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About HPAO

The Health Professions Advising Office (HPAO) at California State University, Long Beach is committed to helping students develop an understanding of health professions and foster their intellectual, personal and humanistic development as they prepare for careers in health professions. In addition, the HPAO is devoted to enhancing opportunities for underrepresented, first-generation college students to become leaders in a complex healthcare system, working to increase health and wellness within their communities.

Sessions will be available for online viewing shortly after the conference.

[https://csulb.edu/colleges/cnsm/sas/hpao/counselors.html](https://csulb.edu/colleges/cnsm/sas/hpao/counselors.html)

Mini Fair Participants

Cal State Long Beach
Azusa Pacific University
Samuel Merritt University
David Geffen School of Medicine at UCLA
Keck Graduate Institute
Marshall B. Ketchum University
Palmer College of Chiropractic
Touro University Nevada
UC Irvine School of Medicine
University of the Pacific
USC Occupational Therapy
Western University

Guiding the Health Professions Student:

A Conference for Community College Counselors

Friday, September 29, 2017

Lunch

Boxed lunch will be available in Sunset B*

*If you are in **Sunset B** for session III please enjoy lunch at 12:20. Then visit the fair by 12:55pm..

*If you are in **Summit or Sunset A** for session III please visit the fair at 12:20, then proceed to Sunset B for lunch by 12:55pm.

Sponsor Thank You:

Bags and drinks provided by

49er Shop
Welcome!

We are so very glad that you have come to Long Beach for this professional development opportunity. Our hope is that you have a wonderful time, learn something new and connect with colleagues!

The objective of this conference is to provide community college counselors with information that will assist them as they provide academic and career guidance for students who plan to enter the health professions. Guest speakers representing various health professions will present the latest updates in trends, admissions, and requirements.

Conference Agenda

7:30-8:10  Registration/Light Breakfast
8:15-8:40  Welcome Remarks (Sunset B)
8:40-9:20  Opening Keynote: Medicine
9:30-10:20  Breakout Session #1
10:30-11:20  Breakout Session #2
11:30-12:20  Breakout Session #3
12:30-1:20  Lunch (Sunset B)
12:30-1:20  Mini Fair (Gallery)
1:30-2:20  Closing Keynote: Nursing (Sunset B)

Keynote Speakers

Welcome: Dr. Curtis Bennett

Curtis D. Bennett is the new dean for the College of Natural Sciences and Mathematics (CNSM). He is tasked spearheading efforts in the areas of science, technology, engineering and math at CSULB.

Medicine: Monica Perkins

What makes someone an ideal candidate for medical school admissions? This session is designed to equip college counselors with tools to guide students on various pathways to medicine.

Nursing: Carly Smyly

What makes an ideal candidate for nursing school admissions? This session is designed to equip college counselors with tools to guide students on various pathways.

Breakout Sessions

Session I: 9:30-10:20 am
Keck Graduate Institute: School of Pharmacy
SUNSET A
USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy
SUNSET B
College of Dental Medicine at Western University of Health Sciences
SUMMIT

Session II: 10:30-11:20 am
Department of Physical Therapy at CSULB
SUNSET A
The School of PA Studies at Marshall B. Ketchum University
SUNSET B
Doctor of Osteopathic Medicine at Touro University Nevada
SUMMIT

Session III: 11:30-12:20 pm
Department of Speech-Language Pathology and Audiology at University of the Pacific
SUNSET A
Palmer College of Chiropractic Medicine
SUNSET B
California School of Podiatric Medicine at Samuel Merritt University
SUMMIT

WiFi

In device WiFi settings, connect to the “beachnet-guest-access” network.
Open a browser and click on the “Self-register” link in the box on the right. This will lead you through the process.
Pathways to Medical School

Monica Ugwu Perkins, M.Ed.
Pronouns: she, her
Interim Director of Diversity, Inclusion, & Outreach
David Geffen School of Medicine at UCLA
Objectives

- Understand what is important to medical school admissions committees.
- Formulate a plan to help students become a successful medical school applicant.
Resources - Advisors

- https://aamc.org/advisors/
Resources - Students

• https://aamc.org/students
Resources & Publications

• Medical School Admissions Requirements (MSAR)
  • https://aamc.org/msar
<table>
<thead>
<tr>
<th>Core Competencies for Entering Medical Students</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interpersonal</strong></td>
</tr>
<tr>
<td>❖ Service Orientation</td>
</tr>
<tr>
<td>❖ Social Skills</td>
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<tr>
<td>❖ Cultural Competence</td>
</tr>
<tr>
<td>❖ Teamwork</td>
</tr>
<tr>
<td>❖ Oral Communication</td>
</tr>
<tr>
<td><strong>Intrapersonal</strong></td>
</tr>
<tr>
<td>❖ Ethical Responsibility to Self and Others</td>
</tr>
<tr>
<td>❖ Reliability and Dependability</td>
</tr>
<tr>
<td>❖ Resilience and Adaptability</td>
</tr>
<tr>
<td>❖ Capacity for Improvement</td>
</tr>
</tbody>
</table>
Core Competencies for Entering Medical Students

**Thinking & Reasoning**
- Critical Thinking
- Quantitative Reasoning
- Scientific Inquiry
- Written Communication

**Science**
- Living Systems
- Human Behavior
What’s Important?

- Research OR Community Service
- Motivation & Testing
- Leadership
- Academic Metrics
Basis of Selection for Medical School at UCLA - Holistic Review

- **Academic preparation**
  - Undergraduate, Postbaccalaureate, Graduate Record
  - MCAT

- **Development of personal attributes**
  - Life Experiences

- **Application process**
  - Secondary
  - Letters of Recommendation

- **Interview**
What’s Important?

- GPA
- MCAT’s
- Extra Curric
- Medical Experience
- Interview
- Research
- Community Service
- Work
- Letters of Recommend
The Ideal Medical Student

- Smart
- Emotional Intelligence
- Resilience
- Humanism
- Caring
- Passion
- Leader

David Geffen
School of Medicine
UCLA
Community College Pathway

DGSOM UCLA Medical School Class of 2021

- 4-year institution: 83%
- Community College Pathway: 17%
Game Plan!

- Find opportunities to volunteer, shadow a physician, etc.
- Explore options for careers in medicine
- Apply to summer enrichment programs*
- Map out coursework
- Learn about the cost & financial aid
UCLA/Drew SHPEP

- National Program Office: AAMC and ADEA
- Since 2006
- Cohort: 80 students
- Six-week residential summer enrichment program.
- Targets educationally and financially disadvantaged frosh and sophomore level students at 2- and 4-year post-secondary institutions.

Curriculum:
- Academic enrichment, learning and communication skills
- Clinical experience
- Health Professions School Admissions Counseling
UCLA PREP

- Since 1982
- Cohort: up to 30 students
- Six-week non-residential summer enrichment program

**Curriculum:**
- MCAT/DAT prep course
- Academic enrichment, learning and communication skills
- Clinical experience
- Inquiry-based learning assignment
- Career Guidance and Personal Development

- Longitudinal support
UNIVERSITY OF THE PACIFIC

Audiology & Speech-Language Pathology
What comes to mind when you hear the terms Audiology or Speech-Language Pathology?
Challenge Question 2
Where do Audiologist and Speech-Language Pathologist work and what do they do?
Who are Audiologists?
Audiologists

Audiology is the science of hearing, balance and related disorders. Audiologists are experts in the nonmedical diagnosis and management of disorders of the auditory and balance systems.

They frequently work with speech-language pathologists, educators, engineers, scientists and allied health professionals and technicians.
Where Do Audiologist Work?

• Health care (73.5%)
  – Hospitals
  – Private and group practices
  – Residential health and long-term care facilities

• Education (15.6%)
  – K-12
  – Colleges and Universities

• Development learning centers/day cares and treatment centers

• Local, state, and federal government agencies
Career Outlook

- 2016 Median pay:
  - $75,980 per year (United States)
  - $96,040 per year (California)
- Number of jobs, 2014:
  - 13,200 (United States)
- Job outlook, 2014-2024:
  - Projected to grow 29%
    - *The average growth rate for all occupations is 7%*
- Annual projected job openings
  - 680 (United States)
- Job security
  - Hearing loss increases as people age, so the aging population is likely to increase demand for audiologists.

Who Are Speech-Language Pathologists?
Speech-Language Pathology

Study and treatment of human communication and its disorders. Speech-Language Pathologist work with the full range of human communication to evaluate, diagnose and treat speech, language and swallowing disorders in individuals of all ages, from infants to the elderly.

Speech-Language Pathologists often work with teachers, physicians, audiologists, psychologists, social workers and rehabilitation counselors.
Where Do Speech-Language Pathologist Work?

- **Education (56%)**
  - Early intervention, preschool, K-12
  - Colleges and Universities

- **Health care (36%)**
  - Hospitals
  - Residential health care facilities
  - Nonresidential health care facilities
  - Private practice

- **Corporate Speech-Language Pathology**
  - Consultant for companies and its customers

- **Local, state, and federal government agencies**
Career Outlook

- 2016 Median pay:
  - $74,680 per year (United States)
  - $89,350 per year (California)

- Number of jobs, 2014:
  - 135,400 (United States)
  - 11,000 (California)

- Job outlook, 2014-2024:
  - Projected to grow 21% (United States)
  - Projected to grow 17% (California)
  - *The average growth rate for all occupations is 7%*

- Annual projected job openings
  - 6,310 (United States)
  - 470 (California)

Admission
Audiology

- Bachelor's Degree in any discipline
  - Preferred science related field
- GPA 3.0 or above
  - 3.5 competitive
- Prerequisite “C” or better
  - Preferred “B” or better
  - Biological Sciences, Physical Sciences, Social/Behavioral Sciences, and Mathematics courses should be taken within 10 years of applying to the program.
- Personal Statement
- GRE/MCAT
  - 50th percentile
- Letter of Recommendation
- Faculty interview
Speech-Language Pathology

• Generally, undergraduate degree can be in any discipline but is most often in CSD
• GPA 3.0 or above
  – 3.5 competitive
• Prerequisite “C” or better
  – Preferred “B” or better
• Personal Statement
• GRE/MCAT
• Letter of Recommendation
• Video recording
• Faculty interview
Above and Beyond
AuD & SLP
Consideration for Admission

• Internships
  – AuD or SLP field
  – Summer, winter or during the school year

• Clubs
  – AuD or SLP, Communication, Student Government, etc

• Volunteer on campuses or community clinics

• Volunteer in your community
General Knowledge

- Critical thinking, problem solving, logical reasoning skills
- Exposure to the scientific method and research experiences
- Exposure to other disciplines and professional/scientific organizations
- Opportunities for interdisciplinary and interprofessional collaborative learning
- Exposure to "evidence-informed decision making" as a lifelong learning journey
- Cultural competence
- Competencies in oral and written communication (e.g., reading, writing, listening, speaking)

