011.
- Stefanie Schwab, Adjunct Professor, 2023, BS Chemistry, Saint Mary's College, 2013, PharmD Pharmacy, University of Colorado, 2021.
- Peter C. Sellers, Adjunct Professor, 2015, BS, Psychobiology, University of California, Los Angeles, 2000; Pharm.D., Pharmacy, University of California, San Francisco, 2004.
- Elika Semnanian, Adjunct Professor, 2019, BS Botany, Alzahra University, 2007, PharmD Pharmacy, University of the Pacific, 2013.
- Eric J. Set, Adjunct Professor, 2013, BA, University of California, Berkeley, 1997; PharmD, University of the Pacific, 2001.
- Gina Shah, Adjunct Professor, 2019, BS Pharmacy Studies, University of Connecticut, 2013, PharmD Pharmacy, University of Connecticut, 2015.
- Kevork Shahinian, Adjunct Professor, 2018, PharmD, University of Southern California, 2014.
- Shaheen S. Shaikh, Adjunct Professor, 2006, Pharm.D., University of California, San Francisco, 2003.
- Susan Shakib, Adjunct Professor, 2016, B.S., University of California, Los Angeles, 2008; PharmD, University of Southern California, 2012.
- Yasin M. Shan, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2012.
- Bach-Nga N. Shenoy, Adjunct Professor, 2013, BA, University of California, San Diego, 2000; PharmD, University of California, San Francisco, 2004.
- Narmada Shenoy, Adjunct Professor, 2001, BS, 1981; MS, 1983; PhD, University of Bombay, 1990.
- Tanya Rose Shepard, Adjunct Professor, 2013, BS, University of California, Berkeley, 2005; PharmD, University of the Pacific, 2009.
- Scott K. Shimamoto, Adjunct Professor, 2015, Pharm.D., Pharmacy Practice, University of the Pacific, 1988.
- Stacy E. Shimata, Adjunct Professor, 2016, PharmD, University of the Pacific, 2009.
- Amy Shin, Adjunct Professor, 2014, BA, University of California, Berkeley, 1997; PharmD, University of Southern California, 2001.
- Sarah Shin, Adjunct Professor, 2018, BA, Applied Science, 2016, PharmD, University of the Pacific, 2016.
- Jeffrey Kyung Shinoda, Adjunct Professor, 2012, PharmD, University of the Pacific, 1988.
- Michael Ken Shioji, Adjunct Professor, 2016, PharmD, University of the Pacific, 2013.
- Sheela Shneezai, Adjunct Professor, 2014, BS, University of California, Los Angeles, 2005; PharmD, University of Southern California, 2009.
- Daniel T. Sifuentes, Adjunct Professor, 2012, AA, Fresno City College, 1985; BS, California State University, Fresno, 1989; PharmD, University of California, San Francisco, School of Pharmacy.
- Jennifer Marie Siilata, Adjunct Professor, 2012, PharmD, University of the Pacific, 2006.
- Harminder Sikand, Adjunct Professor, 1998, BS, University of California, Davis, 1985; PharmD, University of California, San Francisco, 1990.
- Sherrie Jane Silva, Adjunct Professor, 2015, B.S., Pharmacy, University of the Pacific, 1977.
- Andrew Simental, Jr., Adjunct Professor, 1990, BS, California State University, San Bernardino, 1980; PharmD, University of the Pacific, 1983.
- Narinder Singh, Adjunct Professor, 2012, Master of Pharmacy, LM College of Pharmacy, India, 1990; PharmD, Creighton University, 1999; MBA, University of Southern California.
- Parminder "Bobby" Singh, Adjunct Professor, 2006, BS Pharm, Punjab University, 1985; MS Pharm, Punjab University, 1987; PhD, University of Queensland, 1992.

Sarika Singh, Adjunct Professor, 2019, BS Physiology, University of California, Davis, 1997, PharmD Pharmacy, University of the Pacific, 2001.

Michelle Singson, Adjunct Professor, 2018, PharmD, University of the Pacific, 2016.

Deepak Sisodiya , Adjunct Professor, 2011 , PharmD, University of Michigan, 2002.

Dana Siu, Adjunct Professor, 2012, BS, University of California, Davis, 2001; PharmD, University of California, San Francisco, 2005.

Karla Killgore Smith, Adjunct Professor, 2007, BA, University of San Diego, 1999; PharmD, University of California, San Francisco, 2003.

