Guiding the Health Professions Student:

2017 Conference Presentations

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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. csulb.edu/colleges/cnsm/sas/hpao/counselors.html



Lunch

Boxed lunch will be available in Sunset B*

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

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

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



${\bf Sponsor\ Thank\ You:}$

Bags and drinks provided by

49er Shop

Guiding the Health Professions Student:

A Conference for Community
College Counselors

Friday, September 29, 2017



WHITAKER HEALTH PROFESSIONS ADVISING OFFICE

College of Natural Sciences and Mathematics

California State University, Long Beach

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.

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.

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 $\underline{SUNSET\ B}$

California School of Podiatric Medicine at Samuel Merritt University <u>SUMMIT</u>



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

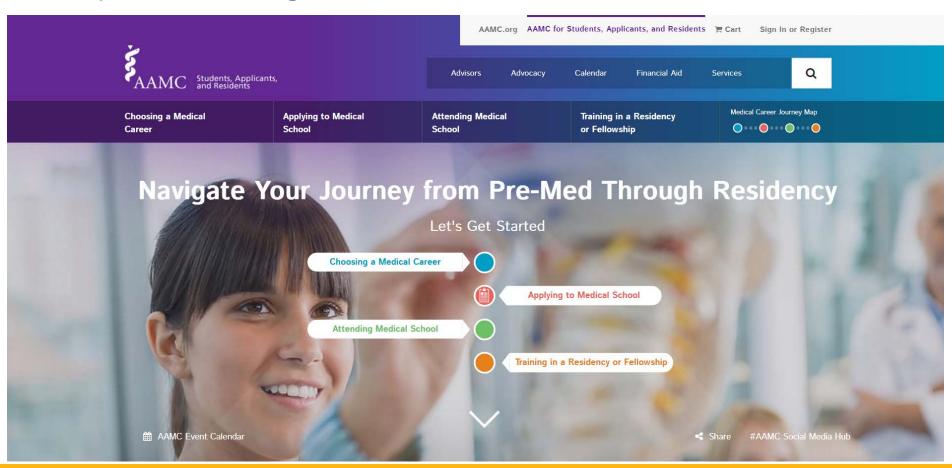
https://aamc.org/advisors/





Resources - Students

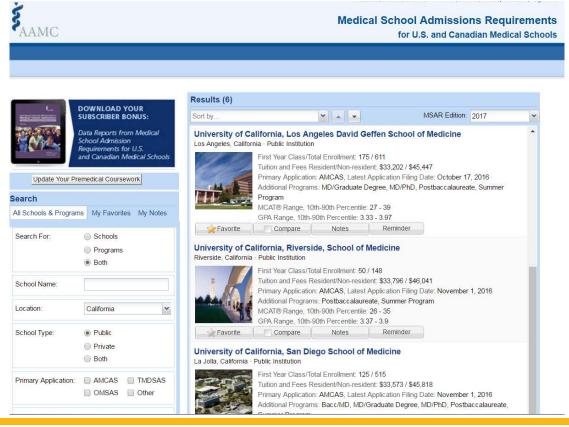
https://aamc.org/students





Resources & Publications

- Medical School Admissions Requirements (MSAR)
 - https://aamc.org/msar





Core Competencies for Entering Medical Students

<u>Interpersonal</u>

- Service Orientation
- **❖**Social Skills
- Cultural Competence
- **❖**Teamwork
- Oral Communication

<u>Intrapersonal</u>

- Ethical Responsibility to Self and Others
- Reliability and Dependability
- Resilience and Adaptability
- Capacity for Improvement