* Planning Your Education in Communication Sciences and Disorders
  http://www.asha.org/Students/Planning-Your-Education-in-CSD/#undergraduate
Science Foundations

- Biology
- Human Anatomy and Physiology
- Linguistics
- Math and Statistics
- Neuroscience
- Physics and Acoustics
- Psychology and Cognitive Science
- Exposure to research contributions across fields

* Planning Your Education in Communication Sciences and Disorders
http://www.asha.org/Students/Planning-Your-Education-in-CSD/#undergraduate
Advice for Community College Students

• Explore classes in AuD and SLP
  – University admission gives less weight to courses taken at a community college
• Visit universities with AuD or SLP Programs
• Talk to current students
• Enroll in AuD or SLP Associations
  – CA Academy of Audiology
  – American Academy of Audiology
  – American Speech-Language-Hearing Association
Pacific Programs
University of the Pacific
Doctor of Audiology

- Program offered at the San Francisco campus
- Community clinics in San Francisco and Stockton
- 3 year accelerated program
- 124 units
- First AuD program in Northern California
- One of four accelerated programs in the nation
- $914 per unit
- Average class size: 20-22 students
University of the Pacific Speech-Language Pathology

- Program offered at the Stockton campus
- Hands-on experience at Pacific Speech, Hearing and Language Center
- Two accelerated options:
  - 15-month
    - Student with SLP Bachelor Degree
  - 24-month
    - Students with non-SLP Bachelor Degree
- Internship required for both 15 and 24 month program
- 56-88 units
- Average class size: 20-22 students
Questions?
Contact

Evan Blair

eblair@pacific.edu

(916) 739-7281

go.pacific.edu/graduate

Facebook / pacificgradadmission
Thank You!
PALMER
College of Chiropractic

The Trusted Leader in Chiropractic Education®
What is Chiropractic?
Rx Fact

60% of Americans take at least one prescription drug, with 15% on five or more medications.

*JAMA* November 3, 2015, Vol 314, No. 17
The total number of prescriptions filled by all Americans, including adults and children, has increased by 85 percent over two decades, while the total U.S. population has increased by only 21 percent.

Source: Quintiles IMS.
© 2017 Consumer Reports. All Rights Reserved.
The Doctor of Chiropractic is:

The primary care professional for spinal health, and well-being.
Primary Care Professionals for Spinal Health and Well-being

- Integrate evidence, clinical experience, and patient values and preferences,
- Deliver expert chiropractic adjustment, manipulation and other treatments,
- Embody a tradition of caring, effectiveness and patient satisfaction,
- Collaborate and coordinate care with other health professionals,
- Enhance patient quality of life and performance,
- Promote vitality, wellness and patient empowerment,
- Enable patients to avoid unnecessary drugs and surgery,
- Offer readily accessible care.

PALMER
Chiropractic Clinics

The Trusted Leader in Chiropractic Education®
77% Very effective

18% Somewhat effective

95% of past-year chiropractic users say it’s EFFECTIVE.

Source:
2016 Gallup-Palmer College of Chiropractic Annual Report: Americans’ Perceptions of Chiropractic (10/16)
89% of past-year chiropractic users recommend it to family and friends.

Source:
2016 Gallup-Palmer College of Chiropractic Annual Report: Americans’ Perceptions of Chiropractic (08/16)
Know the Risks of Serious Side Effects/Death Associated with Common Treatments for Musculoskeletal Pain

- Spine Surgery: 1,800 per 1 million
- Cervical Spine (Neck) Surgery: 500 per 1 million
- Use of NSAIDS/Aspirin: 153 per 1 million
- Prescription Opioid Pain Medications: 53.6 per 1 million
- Chiropractic Adjustment: <1 per 1 million (about 1 in 5.85 million)

Sources: Available at www.palmer.edu/gallup-report/sources (02/16)
Curriculum – General Sciences

- Neuroanatomy
- Spinal Anatomy
- Gross Anatomy
- Embryology
- Biochemistry
- Physiology
- Chiropractic Philosophy
- Endocrinology
- Organ Histology
- Pathology
- Immunology and Communicable Diseases
- Microbiology
- Palpation
- Physiotherapy I - Passive Care
- Physiotherapy II - Active Care
Curriculum – Chiropractic Sciences

- Public Health
- Systems Pathology
- Digestive Physiology and Nutrition
- Physiology
- Chiropractic Philosophy
- Radiology
- Toggle Recoil Technique
- Thoraco Lumbar Technique
- Neuromusculoskeletal Diagnosis

- Toxicology
- Physiotherapy
- Cervical Technique
- Biomechanics
- Intro to Clinical Practice
- Obstetrics & Pediatrics
- Pelvic Technique
- Clinical Nutrition
- Differential Diagnosis
- Subluxation Analysis
Curriculum – Clinical Sciences

- Chiropractic Practice Marketing
- Clinical Methods
- Emergency Procedures
- Visceral Disorders & Laboratory Interpretation
- Clinical Psychology
- Radiology
- Technique Principles & Practice
- Planning for Practice Success

- Clinic
- Extremity Adjusting
- Financial Management Strategies
- Legal Issues
- Gender-related Health
- Chiropractic Philosophy
- Practice Management Strategies
- Geriatrics
- Evidence-based Chiropractic
## Degree Requirements Comparison

<table>
<thead>
<tr>
<th>Degree</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C.</td>
<td>4,629</td>
</tr>
<tr>
<td>D.P.T.</td>
<td>3,870</td>
</tr>
<tr>
<td>M.D.</td>
<td>4,800</td>
</tr>
<tr>
<td>D.O.</td>
<td>4,665</td>
</tr>
</tbody>
</table>

Source: 2014 ProHealthsys.com
Anatomy Hours - Comparison

D.C. 375
P.T. 112
M.D. 182
D.O. 375

Source: 2014 ProHealthsys.com
<table>
<thead>
<tr>
<th>Profession</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C.</td>
<td>440</td>
</tr>
<tr>
<td>P.T.</td>
<td>256</td>
</tr>
<tr>
<td>M.D.</td>
<td>420</td>
</tr>
<tr>
<td>D.O.</td>
<td>450</td>
</tr>
</tbody>
</table>

Source: 2014 ProHealthsys.com
Orthopedic Hours - Comparison

D.C. 594
P.T. 218
M.D. 45
D.O. 270

Source: 2014 ProHealthsys.com
# Diagnostic Imaging (Radiology) Hours - Comparison

<table>
<thead>
<tr>
<th>Role</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C.</td>
<td>301</td>
</tr>
<tr>
<td>P.T.</td>
<td>12</td>
</tr>
<tr>
<td>M.D.</td>
<td>100</td>
</tr>
<tr>
<td>D.O.</td>
<td>200</td>
</tr>
</tbody>
</table>

Source: 2014 ProHealthsys.com
Chiropractic Job Outlook

Chiropractic employment is projected to grow faster than the average for all occupations.

Change in employment now through 2024.

Chiropractic use higher than previous estimates

33.6 million U.S. adults sought chiropractic care in 2014, compared to 20.6 million in 2012.

Source: 2015 Gallup-Palmer College of Chiropractic Inaugural Report: American’s Perceptions of Chiropractic (06/15)
CHIROPRACTIC
EMPLOYMENT OUTLOOK
A good investment

COMPETITIVE SALARIES


STRONG JOB GROWTH PREDICTED

All Jobs: 6.5%  DCs: 17%

Health career with options

• Start an independent practice
• Work as a group practitioner
• Multi-specialty health group
• Researcher
• Hospital staff
• Corporate chiropractor
• Orthopedics, pediatrics, geriatrics, sports chiropractic
Live your dream. Be a chiropractor.

Dr. Bill Moreau
Olympic Chiropractor

Dr. Michael Miller
New England Patriot Chiropractor
Chiropractic: Profession Comparison

Chiropractic overlaps with several other forms of manual therapy, including massage therapy, physical therapy, and osteopathy.
Academic Requirements

- 90 semester credits of college coursework *

- 24 semester credits of sciences Anatomy and General Chemistry specifically included

- GPA 3.0 or above**
For your career, you:

- Are motivated to help people and want to work in a field where you can make a difference
- Are interested in a healthcare career
- Want to change lives for the better, and be appreciated by your patients
- Want an opportunity to give back to your community
For your career, you:

• Are biased in favor of a non-invasive, holistic integrative care approach to health and wellness, rather than a focus on disease

• May have had an enlightening experience as a chiropractic patient, or been influenced by a chiropractic friend or mentor

• Want the ability to set your own hours, be your own boss; a job that allows a balance in your personal life

• Want to make a reasonable living with a good return on your educational investment of time and money
Value of a Palmer education

Name

Recognition
Why Palmer?

The first and largest chiropractic college

Foundation to foreword thinking
Why Palmer?

World’s largest chiropractic research center

The largest and most highly funded research effort in the chiropractic educational community.
Why Palmer?

Center for Business Development

Providing students and alumni with the business skills they need to build a successful career in chiropractic.
Why Palmer?

Palmer faculty wrote the books

Read their textbooks at other colleges ... be taught by them at Palmer.
The Palmer Advantage: Technique

The core curriculum courses in the Palmer Package are mostly organized by regions of the spine, including courses on cervical, thoracolumbar, pelvic and extremity adjusting technique and management. Some of the most popular:

- Toggle Recoil
- Diversified
- Thompson
- Gonstead
Helping you succeed

- Scholarships and grants available
- Financial Planning staff will help
- Federal Work Study Program – work on campus to reduce your student debt load
- Yellow Ribbon Program eligible for veterans
Palmer students perform well above Council on Chiropractic Education benchmarks for the National Board of Chiropractic Examiners exam.
Student Scholarships

$2,943,611
2013-14

$3,116,620
2014-15

$4,087,946
2015-16*

*awarded through 4/30/16

PALMER College of Chiropractic

The Trusted Leader in Chiropractic Education®

Source:
2015-2016 Palmer College of Chiropractic Annual Report
www.palmer.edu/report/15-16
(7/16)
Student-loan Default Rates

- Palmer College (2012): 2.1%
- National 4-Year Public Colleges (2012): 4.2%
- National 4-Year Private Colleges (2012): 7.6%
- Palmer College (2012): 6.3%

Source: 2015-2016 Palmer College of Chiropractic Annual Report
d www.palmer.edu/report/15-16 (7/16)
In a new study by the Brookings Institution, Palmer College of Chiropractic’s Davenport campus earned a top score of 100 with regard to loan repayment rates (a common measurement of student financial success after graduation) and earned a score of 99 for occupational earnings power (a measure which expresses the average market value of the career for which the college prepared its graduates).