Sydney Smith, Adjunct Professor, 2023, BS Biology, Grand Canyon University, 2014, PharmD Pharmacy, Midwestern University College of Pharmacy, 2017.

Julie Marie Snyder, Adjunct Professor, 2016, B.S., University of California, San Diego, 2002; PharmD, University of Illinois at Chicago, 2006

Brian So, Adjunct Professor, 2014, BS, University of California, Davis, 2001; PharmD, University of the Pacific, 2004.

Mahkameh S. Soehn , Adjunct Professor, 2011 , PharmD, University of Southern California, 1987.

Kali S. Sommer, Adjunct Professor, 2010, PharmD, University of Texas College of Pharmacy, Austin, TX 2001.

Mi Chi Song, Adjunct Professor, 2011, BS, The University of Arizona, 2004 PharmD, University of Arizona, 2009.

Judy Mui Sou, Adjunct Professor, 2015, BA, Integrative Biology, University of California, Berkeley, 2004; Pharm.D., Pharmacy, University of the Pacific, 2008.

Cynthia Spann, Adjunct Professor, 1997, BA, University of California, San Diego, 1989; PharmD, University of California, San Francisco, 1995.

Steve Spinetti, Adjunct Professor, 2001, BS, University of California, Davis, 1977; PharmD, University of Southern California, 1982.

Michael S. Sprague, Adjunct Professor, 2004, PharmD, University of the Pacific, 1997.

Nicole Sprague, Adjunct Professor, 2012, PharmD, University of the Pacific, 1997.

Kelly Kay Spreen, Adjunct Professor, 2016, B.S., University of California, Davis, 2009; PharmD, Creighton University, 2013.

Joyce Jaojoco Sprinkles, Adjunct Professor, 2015, Pharm.D., Pharmacy, Massachusetts College of Pharmacy and Health Science, 2005.

Inderpal Singh Srai, Adjunct Professor, 2021, BS Biochemistry/Molecular Biology, University of California, Davis, 2006, PharmD Pharmacy, Bernard J. Dunn School of Pharmacy, 2011.

Richard R. Stack, Adjunct Professor, 2001, BA, State University of New York, Buffalo, 1975; MD, University of Southern California, 1979.

Oby Stan-Ugbene, Adjunct Professor, 2013, PharmD, University of the Pacific, 2005; MBA, University of Phoenix, 2008.

John Stapf, Adjunct Professor, 2020, PharmD Pharmacy, University of Pittsburgh, 2014.

Martha G. Stassinios, Adjunct Professor, 2002, BA, California State University, Los Angeles, 1969; PharmD, University of California, San Francisco, 1979.

Justin Sterling, Adjunct Professor, 2020, PharmD Pharmacy, Nova Southeastern University, 2017.

Robert Strickley, Adjunct Professor, 2001, BS, University of California, Berkeley; PhD, University of Utah, 1995.

Charles C. Stuart, Adjunct Professor, 1998, BS, RPh Pharmacy University of Arizona, 1970.

Maria K. Stubbs, Adjunct Professor, 2008, PharmD, Philadelphia College of Pharmacy, 1990.

Jeffrey Stults, Adjunct Professor, 2014, BS, Chemistry, Oregon State University; PhD, University of Wisconsin-Madison, WI.

Kurtis B. Stutsman, Adjunct Professor, 2016, B.S., University of California, San Diego, 2010; B.S., University of California, San Diego, 2010; PharmD, University of the Pacific, 2013

Vince Sue, Adjunct Professor, 2003, PharmD, University of California, San Francisco, 1965.

Andrew Sugano, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 2014.

Julie Suko, Adjunct Professor, 2014, BS, UC Berkeley, 1984; PharmD, University of California, San Francisco, 1988.

Caroline K. Sul, Adjunct Professor, 2008, PharmD, University of Michigan, 2001.

Yu-Bik Kitty Sum, Adjunct Professor, 2009, PharmD, University of the Pacific, 2001.

Susan Sung, Adjunct Professor, 1999, PharmD, University of California, San Francisco, 1997.

Jennifer Briggs Swanson, Adjunct Professor, 2021, BA Biological Sciences, University of California, Irvine, 2013, PharmD Pharmacy, Western University of Health Sciences, 2017.

Stephanie M. Sweezee, Adjunct Professor, 2006, PharmD, University of the Pacific, 2003.