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

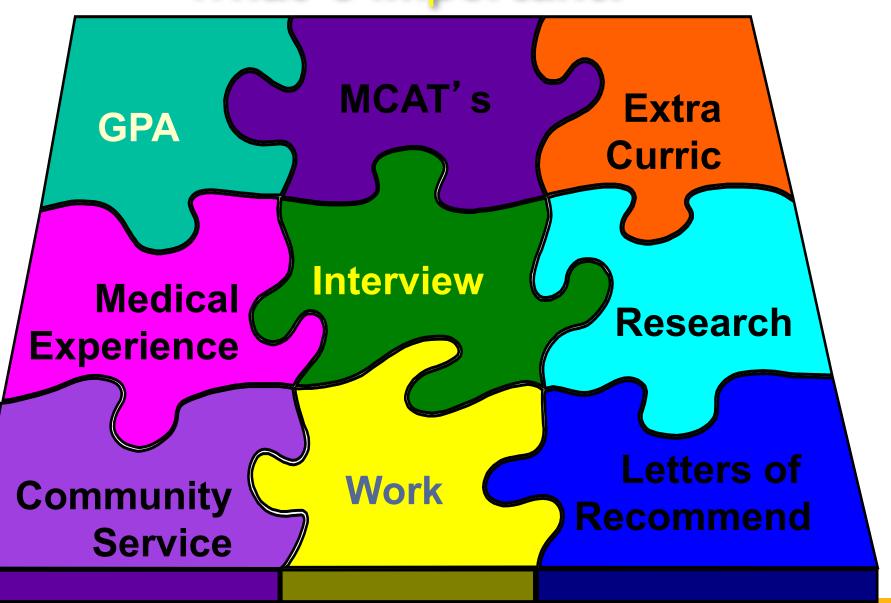


Basis of Selection for Medical School at UCLA-Holistic Review

- Academic preparation
 - Undergraduate, Postbaccalaureate, Graduate Record
 - **♦**MCAT
- Development of personal attributes
 - ❖Life Experiences
- Application process
 - Secondary
 - Letters of Recommendation
- Interview

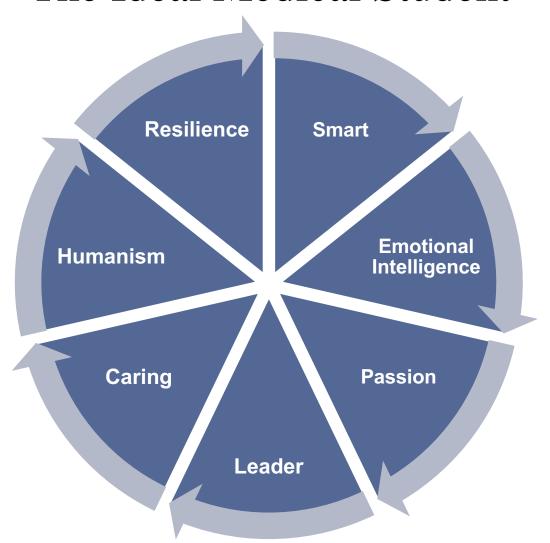


What's Important?





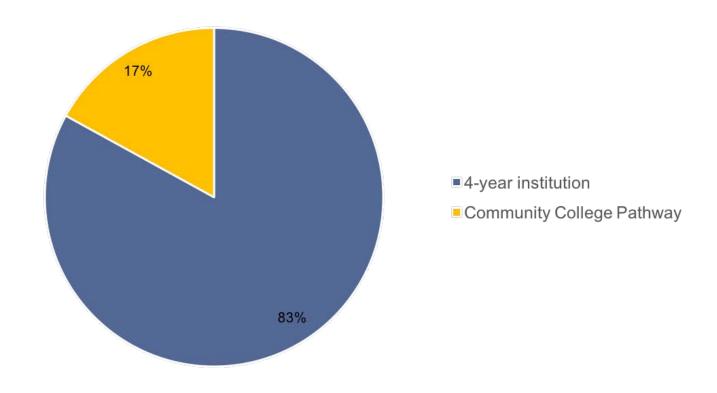
The Ideal Medical Student





Community College Pathway

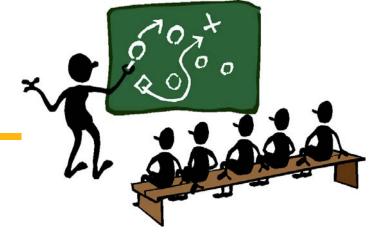
DGSOM UCLA Medical School Class of 2021





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 Graduate School

Evan Blair

Assistant Director, Graduate Admission & Recruitment



Challenge Question 1



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.

^{*} Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2016-17 Edition, Audiologists, on the Internet at https://www.bls.gov/ooh/healthcare/audiologists.htm (visited September 22, 2017).



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)

^{*} Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2016-17 Edition, Speech-Language Pathologists, on the Internet at https://www.bls.gov/ooh/healthcare/speech-language-pathologists.htm (visited September 24, 2017).