According to MarketWatch.com, Palmer also is the fourth top college “with highest value added with respect to loan repayment.” The Brookings’ study, titled “Beyond College Rankings: A Value-Added Approach to Assessing Two- and Four-Year Schools,” was authored by Jonathan Rothwell and Siddharth Kulkarni.
Connect with Palmer!

Bill Riley
bill.riley@palmer.edu / Bill-at Palmer Riley

@palmercollege
Jeffrey L. Turchi, DDS

BA History, UCLA 1980

DDS, University of the Pacific School of Dentistry 1988

Private Practice in Palos Verdes and Mission Viejo, CA 1988-2006

Director of Clinical and Educational Affairs, J. Morita USA 2006-2011

Group Practice Director, UCLA School of Dentistry 2011-2013

Assistant Professor/ Manager of Admissions and Recruitment/ Coordinator of CE, Western University College of Dental Medicine 2013- Present
WesternU of Health Sciences

- College of Osteopathic Medicine
- College of Allied Health Professions
- College of Pharmacy
- College of Graduate Nursing
- College of Veterinary Medicine
- College of Podiatric Medicine
- College of Dental Medicine
- College of Optometry
- Graduate College of Biomedical Sciences
“Your Success is Our Success”

Dr. Bradley Henson
Associate Dean - Research and Biomedical Sciences

SHARED VALUES

Respect

Integrity

Dedication

Compassion
Our Vision

“We aspire to create a premier educational environment that fosters continuous professional growth and promotes individual dignity for all.”
Our Mission:
We will achieve our vision through the purposeful pursuit of an innovative, integrated curriculum; offering patient centered care in a setting using advanced technology and supports interprofessional practice; employing and generating basic and translational research.
We will achieve our vision through the purposeful pursuit of an **innovative, integrated curriculum**; offering patient centered care in a setting using advanced technology and supports interprofessional practice; employing and generating basic and translational research.
Western University
of Health Sciences
The discipline of learning. The art of caring.

J&K Virtual Reality Learning Center
Transforming Medical Education

Intelligent Learning Path

realizeit™

Anatomage TABLE
Virtual Dissection

fusion.tech
innovative immersive education

Oculus

zSpace
• Developed at Stanford University

• Students “dissect” the body and move through layers of tissue to see the structures

• With the touch of a finger, students can expand the size of a body section to study its details, and turn that body part, or the whole body 360 degrees, to study from all angles.
Our Mission:
We will achieve our vision through the purposeful pursuit of an innovative, integrated curriculum; offering patient centered care in a setting that uses advanced technology and supports interprofessional practice; employing and generating basic and translational research.
Virtual Simulation: MOOG
Curricular Building Blocks

- Basic and Biomedical Sciences
- Dental Sciences
- Interprofessional Education
- Comprehensive Patient Care
- Community-Based Dental Education
Curricular Building Blocks

- Basic and Biomedical Sciences (NDBE 1)
- Dental Sciences
- Interprofessional Education
- Comprehensive Patient Care
- Community-Based Dental Education
Curricular Building Blocks

Basic and Biomedical Sciences (NDBE 1)

Dental Sciences (NDBE 2)

Interprofessional Education

Comprehensive Patient Care

Community-Based Dental Education
Curricular Building Blocks

- Basic and Biomedical Sciences (NDBE 1)
- Dental Sciences (NDBE 2)
- Comprehensive Patient Care (State Licensure Exam)
- Community-Based Dental Education
- Interprofessional Education
A week in the life of a first year dental student

**Basic and Biomedical Sciences**

- **Mon 3/28**
  - 8 – 10am: Blood & Lymph: Properties of blood, Hemoglobin & Oxygen transport - Boehm

- **Tue 3/29**
  - 8 – 10am: Blood & Lymph: Plasma & Coagulation - Boehm
  - 10 – 11am: BMS: Behavioral Science and Dentistry; Video Analysis #10 -

- **Wed 3/30**
  - 8 – 11am: Blood & Lymph: Case 1,2 small group - Boehm

- **Thu 3/31**
  - 8 – 10am: Blood & Lymph: Case 1,2 large group - Boehm
  - 10 – 11am: SL II: Intro to Epidemiology - H. Singh

**IPE**

- **Fri 4/1**
  - 1p – 3p: ECD II: Exam II - OAA
  - 3p – 4p: ECD II: Oral Microbiology - Boehm
  - 4p – 5p: ECD II: Oral Immunology and Inflammation - Boehm

**WREB Assisting (volunteer)**

**CBDE**

**Dental Science**

- **Mon 3/28**
  - 1p – 2p: ECD II: Chronic Periodontitis - C. Kim

- **Tue 3/29**
  - 2p – 5p: ECD II: Class I C Session IV - Watts

- **Wed 3/30**
  - 3p – 5p: ECD II: Mid-Semester Evaluations (Formative feedback)

- **Thu 3/31**
  - 1p – 3p: IPE 5100: Case 5 - Case Introduction Presentations

- **Fri 4/1**
  - 3p – 5p: ECD II: Oral Microbiology - Boehm

[Western University of Health Sciences Logo]
Essentials of Clinical Dentistry

**Didactic**
- Lectures
- On-Line Preparation

**Practice**
- Simulated Treatment
- Self/Peer-Assessment
- Formative Feedback

**Assessment**
- Tests
- Clinical Procedures

**Application**
- The Dental Center
- Community-Based Care
Clinical Education Program

- General Dentistry Model
- Managing Partner/Team Leaders (6:1)
- Procedure Competency Assessment
- Practice Management Rotations
Community-Based Clinical Education

D1
- Service Learning
- Oral Health Education
- Preventive Interventions

D2
- Clinical Service Learning
- Preventive and Basic Restorative Care

D3
- One Day Site Rotations
- 5 Week Rotations
- Full Scope of Services

D4
- 7 Week Rotations
- Full-Scope of Services
- Public Health Elective
Community-Based Dental Education
Western U Class of 2021
GPA Averages and DAT Mean Scores

AADSAS Applications Received = 2,994

Interviews Granted = 373

- Average GPA:
  - Science GPA = 3.28

- DAT Average Scores:
  - Perceptual Ability = 20
  - Total Sciences = 20
  - Academic Average = 20
  - Reading Comprehension = 21

- Class Size = 69
WesternU College of Dental Medicine
Class of 2022 Application Process

- Associated American Dental Schools Application Service (AADSAS)
  - Available June 1, 2018
  - Deadline December 1st 2018

- Supplemental Application
  - Available on our website June 1, 2018
  - Deadline December 1st 2018

- Dental Admission Test (DAT)
  - Must be submitted by October 15, 2018

- Interviews are required prior to acceptance
WesternU College of Dental Medicine
Admission Requirements

- Minimum of 90 semester or 135 quarter hours
- Computer literacy on a laptop computer
- Complete the Dental Admission Test (DAT)
- Successfully complete the following prerequisites:
  - General Biology with lab (2 semesters/3 quarters)
  - General Chemistry with lab (2 semesters/3 quarters)
  - Organic Chemistry with lab (2 semesters/3 quarters)
  - General Physics with lab (2 semesters/3 quarters)
  - College English/English Composition (2 semesters/3 quarters)
Admissions continued

- Additional Courses Recommended:
  - Biochemistry*****
  - Human Anatomy
  - Human Physiology
  - Psychology
  - Genetics
  - Microbiology*****
  - Conversational Spanish

- Standardized Examinations:
  - Dental Admission Test (DAT)
    - Valid for 3 years
    - Application not considered before DAT scores received
  - Test of English as a Foreign Language (TOEFL)
    - Not a US Citizen & not received a bachelor’s degree in the US
Valuable Outcomes

- CODA Accreditation:
  “Approved without reporting requirements”

- 100% First-Time Pass Rate NDBE I (Class of 2018)

- 91-92% First-Time Pass Rate NDBE II

- 98% On-Time Graduation

- 95% First-Time Pass Rate WREB
Timing of Application

Admission at most dental schools is “rolling”. Many schools have a large percentage of their class full by the end of December. The message here is......

APPLY EARLY!
Admissions Counselors

Last Name A-L
Annica Correa
(909) 469-5231
acorrea@westernu.edu

Last Name M-Z
Andrea Nuno
(909) 469-5697
anuno@westernu.edu
Traits/Qualities of Successful Applicants
Thank you!
Pathways to Nursing

Catherine Wilde McPhee, FNP
Azusa Pacific University School of Nursing
Assistant Professor and Academic Practice Partnerships & Clinical Placements
Value of Diversity

• 44 states & 41 countries represented within the student body
• 100+ graduate and professional programs
• 8 locations across Southern California

Accreditation & Distinctive

• Approved by California BRN
• Accredited by CCNE & WSCUC
• School of Nursing named 8th in the nation by USA Today for 2015-16
• 13:1 student-to-faculty ratio
• Personable faculty currently in the field
Racial/ethnic mix of working RNs

- White: 77.2% (1990), 64.5% (1997), 61.5% (2004), 58.6% (2008), 51.6% (2014)
- Black: 12.7% (1990), 15.9% (1997), 18.2% (2004), 18.0% (2008), 20.3% (2014)
- Mixed/Other: 3.7% (1990), 4.9% (1997), 7.5% (2004), 7.5% (2008), 6.7% (2014)
- Native American: 7.6% (1997), 8.6% (2004), 8.6% (2008), 8.6% (2014)
- Asian/Pacific Islander: 1.2% (1990), 2.4% (1997), 2.9% (2004), 2.8% (2008), 7.6% (2014)
- Hispanic: 100% - Other races/ethnicities

UCSF
Initial nursing education for working RNs

- Diploma program
- Associate degree
- Baccalaureate degree
- Master's or Doctorate Degree
- 30 unit program

20.9% are internationally-educated
Highest level of nursing education of working RNs

<table>
<thead>
<tr>
<th>Year</th>
<th>Diploma program</th>
<th>Associate degree</th>
<th>Baccalaureate degree</th>
<th>Master’s or Doctorate Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>26.6%</td>
<td>33.9%</td>
<td>33.6%</td>
<td>5.8%</td>
</tr>
<tr>
<td>1993</td>
<td>22.9%</td>
<td>38.7%</td>
<td>33.7%</td>
<td>5.6%</td>
</tr>
<tr>
<td>1997</td>
<td>18.4%</td>
<td>36.7%</td>
<td>38.0%</td>
<td>6.8%</td>
</tr>
<tr>
<td>2004</td>
<td>13.7%</td>
<td>39.7%</td>
<td>38.1%</td>
<td>8.5%</td>
</tr>
<tr>
<td>2006</td>
<td>9.6%</td>
<td>36.3%</td>
<td>40.9%</td>
<td>13.2%</td>
</tr>
<tr>
<td>2008</td>
<td>9.5%</td>
<td>36.7%</td>
<td>41.6%</td>
<td>12.2%</td>
</tr>
<tr>
<td>2010</td>
<td>8.4%</td>
<td>38.5%</td>
<td>41.7%</td>
<td>11.5%</td>
</tr>
<tr>
<td>2012</td>
<td>7.0%</td>
<td>39.8%</td>
<td>42.3%</td>
<td>10.9%</td>
</tr>
<tr>
<td>2014</td>
<td>5.4%</td>
<td>33.2%</td>
<td>44.9%</td>
<td>16.6%</td>
</tr>
</tbody>
</table>
Average income from all nursing positions

<table>
<thead>
<tr>
<th>Year</th>
<th>Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>$31,504</td>
</tr>
<tr>
<td>1993</td>
<td>$42,163</td>
</tr>
<tr>
<td>1997</td>
<td>$45,073</td>
</tr>
<tr>
<td>2004</td>
<td>$59,937</td>
</tr>
<tr>
<td>2006</td>
<td>$73,542</td>
</tr>
<tr>
<td>2008</td>
<td>$81,428</td>
</tr>
<tr>
<td>2010</td>
<td>$82,134</td>
</tr>
<tr>
<td>2012</td>
<td>$89,940</td>
</tr>
<tr>
<td>2014</td>
<td>$93,911</td>
</tr>
</tbody>
</table>
Trends in Nursing

• In the Institute of Medicine (IOM) 2010 Future of Nursing report, they recommended 80% of nursing workforce be educated at the BSN or higher level by 2020.