Holly Sybert, Adjunct Professor, 2020, BS Pharmacy, Lipscomb University, 2012, PharmD Pharmacy, Lipscomb University, 2015.

Jonathan Louis Szkotak, Adjunct Professor, 2012, BS, University of the Pacific, 2007; PharmD, University of New Mexico, 2011.

Christine Ta, Adjunct Professor, 2014, BS, University of California, San Diego, 2006; PharmD, University of California, San Francisco, 2010.

Jamie Ta, Adjunct Professor, 2012, PharmD, Massachusetts College of Pharmacy & Health Science, 2002.

Peter Ta, Adjunct Professor, 2020, BS Applied Mathematics, University of California, Los Angeles, 1985, PharmD Pharmacy, University of the Pacific, 1993, BS Chemical Engineering, California State University, Long Beach, 2016.

Sylvia Ta, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 1999.

Jackie Tafoya-Espinoza, Adjunct Professor, 1998, PharmD, University of the Pacific, 1997.

Scott Hideyuki Takahashi, Adjunct Professor, 2014, PharmD, University of Southern California, 2006.

Susan Takeda, Adjunct Professor, 2003, PharmD, University of the Pacific, 1986.

Curtis K. Takemoto, Adjunct Professor, 1986, Adjunct Professor, AA, Fresno City College, 1972; BS, California State University, Fresno, 1976; PharmD, University of California, San Francisco, 1984.

Mehek Talwar, Adjunct Professor, 2022, BS Pharmaceutical Sciences, The Ohio State University, 2014, PharmD Pharmacy, Touro University, 2018.

Annie Tam, Adjunct Professor, 2019, BS Biological Sciences, University of the Pacific, 2015, PharmD Pharmacy, University of the Pacific, 2018.

Darryl Tam, Adjunct Professor, 2003, PharmD, University of the Pacific, 1999.

Vijay K. Tammara, Adjunct Professor, 2002, BS, Kakatiya University, India, 1982; MS, Nagpur University, India, 1985; PhD, Northeast Louisiana University, 1993.

Mikmala Tan, Adjunct Professor, 2018, B.S., Biochemistry University of the Pacific, 2008, PharmD, University of the Pacific, 2011.

Thuy D. Tang, Adjunct Professor, 2016, PharmD, University of Pittsburgh, 2000.

Shelley Tang-Drewniak, Adjunct Professor, 2016, B.S., University of California, Berkeley, 2003; PharmD, Massachusetts College of Pharmacy and Health Sciences, 2009

Kevin M. Tapia, Adjunct Professor, 2012, BS, University of California, Davis, 2005; PharmD, University of the Pacific, 2008.

Albert Tasmin, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2015.

Panit Taylor, Adjunct Professor, 2012, BS, University of California, San Diego 2000; BS, University of California, San Diego 2000; PharmD, Western University of Health Sciences, 2004.

David Teng, Adjunct Professor, 2009, PharmD, University of California at San Francisco, 1992.

Hans Teuscher, Adjunct Professor, 2020, PharmD Pharmacy, Loma Linda University, 2016.

Anthony Thai, Adjunct Professor, 2017, BA, Integrative Biology, University of California, Berkeley, 2006, PharmD, University of Hawaii, Hilo, 2012.

Lee Thai, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2014.

Tam Thanh Thai, Adjunct Professor, 2015, B.S., Biology, University of the Pacific, 2007; Pharm.D., Pharmacy, University of the Pacific, 2010.

Diana Thamrin, Adjunct Professor, 2017, PharmD, University of the Pacific, 2005.

Tou Thao, Adjunct Professor, 2014, PharmD, University of the Pacific, 2006.

Gina Thompson, Adjunct Professor, 2023, PharmD Pharmacy, University of Cincinnati, 2013, PharmD Pharmacy, University of Cincinnati College of Pharmacy, 2012.

Nancy Thompson, Adjunct Professor, 2023, BA Pharmacology, University of California, Santa Barbara, 1986, PharmD Pharmacy, University of the Pacific, 1992.

Kim Thorn, Adjunct Professor, 1994, BS, University of California, Los Angeles, 1979; PharmD, University of California, San Francisco, 1983.

Davalyn S. Tidwell, Adjunct Professor, 2012, BA, University of Texas, Arlington, 2003; PharmD, University of Southern California, 2008.