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



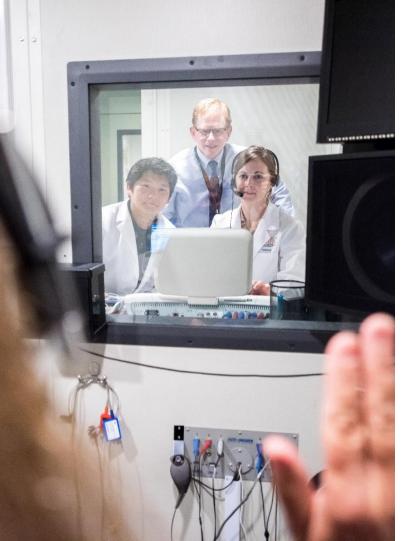


Above and Beyond AuD & SLP



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

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go.pacific.edu/graduate

Facebook / pacificgradadmission





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

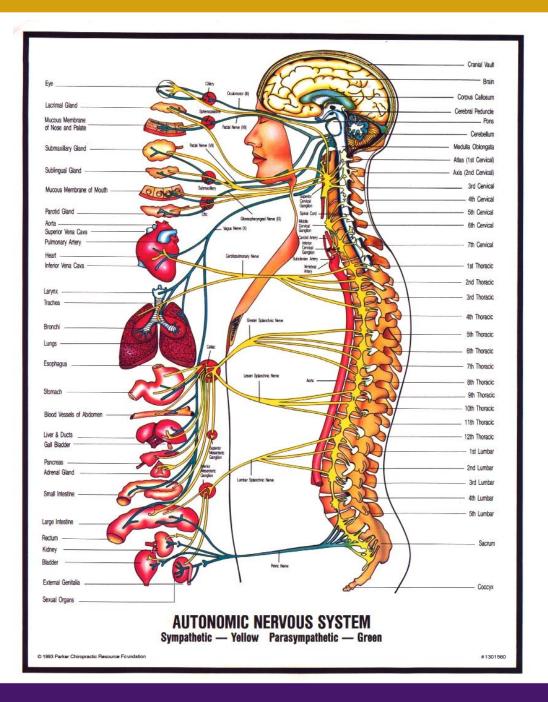


The total number of prescriptions filled by all Americans, including adults and children, has increased by 85 percent over two decades, while the total U.S. population has increased by only 21 percent.



Source: Quintiles IMS.

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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.





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.



The Trusted Leader in Chiropractic Education*

Source:

2016 Gallup-Palmer College of Chiropractic Annual Report: Americans' Perceptions of Chiropractic (08/16)

KNOW THE RISKS OF SERIOUS SIDE EFFECTS/DEATH Spine ASSOCIATED WITH COMMON TREATMENTS FOR MUSCULOSKELETAL PAIN

1,800PER

1 MILLION







Prescription



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

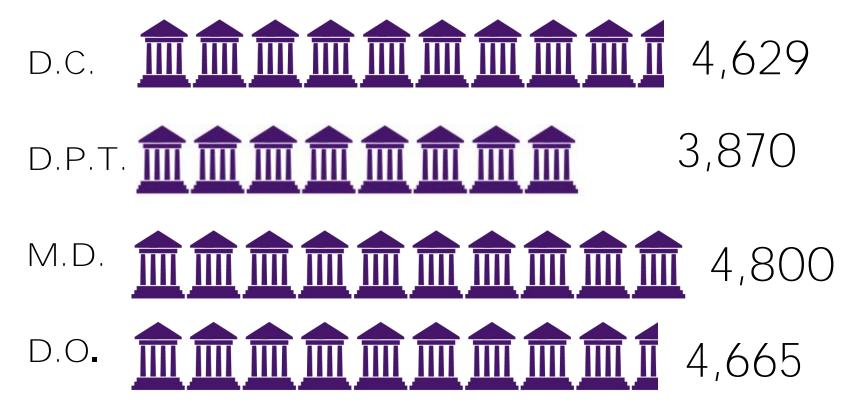
- Toxicology
- Physiotherapy
- Cervical Technique
- Biomechanics
- Intro to Clinical Practice
- Obstetrics & Pediatrics
- Pelvic Technique
- Clinical Nutrition
- Differential Diagnosis
- Subluxation Analysis