• 2014 Update: 61.5% of California nurses achieved this
Trends in Nursing

• 2016 marked the first year BSN students made up 50% of all students in California pre-licensure programs

• CA Employment Development Department (EDD) forecasts **10,500 new nurses needed annually through 2018**

• APU graduates approximately 4% of newly graduated nurses in CA with more than a 90% employment rate within 12 months of graduating
Trends in Nursing

• 9-10% vacancy rate for nursing faculty

• 2016 HASC identified need for specialty unit nurses in Southern California:
  2,320 Critical Care
  1,392 Emergency Room
  1,072 Perioperative
  864 Labor & Delivery
School of Nursing

- Recently celebrated 40 years
- Creates difference makers
- Prepares compassionate nurses for leaders, research & education to transform healthcare
- 5 campuses & online
- Close to 1,800 nursing students:
  - 50% UG & Entry Level Masters
  - 50% Graduate and Doctoral level
# Pathways into Nursing

<table>
<thead>
<tr>
<th>Pathway</th>
<th>Degree Program</th>
<th>Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNA</td>
<td>BSN-2+2 Upper-Division Transfer Program</td>
<td>Nurse Anesthetist (APN)</td>
</tr>
<tr>
<td>Diploma</td>
<td>RN to BSN (1-1 1/2 years)</td>
<td>*MSN with Clinical Nurse Specialist (CNS)</td>
</tr>
<tr>
<td>LVN/LPN (1-2 years)</td>
<td>ELM Entry Level Masters MSN Nursing Education</td>
<td>*MSN with Nurse Practitioner (APN) specialties</td>
</tr>
<tr>
<td></td>
<td>MSN Health Care Administration &amp; Leadership</td>
<td></td>
</tr>
<tr>
<td>ADN (2-3 years)</td>
<td>Advanced Practice (APN)</td>
<td>Post Masters Certificate</td>
</tr>
<tr>
<td></td>
<td>School Nurse Credential</td>
<td></td>
</tr>
<tr>
<td>BSN Traditional (4 years)</td>
<td>Nurse Midwife (APN)</td>
<td>Doctorate: PhD and DNP.</td>
</tr>
</tbody>
</table>

* Certification with the CA BRN, eligible for National Certification exam.
**Undergraduate Programs**
- Bachelor of Science in Nursing (BSN)
- BSN (2+2 Upper-Division Transfer Program)
- LVN to BSN and LVN to RN
- RN to BSN (also online)
- Bridge to BSN
- International Opportunities

**Master’s Programs**
- Master of Science in Nursing (MSN)
- Entry-level Master’s (ELM) Program
- MSN in Healthcare Administration and Leadership
- MSN in Nursing Education (also online)
- MSN with CNS Specialties
- MSN with NP Specialties
- Post-Master’s Certificates

**Doctoral Programs**
- Doctor of Philosophy in Nursing
- Doctor of Nursing Practice
APU School of Nursing: RN to BSN Collaborative Model

- ADN Programs are essential to healthcare in California
- ADN students at Community College Partners with APU can have sequential enrollment in the APU RN to BSN Program
- Chancellor Office expectation in CA is completion of BSN within 1 year of ADN graduation with no repetition of courses
- 18% of ADN students in CA dually enrolled in collaborative ADN to BSN program mode
APU School of Nursing

- Field & Clinical Experience
- Public Health Certificate
- International Students
- General Education Units & Pre-requisites
Many acute care hospitals have earned or are seeking magnet designation: 80% of nurses will be BSN prepared or higher

Counsel the whole person toward the best choice

Health care and nursing are cross-generational

Millennials have a lot to offer with technological advancement and insights

LVN programs at community colleges are preferred
Advice for Students

▪ Get A’s in 4 sciences: Anatomy, Physiology, Micro, and Chemistry
▪ Science pre-requisites must be completed within past 5 years for many programs
▪ Online sciences
▪ Take A&P I & II at the same school
How to Choose for BSN

▪ Faculty education (MSN, PhD, DNP) and ratio to student
▪ Personal attention
▪ International Honor Society of Nursing, Sigma Theta Tau Chapter
▪ Progression of LOA needed (class availability)
▪ Rigorous undergrad leads to graduate-level success
▪ Reputation of school & program
▪ Not by least costly, quickest, or easiest
DACA Policies

• We will do everything possible to ensure our students have access to services & support for them to thrive
• Variety of current resources & examining other avenues
• Financial aid advisors
• “Tip sheet” for students
• Compliance with Family Educational Rights and Privacy Act of 1974 (FERPA)
Today’s employers demand
- Honed communication skills
- Capacity to collaborate
- Ability to think critically and creatively

Outlook for nursing is excellent!
- Graduates can be choosy
- Shortages of nurses
- Increased needs of the public
Thank you for investing in the education of our future nurses!

Catherine Wilde McPhee, FNP
cmcphee@apu.edu
Amber Bennett, OTD, OTR/L
Assistant Director of Admissions
Assistant Professor of Occupational Therapy
USC Mrs. T.H. Chan Division of Occupational Science & Occupational Therapy
University of Southern California
Occupational Therapy

**Occupation** = *meaningful activities* that occupy one’s time throughout the day:

- Morning and nighttime routines
- Late-night coffee breaks with friends
- Interacting with friends online
- Taking yoga classes
- Cooking a home-made meal
- Driving
- Learning about your future educational and career options
Occupational Therapy (OT)

- A holistic health care profession focusing on the art and science of helping individuals to build independent, healthy and meaningful lives despite disease, disability, lifestyle or injury.

- Promoting meaningful engagement in the activities that matter most to each individual.

- Analyzing the biological, psychological and social nature of disability and providing therapeutic interventions that increase functional ability and decrease extenuating limitations to people across the lifespan.
Occupational Science (OS)

• The basic science of how human health is affected by engagement in occupations.

• Established at USC in 1989 to provide the clinical profession of occupational therapy with its own scientific and research base for guiding clinical practices.

• Interdisciplinary links with related disciplines including anthropology, sociology, psychology, neuroscience, physiology, preventive medicine, biomedical engineering, rehabilitation science, gerontology and public health.
Where do OTs work?

- Hospitals
- Private clinics
- Schools
- Home health
- Corporations
- Community centers
- Psychiatric hospitals
- Skilled nursing/assisted living facilities
- University medical and research centers
Our Professional Program

• Two-year Master of Arts degree designed for students with a bachelor degree in any field other than occupational therapy
• Three core “practice immersions”:
  – Adult Physical Rehabilitation
  – Mental Health
  – Pediatrics
• Fieldwork: Level I and II
• Leadership capstone
• Elective options – allow for specialization
• Comprehensive exam
Why USC?

• Ranked in the nation’s top 3 programs
• 1st post-professional M.A. program in the U.S. (1962)
• Advanced degrees available
• World’s 1st Ph.D. program in Occupational Science (1989)
• 96 faculty members
• $10.4 million in active federal research funding (and more than $27 million in total since 1994)
• Integrated clinical practice arm
Why USC?

• Prepare as a generalist and choose electives to shape your specialty focus
• International fieldwork options
• OT House apartments for our graduate students
• Research assistantships, tuition scholarships and financial aid are available
Patient Care at USC Chan

- 39 clinical faculty providing direct patient care
- 65 people (faculty, staff and OTD residents) that support our OT clinical services
- 9 sites of service delivery across Greater Los Angeles including Keck Hospital of USC and Norris Cancer Center
  - ICU, Acute, IRU and service lines including heart failure, epilepsy, comprehensive spine, head and neck oncology, AYA oncology, hands
- OT Faculty Practice
- Student Run Clinic
Two-Year Master’s Prerequisites

3-4 semester units each

1. Human Anatomy (with laboratory)*
2. Human Physiology
3. Introductory Statistics
4. Developmental Psychology
5. Abnormal Psychology
6. Intro to Sociology/Anthropology
7. Medical Terminology (1-2 semester units or certificate)

*If Anatomy and Physiology are combined, students must take either 1) one combined Anatomy and Physiology course with laboratory worth 6-8 semester units, or 2) two sequential semesters of combined Anatomy and Physiology taken at the same school, totaling 6-8 semester units with a laboratory each semester.