Christine W. Tieu, Adjunct Professor, 2017, B.S., University of California, Davis, 1999; PharmD, University of California, San Francisco, 2010.

Yee-Way Ting, Adjunct Professor, 2010, MS, PharmD, 2010, University of Kansas, 1988.

Kristin To, Adjunct Professor, 2002, PharmD, University of California, San Francisco, 1994.

Patti Y. Togioka, Adjunct Professor, 2015, B.S., Biology, University of California, Davis, 1994; Pharm.D., Pharmacy, University of California, San Francisco, 2004.

Kristen Taylor Tokunaga, Adjunct Professor, 2016, B.S., University of California, Los Angeles, 2012; PharmD, University of the Pacific, 2015

Jeffrey Tom, Adjunct Professor, 2012, PharmD, University of the Pacific, 2006.

Sean David Tomlinson, Adjunct Professor, 2011, BS, California Polytechnic University, San Luis Obispo, 2000; PharmD, University of the Pacific, 2005.

Thanhlong Ton, Adjunct Professor, 2021, PharmD Pharmacy, Oregon State University, 2003.

Lisa M. Tong, Adjunct Professor, 2010, PharmD, University of California San Francisco, 1997.

Mary Tong, Adjunct Professor, 2000, BS, San Francisco State University, 1990; PharmD, University of California San Francisco, 1994.

Kevin L. Toy, Adjunct Professor, 2013, San Joaquin Delta College, 1976; University of the Pacific, 1978; BS, University of the Pacific, 1981.

Shunsuke Toyoda, Adjunct Professor, 2010, PharmD, University of California San Francisco, 2008.

Yousef Trabouly, Adjunct Professor, 2022, BPharm Pharmacy, University of Alexandria, Egypt, 2009, PharmD Pharmacy, University of the Pacific, 2013.

Aaron Nguyen Tran, Adjunct Professor, 2016, PharmD, University of the Pacific, 2014.

Allen Tran, Adjunct Professor, 2022, BS Pharmaceutical Science, University of California, Irvine, 2015, PharmD Pharmacy, University of California, San Francisco, 2019.

Christie Tran, Adjunct Professor, 2014, BA, Columbia University, 2002; PharmD, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences, 2008.

Davis Tran, Adjunct Professor, 2020, PharmD Pharmacy, University of the Pacific, 2010.

Kevin Tran, Adjunct Professor, 2022, BS Biochemistry & Molecular Biology, University of California, Davis, 2014, PharmD Pharmacy, University of California, San Francisco, 2018.

Linda Tran, Adjunct Professor, 2014, BS, Business Admin, California State Polytechnic University, Pomona, 2005; PharmD, Western University of Health Sciences, 2011.

Rosanna Thanh Tran, Adjunct Professor, 2016, B.S., Chico State University, 2003; PharmD, Washington State University, 2013

Thanh (Tanya) K. Tran, Adjunct Professor, 2008, PharmD, USC School of Pharmacy, 2001.

Thu Tran, Adjunct Professor, 2014, BS, University of California, Los Angeles, 2007; PharmD, University of Southern California, 2011.

Tina H. Tran, Adjunct Professor, 2016, B.S., University of the Pacific, 2009; PharmD, University of the Pacific, 2013

Tu Tran, Adjunct Professor, 2020, BS Biological Science, University of California, Irvine, 2009, PharmD Pharmacy, Midwestern University # Glendale, 2012.

Vy T. Tran, Adjunct Professor, 2017, B.S., San Jose State University, 2002; PharmD, University of California, San Francisco, 2009.

Phuong M. Trieu, Adjunct Professor, 2011, BS, University of California, Davis, 2002; PharmD, University of Southern California, 2007.

Henry H. Troung, Adjunct Professor, 2010, PharmD, MHA, Massachusetts College of Pharmacy & Health Sciences, 2005.

Camille Bodley Troup, Adjunct Professor, 2009, PhD, University of Minnesota, 1996.

Katie A. Trousil, Adjunct Professor, 2017, BA, University of the Pacific, 2014; PharmD, University of the Pacific, 2014.

Lawrence S. Troxell, Adjunct Professor, 2008, University of California San Diego, 1971.

Rod True, Adjunct Professor, 1995, PharmD, University of Southern California.

Hien Truong, Adjunct Professor, 2020, BS Chemistry, University of San Francisco, 1988, MD Medical Doctor, Temple University School of Medicine, 1992.