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







Anatomy Hours - Comparison



Physiology Hours - Comparison

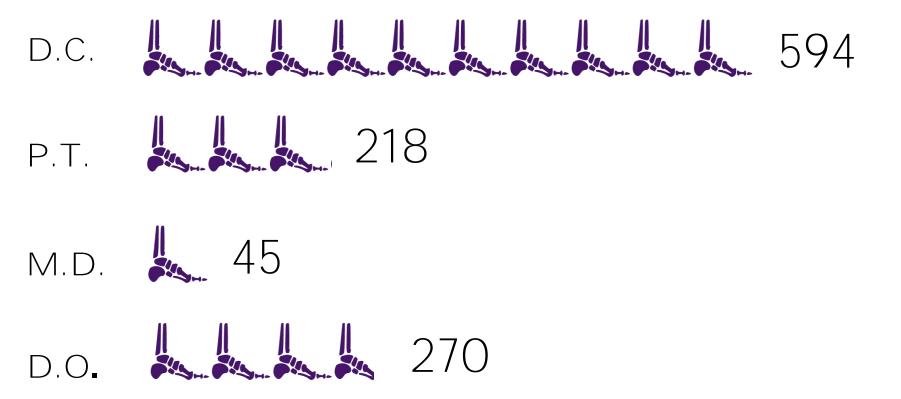


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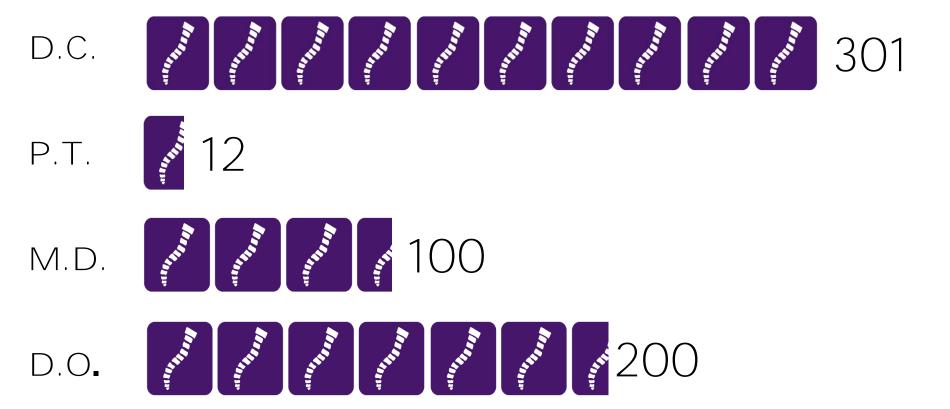
M.D. @@@@@@@@@@@ 420

D.O. 450

Orthopedic Hours - Comparison



Diagnostic Imaging (Radiology) Hours - Comparison



Chiropractic Job Outlook

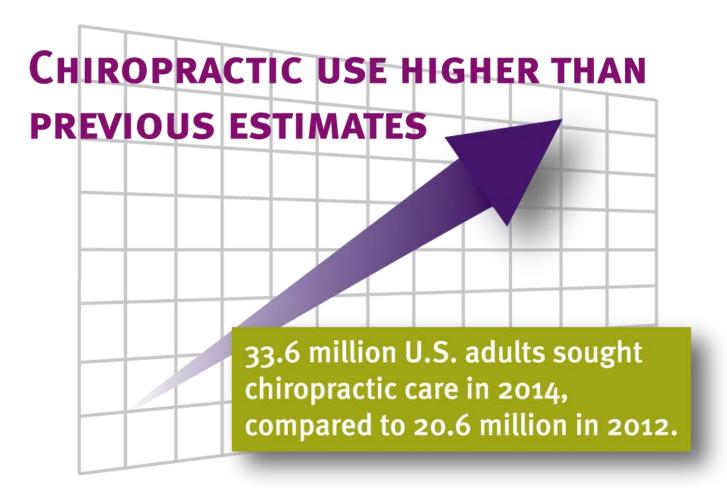


Chiropractic employment is projected to grow faster than the average for all occupations.

Change in employment now through 2024.