*Four-week intensive Anatomy and Physiology available in May-June for admitted incoming students.
Application Process

- Complete an application on OTCAS
- Must be completed and verified by: **NOV 30th**
- Complete a baccalaureate degree with a minimum cumulative **grade point average (GPA)** of 3.0 from an accredited college or university (can be in progress at time of application) – in any undergraduate major!
- Send all official **transcripts** to OTCAS directly
  - If more than one semester studied abroad, submit all transcripts to USC Office of Graduate Admissions (https://gradadm.usc.edu/)
Application Process

• Complete the **Graduate Record Examination (GRE)** within five years of planned enrollment
  minimum scores: Verbal: 153 Quantitative: 144 and Writing: 3.5

• If applicable, complete **TOEFL or IELTS**

• **Personal statement**

• **3 Letters of recommendation**

• It is recommended to upload a **resume or CV** through OTCAS with your application
Application Review Process

• Holistic review process
• Admissions Committee reviews 5 main areas:
  – Cumulative GPA
  – Prerequisite GPA
  – GRE
  – Letter of recommendation
  – Personal statement
Admissions Team

• Liz Carley OTD, OTR/L  
  *Director of Admissions*  
  • Phone: (323) 442-2822  
  • E-mail: carley@chan.usc.edu

• Amber Bennett, OTD, OTR/L  
  *Assistant Director of Admissions*  
  • Phone: (323) 442-2460  
  • E-mail: amber.bennett@chan.usc.edu

• USC Chan Student Ambassadors  
  • Phone: (323) 442-2264  
  • E-mail: ambassadors@chan.usc.edu
Online at chan.usc.edu and social media at USCChanOSOT
Osteopathic Medicine: Philosophy, School & Career

Tava McGinty-Jimenez
Director, Office of Admissions
&
DO Counselor
Osteopathic Philosophy

“A student of life must take in each part of the body and study its uses and relations to other parts and systems”

Andrew Taylor Still
Tenets of Osteopathic Medicine

- Body is a unit
- Structure influences function
- Body has innate ability to heal itself
- Treatment is based on these principles

“To find health should be the object of the doctor. Anyone can find disease.”

–AT Still, 1899
DO Makeup

- More than 5,400 new osteopathic physicians enter the workforce each year.
- More than 20 percent of medical students in the United States are training to be osteopathic physicians.
- Eligible for licensure in all 50 states and full practice rights in 45 countries.
- 33 colleges, 48 locations, 31 states.
What Does a DO Do?

- Practice full scope of medicine
- Receive same medical training, in addition to 200+ hours of OMM training
- Trained to focus on the whole person
- Students learn how to integrate the patient into the health care process as a partner
Medical Education

- COMLEX & USMLE
- OMT
- Emphasizes integration of the body’s systems
- Single GME Accreditation System
Medical Education Timeline

- 4 Years - Undergraduate Study
- 4 Years - Osteopathic Medical Degree
- 3-7 Years - Residency
- 1-3 Years - Specialty Fellowship
Who We’re Looking For

• Well-rounded
• Strong communication and interpersonal skills
• Service and leadership
• Clinical experience
• Diverse background
• Knowledge of osteopathic medicine
Application Process

• WebAdmit
  – Cycle opens May
  – Applications ready for review June
  – Invitation to submit secondary application
  – Invitation to interview
  – Admission decision
General Admission Requirements

- Anatomy
- Biological/Zoology
- Biochemistry
- Genetics
- Histology
- Immunology
- Inorganic Chemistry
- Microbiology
- Neuroscience
- Organic Chemistry
- Physics
- Physiology

- English
- Behavioral Sciences
- Math
- Statistics
General Admission Requirements

• Shadowing Experiences
• Letters of Recommendation
• MCAT
  – Association of American Medical Colleges
Interview Selection

• Counselor review
  – MCAT trend
  – GPA trend
  – Combination of coursework & date
  – Felony & Misdemeanors
  – Experiences
  – And much more…
# Interview Scoring

<table>
<thead>
<tr>
<th>Student</th>
<th>Faculty</th>
<th>Academic</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| • Professionalism  
• Communication  
• Interest | • Experience  
• Critical Thinking  
• Understanding the Role  
• Interpersonal | • MCAT  
• GPA  
• Upper Division Science | • Faculty  
• MAC  
• Deans |
Application Tips

• Essay and Interview
  – Why do you want to be a DO, who are you, how will you be successful

• When to apply & fee waivers

• Navigating the MCAT

• Who to shadow

• What is included in the GPAs

• Repeated coursework

• Letters of Recommendation
Interview Tips

- Practice interviewing skills
- Osteopathic knowledge
- Research knowledge
- Be reflective
- Interpersonal translates to PE performance
AACOM Applicant Pool Profile

• AACOM Applicant Pool Averages
  – 3.45 is mean baccalaureate GPA
  – 501 MCAT is total mean
  – Top feeder colleges: University of Florida, UCLA, and Michigan State University-East Lansing
  – 183,374 applications, 20,836 applicants for 7,317 seats
  – 8.8 applications per applicant
  – Females represent less than half
Application Predictions

Application numbers will flatten or decrease-
- Census Data:
  - Population decline (less babies were born) for next four years.
  - Decline in those pursuing a bachelor’s degree.
  - More career options for less time and money.

Diversity Focus-
- COCA- Will start to collect and be more diligent with the data.
- AACOM- Added Diversity Statement
- TUN- Added Diversity Policy
D.O. More

- http://www.aacom.org/d-o-more
Resources

- http://www.aacom.org/reports-programs-initiatives/aacom-reports#Latest
- http://www.aacom.org/become-a-doctor
- http://www.aacom.org/d-o-more
Keck Graduate Institute
Claremont, CA

As part of the Claremont University Consortium, KGI is one of seven highly-regarded independent institutions that share a wide range of central facilities and services while providing rigorous curricula, small classes, distinguished professors, and personalized instruction.
Programs at Keck Graduate Institute

- Certificate in Bioscience Management (CBM)
- Master of Science in Applied Life Sciences (MS)
- Master of Business and Science (MBS)
- Master of Science in Human Genetics and Genomic Data Analytics (MSGDA)
- Master of Science in Human Genetics and Genetic Counseling (MSGC)
- Master of Science in Human Genetics and Genomic Counseling (MSGC)
- Postbaccalaureate Pre-PA Certificate (PPA)
- Postbaccalaureate Premedical Certificate (PPC)
- Postdoctoral Professional Masters (PPM)
- PhD in Applied Life Sciences (MS)
- Summer Programs
What We’ll Explore Today

KGI School of Pharmacy

• Doctor of Pharmacy (PharmD) Program
• Genetics Programs
  • Master of Science in Human Genetics and Genetic Counseling (MSGC)
  • Master of Science in Human Genetics and Genomic Data Analytics (MSGDA)
Discussion

Do you have students who are interested in Pharmacy or Genetics?

If not, what are some of the barriers?
Why Pharmacy?

- Integral member of the healthcare team
- Medication Experts
- Range of Career Options
- Trusted Profession
- Give back to your community
- Most accessible healthcare providers
- Influence healthcare on a large scale
- Excellent Earning Potential
Pharmacists Help People Live Healthier, Better Lives

Pharmacists Do This Through a Variety of Career Options
Discover the KGI PharmD +

KGI School of Pharmacy PharmD+ Certificate Programs

- Medication Therapy Outcomes (MTO)
- Healthcare Information Technology (HIT)
- Healthcare Management (HCM)
- Clinical Trials and Regulatory Affairs (CRA)
- 2 Tracks
Exploring PharmD Career Paths: Clinical Trials and Regulatory Affairs

**Example Jobs**
- Medical Science Liaison
- Medical Communications/Drug Information
- Executive Director, Regulatory Affairs

**Example Work Settings**
- Amgen
- Sanofi
- Pfizer

Where to find more information:
- Industry Pharmacists Organization
Exploring PharmD Career Paths: Healthcare Information Technology

Example Jobs
• System Pharmacy Informaticist
• Medication Management and Electronic Health Records
• Vice President of Solution Mgmt

Example Work Settings
• Sharp Healthcare
• Carefusion

Where to Find More Information:
• ASHP Section of Pharmacy Informatics and Technology
• Health Information Management Systems Society
Exploring PharmD Career Paths: Healthcare Management

Example Jobs
- Hospital Pharmacy: Management
- Healthcare Finance and Reimbursement
- Vice President and General Mgr

Example Work Settings
- Biopharmaceutical Industry
- Hospital/Health System Pharmacy
- Community Pharmacy

Where to find more information:
- American Society of Health Systems Pharmacists
- LinkedIn
Example Jobs
- Infectious Disease Pharmacist
- Ambulatory Care – Diabetes Care
- Health System Pharmacy: Inpatient – Cardiology Specialty

Example Work Settings
- Hospital/Health System Pharmacy
- Community Pharmacy
- Biopharmaceutical Industry

Where to find more information:
- APhA Career Option Profiles
Preparing for Success in Pharmacy School

Career Exploration

Prerequisites

Writing Skills

Interview Preparation
PharmD Career Exploration

• Start early. Why do YOU want to be in this profession?
  • Shadowing; Ask questions of current professionals in the field.
  • Research the profession
  • How have you demonstrated persistence in academic rigor to begin a professional program?
KGI PharmD Prerequisites

PREREQUISITES

5 - SEMESTER CREDIT HOURS  •  Q - QUARTER CREDIT HOURS
Writing Skills

• Organize your thoughts and practice.
  • Can the meaning behind what you are writing be understood?
  • If allowed, have someone proofread your work.

• Grammar and spelling count.
  • For KGI, writing is assessed *twice* during the admission process (including an onsite statement).
  • Answer the question that is asked.
  • Communicating clearly is critical both with colleagues and with patients.

• Why do YOU want to be in this profession?
KGI PharmD Interviews

• Give yourself plenty of time to arrive to the interview.
• Dress professionally.
• Research the school.
• Practice interviewing skills.
  • Career Centers at Undergraduate Institutions
  • Family and Friends
• Be confident with what you have to offer.
• Think about what YOU would want to experience in your communication with a healthcare professional.
  • Compassionate
  • Good listener.
  • Motivated.
  • Passion for the field and for patients.
• Answer the question that was asked.
Remember **key features** of KGI PharmD Program:
- Graduates earn a **Certificate plus a PharmD**
- Increased focus on topics critical to the future of pharmacy, **including pharmacogenomics**
- Enhanced exposure to the biotechnology industry

**Interviews** have already begun for the **Fall 2018** class.

Applicants are encouraged to **apply early** for priority consideration for scholarships.

The **deposit structure** is now easier for PharmD applicants:
- $250 Initial Deposit
- Remaining $750 due by March 15

For more information on the PharmD program, see [http://www.kgi.edu/pharmacy/admissions/doctor-of-pharmacy-(pharmd)](http://www.kgi.edu/pharmacy/admissions/doctor-of-pharmacy-(pharmd)).
Why is studying Genetics Important?

- Determine ways to better predict disease.
- Improve the welfare of humanity and relieve suffering\(^1\).

\(^1\) - http://www.pharmacist.com/oath-pharmacist
Two KGI Genetics Pathways

KGI Master of Science in Human Genetics and Genetic Counseling (MSGC)

KGI Master of Science in Human Genetics and Genomic Data Analytics (MSGDA)
• **What do Genetic Counselors do?**

  • Genetic Counselors provide risk assessment, education, and support to individuals and families with or at risk for inherited conditions.

  • As the genetics experts within the healthcare team, Genetic Counselors have the opportunity to work in a variety of specialties such as prenatal, pediatric, adult disease, cancer, industry/lab, and specialty clinic.

  • Employment settings for Genetic Counselors include hospitals and medical centers, community settings, academia, and the biotechnology industry.