Lap Truong, Adjunct Professor, 2019, PharmD Pharmacy, University of Iowa, 2010.

Jennifer Trytten, Adjunct Professor, 2007, BA, California State University, Fresno, 1994; BS, Midwestern University, 1997; PharmD, 1998.

Te-Yun Tsao, Adjunct Professor, 1998, BS, San Francisco State University, 1986; PharmD, University of California, San Francisco, 1994.

Lori A. Tsukiji, Adjunct Professor, 1992, BS, University of California, Davis, 1978; PharmD, University of California, San Francisco, 1989.

Jiasheng Tu, Adjunct Professor, 2009, PhD in Pharmaceutics, China Pharmaceutical University, 1992.

Charles Tuey, Adjunct Professor, 2006, BS, University of California, San Diego, 1995; PharmD, University of Illinois, 2003.

Lohit Tutupalli, Adjunct Professor, 2013, Ph.D., University of the Pacific, 1974.

Bunnaun Bruce Uch, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 1995.

Jasmine Uchi, Adjunct Professor, 2023, PharmD Pharmacy, California Northstate University, 2022.

Lauren Midori Ujihara, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of the Pacific, 2013.

Jennie Ung, Adjunct Professor, 2001, PharmD, University of Southern California, 1997.

Alice H. Ung-Robbins, Adjunct Professor, 2006, BS, Rutgers University, 1993; PharmD, 2001.

Satyam Upadrashta, Adjunct Professor, 2006, BSc, Osmania University, India, 1969; MS, Osmania University, India, 1973; PhD, University of Iowa, 1988.

Charisma Urbiztondo, Adjunct Professor, 2022, BS Biochemistry, University of California, Los Angeles, 2011, PharmD Pharmacy, University of California, San Francisco, 2016.

Floreida Uriarte, Adjunct Professor, 2019, PharmD Pharmacy, University of the Pacific, 2003.

Linh Van, Adjunct Professor, 2014, PharmD, University of California, San Francisco, School of Pharmacy, 2003.

Linh Buu Van, Adjunct Professor, 2009, University of California San Francisco School of Pharmacy, 2003.

Teresa M. Veirs, Adjunct Professor, 2009, PharmD, University of the Pacific, 1992.

Sriram Vemuri, Adjunct Professor, 2003, BS Pharm, Andhra University, 1972; MS, Purdue University, 1975; PhD, University of Rhode Island, 1995.

Jeanne J. Ventura, Adjunct Professor, 2013, BS, University of California, Davis, 2001; PharmD, University of the Pacific, 2008.

Dennis Vermillion, Adjunct Professor, 2012, BA, University of the Pacific, 1982; PharmD, University of Southern California, 1986.

Minnie Virk, Adjunct Professor, 2007, PharmD, University of the Pacific, 2002.

Christine Joy Pascua Vo, Adjunct Professor, 2015, B.S., Biology, University of California, Riverside, 2004; Pharm.D., Pharmacy, Loma Linda University, School of Pharmacy, 2008.

Jayesh Vora, Adjunct Professor, 2007, MS, University of Cincinnati, OH, 1990; PhD, Northeastern University, Boston, 1994.

Ann Vu, Adjunct Professor, 2014, BS, University of California, Los Angeles, 2000; PharmD, Western University of Health Sciences, 2007.

Jenny Vu, Adjunct Professor, 2020, BA Applied Arts and Sciences, University of the Pacific, 2016, PharmD Pharmacy, University of the Pacific, 2016.

Mai P. Vu, Adjunct Professor, 2000, BS, University of California, Davis, 1988; PharmD, University of California, San Francisco, 1997.

Quynh T. Vu, Adjunct Professor, 2013, PharmD, University of Texas at Austin College of Pharmacy, 2006.

Teresa Vu, Adjunct Professor, 2019, BS Biology, Stanford University, 2013, MS Biology, Stanford University, 2013, PharmD Pharmacy, University of California, San Diego, 2017

Tien Thuy Vu, Adjunct Professor, 2013, PharmD, University of California, San Francisco, 1996.

Elizabeth Vuong, Adjunct Professor, 2019, BS Molecular Biology, University of California, Los Angeles, 2009, PharmD Pharmacy, Touro University, 2015.

Henry C. Walker, Adjunct Professor, 2006, BS, University of California, Davis, 1981; BS, Creighton University, 1990.