Source: U.S. Bureau of Labor Statistics, Employment Projections Program, 2014-2015







The Trusted Leader in Chiropractic Education*

Source: 2015 Gallup-Palmer College of Chiropractic Inaugural Report: American's Perceptions of Chiropractic (08/15)



CHIROPRACTIC EMPLOYMENT OUTLOOK

A good investment



COMPETITIVE SALARIES,



STRONG JOB GROWTH PREDICTED,

ALL JOBS

6.5%

17%



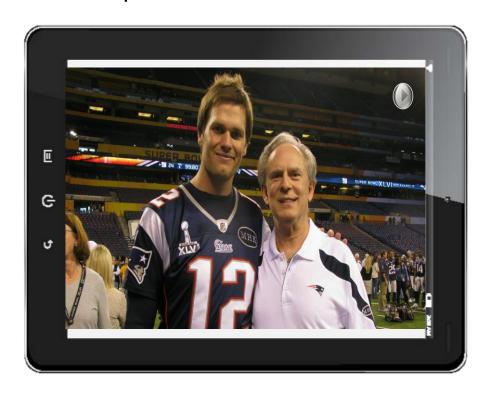
Health career with options

- 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.

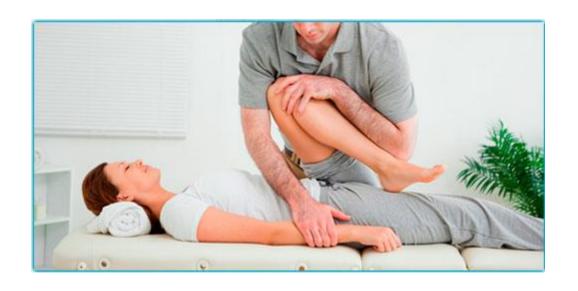


Dr. Bill Moreau Olympic Chiropractor



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



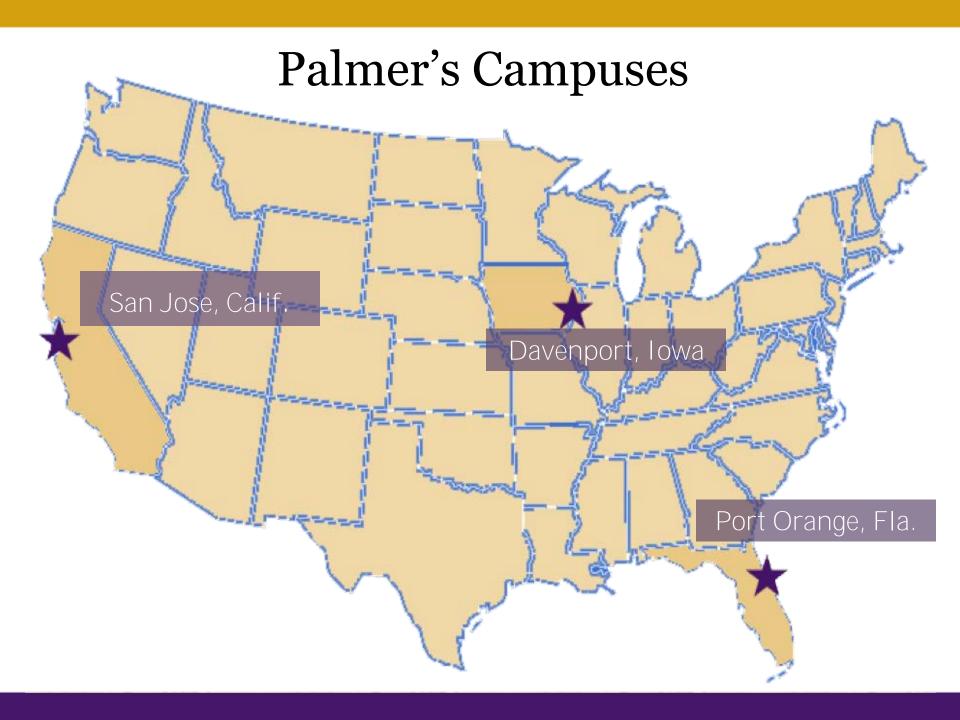
For your career, you:

- 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





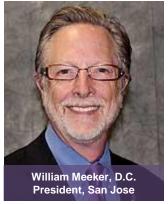
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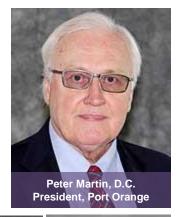


Value of a Palmer education



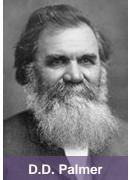






The first and largest chiropractic college

Foundation to foreword thinking











World's largest chiropractic research center

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



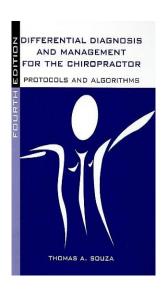
Center for Business Development

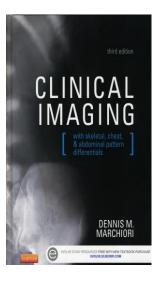
Providing students and alumni with the business skills they need to build a successful career in chiropractic.