  • Due to the significantly increased understanding of genetics and how this impacts health, Genetic Counseling is a rapidly growing field, with an estimated 29% growth rate expected by 2024.
More About Genetic Counseling at KGI

- Where are the KGI Genetic Counseling Clinical Rotations?
KGI Genetic Counseling (MSGC) Admission Requirements

- Bachelor’s Degree from a regionally accredited university
- B or better in each prerequisite
- 3.0 undergrad GPA
- GRE within 5 years
- Current CV
- Personal Statement
- 3 Letters of Recommendation (at least 1 from an academic)
- Check out KGI’s webpage to see how you can gain exposure to the Genetic Counseling field
What do Genomic Data Analysts do?

- Determine what variant causes a disease
- Problem solvers
- Organize and analyze data
- Interpret data and present it to stakeholders
- Provide knowledge to help develop new drugs based on evidence
- Also often referred to as Clinical Variant Curators
More About Genomic Data Analytics at KGI

• Exploring Genomic Data Analytics Job Descriptions

Bioinformatics Analyst
San Francisco, CA • Full-time

Job Description
AncestryDNA is seeking a motivated and talented Bioinformatics Analyst to help us optimize and maintain the genomic analysis pipelines and data sets used by the genomics R&D team at AncestryDNA. The successful candidate will work with our team of biologists, population geneticists, statisticians, computer scientists and epidemiologists to design and implement genomic and bioinformatics pipelines for scalability and to take advantage of distributed computing environments in a local cluster and in the AWS.

Data Analyst SCHARP, Clinical Data

<table>
<thead>
<tr>
<th>Job ID</th>
<th>Type</th>
<th>Regular Full-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>6037</td>
<td></td>
<td>US-WA-Seattle</td>
</tr>
</tbody>
</table>

Company: Fred Hutchinson Cancer Research Center
Category: Clinical Research Support Services

Overview
The Statistical Center for HIV/AIDS Research and Prevention (SCHARP) at Fred Hutch is seeking a Data Analyst to provide data curation, integration, and analysis support for multiple clinical and laboratory data pipelines. The Data Analyst will use their data management expertise to optimize and document data design, database architecture, metadata and repository creation, data pipelines, data storage, and data models, and to curate and annotate data using open standards (e.g., CDISC).
Genomic Data Analytics (MSGDA) Admission Requirements

- Bachelor’s Degree from a regionally accredited university
- C or better in each prerequisite
- Current CV
- Personal Statement
- 3 Letters of Recommendation
- Check out KGI’s webpage to learn more about Genomic Data Analytics
### Genetics at KGI - Year 1

**Common Courses such as:** Genetic Disease Mechanisms, Human Genomics, and Clinical Cancer Genetics

**Genetic Counseling Students Specialize in courses such as:**
- Human Embryology and Prenatal Diagnostics
- Medical Communication, Counseling Theory and Skills

**Genomic Data Analytics Students Specialize in courses such as:**
- Human Genomics Lab
- Biomedical Data Systems and Informatics
- Clinical Trial Design

### Genetics at KGI - Year 2

**Genetic Counseling Year 2 includes courses/activities such as:**
- Psychosocial and Professional Development
- Genetic Counseling Fieldwork
- Research Thesis

**Genomic Data Analytics Year 2 includes courses/activities such as:**
- DNA Sequencing and Variant Analysis
- Genomic Knowledge Translation
- Capstone

### Genetics at KGI - Summer

**Genetic Counseling Summer:**
- Genetic Counseling Fieldwork

**Genomic Data Analytics Summer:**
- Experience in human genomic data analysis in industry or clinical laboratory settings

See webpage and brochure for full list of courses
**Why Pursue Graduate Study in Genetics at KGI?**

- Be part of the **first** Genetic Counseling Program in School of Pharmacy and a premier Analytics program at the **forefront of next generation sequencing** technology.

- Benefit from *School of Pharmacy expertise* in *pharmacogenomics*, precision, and personalized medicine.

- Capitalize on KGI’s **focus on Professional Development** and Networking.

- *Combine your passion* with the ability to help patients in an exploding healthcare field.

- Develop **cutting-edge skills** that make you **stand out**.
Welcome to PharmGrad

The 2016-2017 PharmGrad cycle is now closed. You may log in to your 2016-2017 PharmGrad application in order to add or update information, but you will not be able to delete. You also cannot submit your 2016-2017 PharmGrad application to any new programs.

The 2017-2018 PharmGrad application cycle will open on September 20, 2017.

Sign in with your username and password below. First time here? Select Create an Account to get started.

Sign In

Forgot your username or password?
GENETIC COUNSELING

- **Application Deadline**: February 1, 2018

- Applications will be accepted through the application deadline. After the application deadline, those selected for an interview will be contacted in February/March.

- KGI is participating in the Genetic Counseling Admissions Match. **All Genetic Counseling applicants should register online to participate in the 2018 Match** via the GC Admissions Match web site: https://natmatch.com/gcadmissions.

GENOMIC DATA ANALYTICS

- **Application Deadline**: February 1, 2018

- Applications will be reviewed on a rolling basis. Interviews will take place starting in December as well as into the Spring.
What is the **BEST** way to learn more?
Attend a KGI Visitation Day!

KGI offers visit days that are open to prospective students, families, advisors, and instructors. Visit our website to view upcoming dates and register for visitation days.

www.kgi.edu/admissions/visit-kgi/visitation-days
Visit pharmacyforme.org to learn more about the profession of pharmacy.

**Is Pharmacy Right for You? Ask Yourself:**

- Do you want to serve the community and improve people’s health?
- Do you have strong communications skills?
- Do you like science and math?
- Are you detail-oriented and organized?
- Do you enjoy problem-solving?

If the answer is “yes” to one or more of these questions, then pharmacy may be right for you!
Supplementary materials help spread awareness about Genetic Counseling and Genomic Data Analytics.

Sources:
- www.genome.gov
- www.nsgc.org
- www.ashg.org
Stay in touch!

Facebook @KeckGraduateInstitute
Instagram @KeckGrad
LinkedIn @KeckGraduateInstitute
Twitter @KeckGrad
YouTube @KeckGrad

KGI Pharmacy Admissions
pharmacy.admissions@kgi.edu
909.607.9145
www.kgi.edu/pharmacy
What can we as professional schools do to further open doors for your students?
Thank You
What does it take to become a Physical Therapist?

• Must obtain a Doctorate of Physical Therapy degree

• 3 years of academic coursework
  • includes: Anatomy, Physiology, Pathology, Biomechanics, Gait Analysis, Orthopedics, Neurology, Cardiopulmonary, Women Health, Pediatrics, Geriatrics, Professional and Business Ethics...etc.

• Doctoral Research Project*

• Clinical Internships
  • *CSULB requirement
Admission Criteria

• Must have completed your undergraduate degree by the Fall semester of the year you are applying

• Completion of all prerequisite courses by the end of the Fall semester of the year applying

• No more than two prerequisite courses should be in progress during that fall semester
Application information

• Bachelor’s degree
  • GPA

• Prerequisite courses
  • GPA

• GRE scores
  • Recommendations

• Experience hours

• Letters of recommendation

• Personal essay
Bachelor’s degree

• From an accredited institution
• Major does not matter
  • Most of the students admitted to the program
    • Kinesiology
    • Exercise Science
    • Biology

• As long as you have:
  1. Completed the degree
  2. Required overall GPA is $\geq 3.00$
    • PTCAS will calculate the GPA’s based on official transcripts submitted to them
    • PTCAS averages all coursework (including repeats) for overall GPA
## Prerequisite Courses

### General Biology
- **Semester:** 2 semester/3 quarter

### Human Anatomy & Physiology
- **Semester:** 2 semester/3 quarter

### General Chemistry
- **Semester:** 2 semester/3 quarter

### General Physics
- **Semester:** 2 semester/3 quarter

### Statistics
- **Semester:** 1 semester/1 quarter

### Psychology
- **Semester:** 1 semester/1 quarter
<table>
<thead>
<tr>
<th>CSULB Course</th>
<th>Description</th>
<th>Semester Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 208</td>
<td>Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>Biology 211 &amp; 212</td>
<td>General Biology I &amp; II</td>
<td>4,4</td>
</tr>
<tr>
<td>Biology 213 or 207</td>
<td>General Biology III or human Physiology</td>
<td>4,4</td>
</tr>
<tr>
<td>Biology 260</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>Chem 111 A&amp; B</td>
<td>General Chemistry</td>
<td>5,5</td>
</tr>
<tr>
<td>Physics 100 A &amp; B</td>
<td>General Physics</td>
<td>4,4</td>
</tr>
<tr>
<td>Psy 100</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>
Prerequisite Courses

• All biology, chemistry and physics courses must have a lab section

• Biology & Chemistry sequence must be for science majors, allied health majors, etc.
  • Microbiology may substitute for the second biology course
  • Organic chemistry or biochemistry may substitute for the second chemistry course

• Abnormal psychology may substitute for general psychology

• Anatomy and physiology must have been completed within 5 years prior to application
  • All other prerequisite courses must have been taken within 10 years of applying
What if I’m not taking the prerequisite courses at CSULB?

• Accredited Institution

• Course Description
  • Be sure to check the catalog to compare course description
  • Inclusion of lab

• Science courses for Bio, science, allied health majors

• Statistics
  • Scientifically based, usually offered in Math, Psych or Bio dept’s.