James Wall, Adjunct Professor, 2018, BA, Applied Sciences, University of the Pacific, 2016, PharmD, University of the Pacific, 2016.

Denise Walsh, Adjunct Professor, PharmD, Pharmacy, University of the Pacific, 1981.

Keith Edward Walsh, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of California, San Francisco, 1982.

Jingyi Wang, Adjunct Professor, 2018, B.S., Biochemistry, University of California, San Diego, 2008, PharmD, University of California, San Francisco, 2012.

Wei Wang, Adjunct Professor, 2003, PharmD, Shandong Medical University, 1982; PhD, University of Southern California, 1992.

Winni Wang, Adjunct Professor, 2016, PharmD, University of Arizona, 2009

Yu-Chang John Wang, Adjunct Professor, 2003, BS, National Taiwan University, 1998; PhD, University of Michigan, 1974.

Lynn Barbara Warner, Adjunct Professor, 2015, Pharm.D., Pharmacy, University of Finlay, 2010.

Jonathan (J.J.) Way, Adjunct Professor, 2023, BS Chemical Engineering, University of California, Los Angeles, 2012, PharmD Pharmacy, Chapman University School of Pharmacy, 2020.

Nicole Webb, Adjunct Professor, 2014, PharmD, University of the Pacific, 2007.

Scott R. Weber, Adjunct Professor, 1990, PharmD, University of the Pacific, 1983.

Alice A. Wen, Adjunct Professor, 2004, PharmD, University of Southern California, 1998.

Jody West, Adjunct Professor, 2012, BS Pharmacy, University of Utah, 1979.

R. David West, Adjunct Professor, 1991, BA, University of California, Santa Barbara, 1980; MA, 1982; PharmD, University of California, San Francisco, 1987.

Cedric St. Clair White, Adjunct Professor, 2022, BA Biochemistry and Sociology, Bowdoin College, 2013, PharmD Pharmacy, University of Connecticut School of Pharmacy, 2020.

Andrew Michael Williams, Adjunct Professor, 2016, B.S., University of Southern California, 2008; Minor, University of Southern California, 2008; PharmD, University of Southern California, 2012.

Giselle H. Willick, Adjunct Professor, 2011, PharmD, University of the Pacific.

Danielle Dixon Willis, Adjunct Professor, 2014, BS, Stanford University, 2003; PharmD, University of the Pacific, 2011.

Linda F. Winstead, Adjunct Professor, 2005, BS, University of Tennessee, 1970; PharmD, 1971.

Merle L. Wisniewski, Adjunct Professor, 2010, PharmD, University of the Pacific, 2000.

Joseph A. Woelfel, Adjunct Faculty, 1970, BS in Pharmacy, University of the Pacific, 1970 MS in Pharmacy, University of the Pacific, 1972 PhD in Clinical Pharmacy, University of the Pacific, 1978

Betty P. Wong, Adjunct Professor, 1997, BS, University of California, Davis, 1992; PharmD, University of the Pacific, 1995.

Bonnie X. Wong, Adjunct Professor, 1993, BS, 1988; PharmD, University of Southern of California 1992.

Cynthia Wong, Adjunct Professor, 2007, BS, University of California, Berkeley, 1997; MS, San Francisco State University, 1999; PharmD, University of the Pacific, 2002.

Darlene Wong, Adjunct Professor, 2003, PharmD, University of the Pacific, 1995.

Duncan Wong, Adjunct Professor, 2019, Pre-Med, BSC, PharmD Pharmacy, Massachusetts College of Pharmacy, 1993.

Helen Wong, Adjunct Professor, 2019, BS Biology, University of California, Davis, 2002, PharmD Pharmacy, Western University of Health Sciences, 2008.

Jonathan Calvin Wong, Adjunct Professor, 2016, BA, University of California, Santa Cruz, 2006; PharmD, University of the Pacific, 2009

Karine Wong, Adjunct Professor, 2021, PharmD Pharmacy, University of the Pacific, 1997.

Kenneth H. Wong, Adjunct Professor, 1996, PharmD, University of the Pacific, 1995.

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.

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.

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, Pharmaceuticals, 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 (<http://catalog.pacific.edu/stocktongeneral/generaleducationprogram/>)

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	Prospectives 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, 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. (DVSU, GEDI)

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 Licence, 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.****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.

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: PRAC 118.

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 (VANCHCS) 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. (DVSy, 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.**