• Use assist.org if courses taken at a community college
  • We do accept prerequisite courses taken at a community college
Prerequisite courses

• Required prerequisite GPA is >= 3.00
  • CSULB will calculate your prerequisite GPA based upon official transcripts submitted to PTCAS
  • In the case of a course being retaken, we will take the higher of the two grades when determining your prerequisite GPA

• All prerequisite courses must be completed by the end of the fall semester of the year you are applying
  • PTCAS will have an open window in which to submit your transcripts in December
  • Courses not verified by PTCAS will not be considered when assessing the application
  • We do NOT accept applicants who have prerequisite courses in progress in the Spring
GRE

• Required
• Taken within the last 5 years
• GRE scores reported by test date **not** section
  • all three sections of one test date will be used
  • you can’t use sections from different test date

• Recommended:
  • At least **4.0** in the Analytical section
  • At least **150** in Verbal and Quantitative sections

• You may take the GRE as many times as you would like
  • It is recommended that you take the GRE **no later than one month prior to the PTCAS deadline** in order to allow for processing and verification of your scores
Experience Hours

• Minimum of 100 hours
• DIVERSE settings
  • OP clinic
  • Specialized setting
  • Acute care setting
  • Acute Rehab setting
  • Skilled Nursing Facility
  • Sports team
  • PT
Experience Hours

• **Hours**
  • You can earn more credit based upon the total number of verified hours listed on the PTCAS application
    • A minimum of 100 hours is required but the applicant can receive credit for up to 400 hours

• **Sites**
  • You can earn more credit based upon the total number of sites listed on the PTCAS application
    • A minimum of 1 site is required but the applicant can receive credit for up to 4 sites

• Having more than 400 hours and/or 4 sites will not negatively affect the applicant's score
Letters of Recommendation

• Ideally:
  • One from an instructor (prerequisite course)
  • One from a licensed PT who has observed your work
  • One from an employer
    • Can be from a second PT or academic source if no employer available

• Should include/discuss the following:
  • Character
  • Communication skills
  • Background

• Get letters of recommendation from those that know you well
  • A highly recognized professor who doesn’t know you (and has his grad assistant write the letter for you) won’t help
  • Find someone who knows you and you’ve interacted with
Personal Essay

Your chance to paint a picture of yourself

• Why are you interested in this profession

• Why do you want to put yourself through 3 years of graduate school

• Give a good overall impression of yourself
  • It lets the reviewer get an idea of who you are
Summary of Admission Criteria

✓ Bachelor’s Degree
✓ Overall GPA $ \geq 3.0$
✓ Completed prerequisite courses with $ \geq 3.0$ GPA
✓ GRE within last 5 years
✓ Experience hours (minimum 100 hours)
✓ Three recommendation letters
✓ Personal essay
✓ Complete application to the Department AND to CSULB
The Application Process

Apply to the PT Dept. through PTCAS ptcas.org

June 30th to November 1st

Apply to CSULB through Cal State Apply Calstate.edu/apply

October 1st to January 15th

START EARLY
Important Dates and Information

• It is the Applicant’s responsibility to be sure that **ALL** material is submitted to PTCAS in time
  • Transcripts, GRE scores, experience hours, letters of recommendation, personal essay
  • **START EARLY**

• Incomplete applications **WILL NOT** be considered.

• Early Decision: August 15

• January 2017: Students are Notified of Acceptance into the Program
  • An alternate list is generated & applicants are notified of which tier they are on
SO WHAT CAN I DO TO HELP INCREASE MY CHANCES OF GETTING ACCEPTED?
Improving your chances

• Get good grades
  • Overall and prerequisite GPA’s of at least 3.5 to be competitive

• Get experience from different settings
  • Doesn’t have to be 100 hours in each setting but you’ll need ≥ 100 hours total

• Get letters of recommendation from those that know you
  • Find someone who knows you well and you’ve interacted with

• Personal essay
  • Give some insight to yourself and why you want to do this
Class of 2020

>1300 applied

39 students admitted
<table>
<thead>
<tr>
<th>Summer Session I, Year 1</th>
<th>Units</th>
<th>Summer Session III, Year 1</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPT 701a Anatomy I</td>
<td>2</td>
<td>DPT 701b Anatomy II</td>
<td>2</td>
</tr>
<tr>
<td>DPT 704 Tissue Mechanics</td>
<td>2</td>
<td>DPT 703 Neuroanatomy</td>
<td>3</td>
</tr>
<tr>
<td>DPT 720 Prof Interactions</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>5</td>
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<tr>
<td><strong>Fall, Year 1</strong></td>
<td></td>
<td><strong>Spring, Year 1</strong></td>
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<tr>
<td>DPT 705 Biomech Principles</td>
<td>3</td>
<td>DPT 709 Ex Science</td>
<td>3</td>
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<tr>
<td>DPT 706 Physiology</td>
<td>6</td>
<td>DPT 710 Pathology</td>
<td>3</td>
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<tr>
<td>DPT 707 Lifespan</td>
<td>2</td>
<td>DPT 735 Gait</td>
<td>2</td>
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<tr>
<td>DPT 701c anatomy III</td>
<td>2</td>
<td>DPT 732 MS exam</td>
<td>3</td>
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<tr>
<td>DPT 721 Prof Practice issues</td>
<td>2</td>
<td>DPT 740 Neuro Exam</td>
<td>2</td>
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<tr>
<td>DPT 708 Motor control/lrng</td>
<td>2</td>
<td>DPT 731 Acute care principle</td>
<td>2</td>
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<tr>
<td></td>
<td>17</td>
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<td>15</td>
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<td><strong>Summer Session I, Year 2</strong></td>
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<td><strong>Summer Session III, Year 2</strong></td>
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<tr>
<td>DPT 750 Imaging</td>
<td>2</td>
<td>DPT 722 Critical Thinking</td>
<td>1</td>
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<tr>
<td>DPT 765 Mgmt Integ</td>
<td>2</td>
<td>DPT 781 ICE</td>
<td>2</td>
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<td>DPT 796 Research Methods</td>
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<td>DPT 780a Ortho practice I</td>
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<td>DPT 751 Pharmacology</td>
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<td>DPT 752 Diff Dx</td>
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<td></td>
<td>8</td>
<td></td>
<td>6</td>
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<td><strong>Fall, Year 2</strong></td>
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<td><strong>Spring, Year 2</strong></td>
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<tr>
<td>DPT 733 MS Interventions</td>
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<td>DPT 734 Advance mgmt MS</td>
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<tr>
<td>DPT 741 Neuro Intervent I</td>
<td>3</td>
<td>DPT 736 Prosthetics &amp; Ortho</td>
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<tr>
<td>DPT 743 ENMG I: peripheral</td>
<td>2</td>
<td>DPT 744 ENMG II: central</td>
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<tr>
<td>DPT 760 Mgmt CardoPulm</td>
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<td>DPT 745 Mgmt Peds</td>
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<td>DPT 770 Health Care Deliver</td>
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<td>DPT 767 Mgmt Geri</td>
<td>2</td>
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<td>DPT 782 Neuro practice I</td>
<td>1</td>
<td>DPT 771 Health Care Del II</td>
<td>2</td>
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<td>DPT 797 Doctoral Project</td>
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<td>DPT 783 Neuro practice II</td>
<td>1</td>
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<td>DPT 797 Doctoral Project</td>
<td>1</td>
<td>DPT 797 Doctoral Project</td>
<td>2</td>
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<tr>
<td></td>
<td>16</td>
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<td>16</td>
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<tr>
<td><strong>Summer Session 2, Year 3</strong></td>
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<tr>
<td>DPT 784 12 wk clin internsh</td>
<td>6</td>
<td></td>
<td>6</td>
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<tr>
<td></td>
<td>6</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Fall, Year 3</strong></td>
<td></td>
<td><strong>Spring, Year 3</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall: First 10 weeks</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DPT 742 Advanced Mgmt NW</td>
<td>2</td>
<td>DPT 786 12 wk clin internsh</td>
<td>6</td>
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<tr>
<td>DPT 737 Sports PT</td>
<td>2</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>DPT 768 Pathophysiology</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>DPT 769 Advanced Mgmt CP</td>
<td>1</td>
<td></td>
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<tr>
<td>DPT 797 Doctoral project</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPT 780b Ortho practice II</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall: last 5 weeks/Winter</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPT 785 12 wk clin internsh</td>
<td>6</td>
<td>Graduate spring. Total units:</td>
<td>118</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CSULB’s DPT Faculty

- 9 full-time faculty
- 18 part-time faculty
- 2 full-time Department coordinators
DPT at CSULB

Great reputation

PhD and DPT prepared faculty

Emphasis on teaching

Small class size

Many hands-on opportunities

Cost
Hands on experiences

Internships:
• Three 12 week clinical internships
• Clinical Courses
• The Pro Bono clinic
• PT@the Beach
• Research Project
DOCTORAL RESEARCH PROJECT
Pathokinesiology Lab

Clinical Rehabilitation and Biomechanics (CRAB) Laboratory
Back muscle contraction during various activities
Gait and Fall Prevention Lab
Sternal Separation
Working while in PT school

To be honest, it’s very difficult

• Just for example the first full year (Fall and Spring semesters) you will take 15 and 17 units
  • about 21 to 26 hours per week in class
  • doesn’t include study time
  • doesn’t include group study/project time
  • doesn’t include free time/relaxation
  • doesn’t include sleep time

• We don’t encourage or recommend it
DPT Tuition and Fees*

CSULB DPT program per semester: ~ $ 9126
Per year: ~ $ 27,378 (3 semesters per year)
Total Cost: ~ $ 82,134 (3 years)

Compare to

Loma Linda ~ $ 105,500
Mount St. Mary’s ~$ 120,286
Western University ~$ 120,800
Azusa Pacific ~$ 118,372
Chapman ~$ 127,548
University of the Pacific ~$ 148,914
USC ~ $ 171,132
University of St. Augustine ~$ 188,590

* Approximate estimates for year 2017-18 per each universities web site
SO YOU MAKE IT THROUGH THE PROGRAM, NOW WHAT?
Graduation
# Take the Boards

## National Physical Therapist Licensure Exam

### National Physical Therapy Examination (NPTE) Pass Rates

<table>
<thead>
<tr>
<th>CSULB Cohort</th>
<th>CSULB 1st time pass rate</th>
<th>National avg. for 1st time pass rate</th>
<th>CSULB Ultimate pass rate (one or more attempts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class of 2014</td>
<td>100%</td>
<td>91%</td>
<td>100%</td>
</tr>
<tr>
<td>Class of 2015</td>
<td>100%</td>
<td>93%</td>
<td>100%</td>
</tr>
<tr>
<td>Class of 2016</td>
<td>100%</td>
<td>93%</td>
<td>100%</td>
</tr>
<tr>
<td>Class of 2017</td>
<td>97%</td>
<td>93%</td>
<td>100%*</td>
</tr>
</tbody>
</table>

### Graduation and Employment Rate

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Class of 2014</th>
<th>Class of 2015</th>
<th>Class of 2016</th>
<th>Class of 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation</td>
<td>94%</td>
<td>92%</td>
<td>93%</td>
<td>92%</td>
</tr>
<tr>
<td>Employment</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

*Graduation Rate is the percentage of the students enrolled in the DPT Program who completed the program within 150% of the time normally expected for completion.

**Employment Rate is the percentage of graduates employed as a Physical Therapist within 6 months after passing the licensure examination.
Contact Information

Jeff Rodrigues PT, DPT, CCS
Graduate Advisor
jeff.rodrigues@csulb.edu

Michelle Ramirez
Admissions and Clinical Education Coordinator
Michelle.Ramirez@csulb.edu

Gloria Dacanay
Department Coordinator
Gloria.Dacanay@csulb.edu
Pursuing the PA Profession

Leslie Lim, MA
Director of Admissions
llim@ketchum.edu

Sept 29, 2017
History of the PA profession

1967
- Duke University
- First graduating class: Three former Navy corpsmen

2016
- Today, PAs practice in every medical specialty and clinical setting

© American Academy of PAs 2017
What is a PA?

nationally certified and state licensed to practice medicine as part of a physician-led team.

PAs are educated at the graduate level (Master’s) and practice in nearly every medical and surgical specialty and setting.
What can a PA do?

- Take medical histories
- Conduct physical exams
- Order and interpret diagnostic studies
- Develop treatment plans
- Write prescriptions (In most states)
- Counsel on preventive healthcare
- Assist in surgery
- Perform procedures
- Make rounds in nursing homes and hospitals
- Do clinical research
To practice as a PA…

required to pass the national certifying examination administered by the National Commission on Certification of PAs.

Get licensed by the state they wish to practice
PAs Are Changing the Way We View and Receive Healthcare Today.

Some of the Benefits PAs Bring to the Healthcare System Are:

- Increasing access to care, especially for patients in rural or underserved areas
- Lowering healthcare costs for consumers and health systems
- Increasing the quality and comprehensiveness of team-based healthcare

© American Academy of PAs 2017
PAs are in demand

The role PAs play in expanding access to care while creating increased value for patients and hospitals is critical right now.

The Power of the PA Profession

+300%
Demand for PAs increased more than 300 percent from 2011 to 2014.

+30%
Employment of PAs is projected to increase 30 percent between 2014 and 2024.

+76%
Multiple job offers are received by 76 percent of PAs upon certification.

400,000,000 patient interactions

- National healthcare search firm, Merritt Hawkins
- NCCPA 2015 Statistical Profile of Recently Certified PAs
- 2015 AAPA National Survey
A Growing Profession

The PA Profession in News

#1 Most Promising Job
Forbes, Young Invincibles, and Glassdoor PA ranking of becoming a PA in America 2015.

#5 Best Job
U.S. News & World Report PA ranking in America 2016 (up from #10). Ranked #4 in healthcare.

#7 Highest Paying Job
Glassdoor 2017 Highest Paying Jobs in America.
First-year PAs in California earn a median salary of $100,000 annually.

*The data reflect clinically practicing PAs who worked 32 hours or more per week in 2015.
Source: 2016 AAPA Salary Report
Physician Assistant Programs
To become a PA, must graduate from an accredited educational program

- **224 accredited** PA programs throughout the United States
- **14 PA schools** in California
- **Average 2-year** training and education
  - Full-time postgraduate study
  - Program include classroom instruction and clinical rotations
  - Coursework in applied medical sciences, behavioral sciences and clinical medicine
  - Rotations includes emphasis on primary care in ambulatory clinics, physicians offices and acute/long-term care facilities

Source: © 2017 Physician Assistant Education Association (PAEA)
The Application Process

Apply to PA school through CASPA

Admissions Committee review applications for Interviews

On-campus Interview

Matriculation
Centralized Application Service (CAS)

- Most of the schools will accept applications through CASPA.
- Complete one application and send one set of documents to all the PA programs.
- Many programs use the calculated CASPA GPA.
- Application cycle opens in April each year.
- Applications are submitted one year prior to the year a student plans to attend.
Requirements will vary from each individual PA school:

- GPA and Transcripts
- Letters of Recommendation
- GRE or TOEFL scores
- Prerequisite Coursework
- Types of Patient Care Experience
The majority of PA programs have the following prerequisites:

- Chemistry
- Physiology
- Anatomy
- Microbiology
- Biology

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Anatomy</td>
<td>BIOL 361</td>
<td>4</td>
</tr>
<tr>
<td>Integrated Human Anatomy and Physiology</td>
<td>BIOL 191A/191B</td>
<td>4+4</td>
</tr>
<tr>
<td>Human Physiology/Human Physiology Lab</td>
<td>BIOL 310/310L</td>
<td>3+1</td>
</tr>
<tr>
<td>Mammalian Physiology</td>
<td>BIOL 362</td>
<td>4</td>
</tr>
<tr>
<td>General Microbiology</td>
<td>BIOL 302</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>CHEM 120A</td>
<td>5</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>CHEM 301A and CHEM 301B</td>
<td>3+3</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>PSCY 101</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Probability and Statistics</td>
<td>MATH 338</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete at least two years of college coursework in basic and behavioral sciences before applying to a PA program, which is very similar to premedical studies.
What is considered healthcare experience? (not an exhaustive list)

- Medical assistant
- Emergency medical technician (EMT)
- Paramedic
- Medic or medical corpsman
- Peace Corps volunteer
- Lab assistant/phlebotomist
- Registered nurse
- Emergency room technician
- Surgical tech
- Certified nursing assistant (CNA)
- COPE Health Scholars

Most students have a bachelor’s degree and about three years of healthcare experience before entering a program.
What does it take to get into PA school?

**Minimum**
- 3.0 Overall and Science GPA
- 1,000 hours of direct hands-on patient care experience
- Complete prerequisite coursework
- GRE scores
- Do well on Interview

**Average Competitive Applicant**
- 3.4 or greater Overall and Science GPA
- 4,000 hours (2 years) of direct hands-on patient care experience
- Strong letters of recommendation
- Do extremely well on Interview
Additional criteria taken into consideration

• Community/Volunteer service
• Extracurricular activities
• Leadership experience
• Strong Communication skills
• Teamwork skills
• Critical thinking skills
What are some of the most common mistakes individuals make when applying?

1. Misdirected Personal Statement

2. Applying to CASPA at the last minute.

3. Not meeting the requirements for the program to which they are applying
How you can advise your Pre-PA students

1. Get good grades in undergraduate courses

2. Enroll in courses in basic, behavioral and biological science
   
   i.e. Organic Chemistry

3. Take additional coursework to improve GPA
Helpful Links

• PA Focus: pafocus.org
• Central Application Service for Physician Assistants: portal.caspaonline.org
• American Academy of PAs: aapa.org
• California Academy of PAs: capanet.org
• Physician Assistant Education Association: paeaonline.org
• National Commission on Certification of Physician Assistants: nccpa.net
Questions?
Thank You!

Leslie Lim, MA
llim@ketchum.edu
(714) 992-7808
California School of Podiatric Medicine

David Tran DPM, MS
Assistant Professor
Associate Director of Admission
Director of Graduate Placement
Goals for Today

Brief Overview: Podiatry & CSPM
Pros and Cons of Podiatry
Day in the Life of a DPM
Q&A
Podiatric Medicine and Surgery: What’s It All About?
How Do You Become a DPM?

Four Years of Podiatric Medical School

Complete Board Exams

Three Years of Residency

Obtain License to Practice
9 Schools Nationwide

- Arizona (AZPod)
- Barry (BUSPM)
- California School (CSPM)
- Des Moines (DMU-CPMS)
- Kent State (KSUCPM)
- New York (NYCPM)
- Scholl-Rosalind Franklin (SCPM)
- Temple (TUSPM)
- Western (WUCPM)

- http://www.aacpmp.org/colleges/
California School of Podiatric Medicine
CSPM Strengths

Small class size (48)

Direct hands-on anatomy dissection (4/table)

Early 2\textsuperscript{nd} year clinical exposure/small clinical rotation groups

Face-to-face clinical time with faculty
CSPM Strengths

Diversity of patient population, ethnically and culturally

Highland Hospital—one of the busiest ER’s in the nation

Nationally recognized Biomechanics program

State of the art simulation learning
Motion Analysis Research Center (MARC)
Pros & Cons of Podiatry
Pros

You will NEVER be out of a Job

Less competition academically (changing…)

Better chance for residency training of your choice

Better Schedule

Good Income

Less Stress

Your patient loves you and can’t wait to see you
Cons

People think you have a foot fetish... but who cares...
Never Jobless

Profession always in demand
Shortage of practitioners

Currently < 19,000 DPMs Nationwide
(18,100 --> 2015** APMA)

Projected growth 2012 - 2022 → 23%

Faster than average (BLS – 2015) → 14% faster than average
Increasing DM Population

CDC 2014 report – 29.1M (25.8M in 2010)

8.1M undiagnosed (7M 2010)

86M pre-diabetics 2012 (79M 2010)

By 2030 estimated 552M will be DM

Cost of DM care = $245 Billion (2012)
Increasing DM Population

Diabetes Care
DM with DFU has a 5 year mortality rate increase of 47%.
>25% of all DM will develop DFU in their lifetime

78.6M are obese (CDC/JAMA - 2012)

Aging population (AOA/CDC)
2009: 39.6 million (13%) 65+
2030: 72 + million (20%) 65+
2050: 89 + million
## Academic Competition

<table>
<thead>
<tr>
<th>2015-16 Application Year</th>
<th>MD</th>
<th>DO</th>
<th>DPM*(14/15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicants</td>
<td>52,550</td>
<td>20,720</td>
<td>1194*</td>
</tr>
<tr>
<td>Admitted</td>
<td>20,631</td>
<td>6,592</td>
<td>674</td>
</tr>
<tr>
<td>Science GPA</td>
<td>3.45</td>
<td>3.38</td>
<td>3.20</td>
</tr>
<tr>
<td>Overall GPA</td>
<td>3.55</td>
<td>3.47</td>
<td>3.30</td>
</tr>
<tr>
<td>MCAT</td>
<td>28.3/31.4</td>
<td>26/499</td>
<td>21.2</td>
</tr>
<tr>
<td><strong>CSPM – 2016</strong></td>
<td><strong>Science</strong></td>
<td><strong>Overall</strong></td>
<td><strong>MCAT</strong></td>
</tr>
<tr>
<td></td>
<td>3.14</td>
<td>3.3</td>
<td>24/497</td>
</tr>
</tbody>
</table>
Earning Potential

2012 Report
Median: $247K (range $125 - $500K) - (Pod. Management - 2012)
Median: $119,340 (25th % - $167,500) – (BLS - 2015)
Kaiser $175K - $225K (2012)

Liability insurance: less $10K

Medscape 2014 Salary/Debt Report
Average Resident’s Salary (2014 Report): $55,300.00
AAMC: Four year Cost of tuition ~$278K (private) vs. ~$208 (public)
Residency Shortage—MD/DO

Surgical Residency shortage → constantly changing

Students need to do due diligence research on subject

May have to choose a specialty that is not 1st choice
A Day in the Life of a DPM
What Problems Do DPMs Treat?

- Trauma/Fractures
- Metabolic disorders e.g. Diabetes
- Neurological disorders
- Musculoskeletal disorders
- Vascular disorders
- Cutaneous disorders

“The Unhappy Foot…”
Neuroma/Heel Pain/Derm

Plantar Fasciitis

Plantar wart
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Neuroma/Heel Pain/Derm
Trauma
Trauma
Trauma
Trauma
Trauma
Trauma
Trauma
Trauma
DPMs Convert Unhappy Feet Into
Questions & Answers