Palmer faculty wrote the books

Read their textbooks at other colleges ... be taught by them at Palmer.



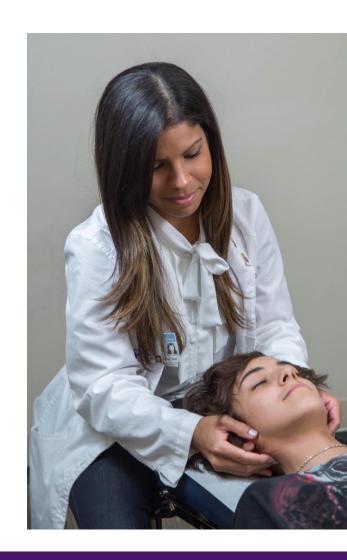


The Palmer Advantage: Technique

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





Helping you succeed

Palmer students perform well above Council on Chiropractic Education benchmarks for the National Board of Chiropractic Examiners exam.

Student Scholarships



*awarded through 4/30/16



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



Student-loan Default

Rates

National 4-Year Public Colleges (2012)

National 4-Year Private Colleges (2012)

Chiropractic Colleges (2012 average)

Palmer College

2.1% 4.2% 7.6% 6.3%



The Trusted Leader in Chiropractic Education*

Source:

2015-2016 Palmer College of Chiropractic Annual Report www.palmer.edu/report/15-16 (7/16)





Palmer College earns top scores in study by Brookings May 6, 2015

In a <u>new study by the Brookings Institution</u>, 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

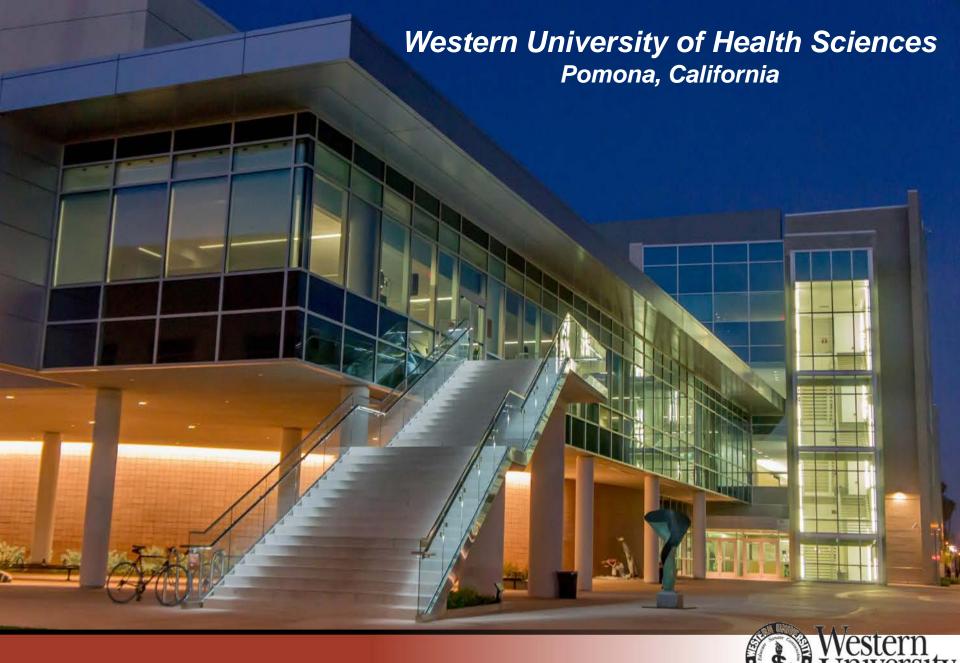














The discipline of learning. The art of caring.

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

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.









Intelligent Learning Path









Anatomage

Virtual Dissection

oculus



zSpace





Anatomage [AB] Virtual Dissection



- 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.



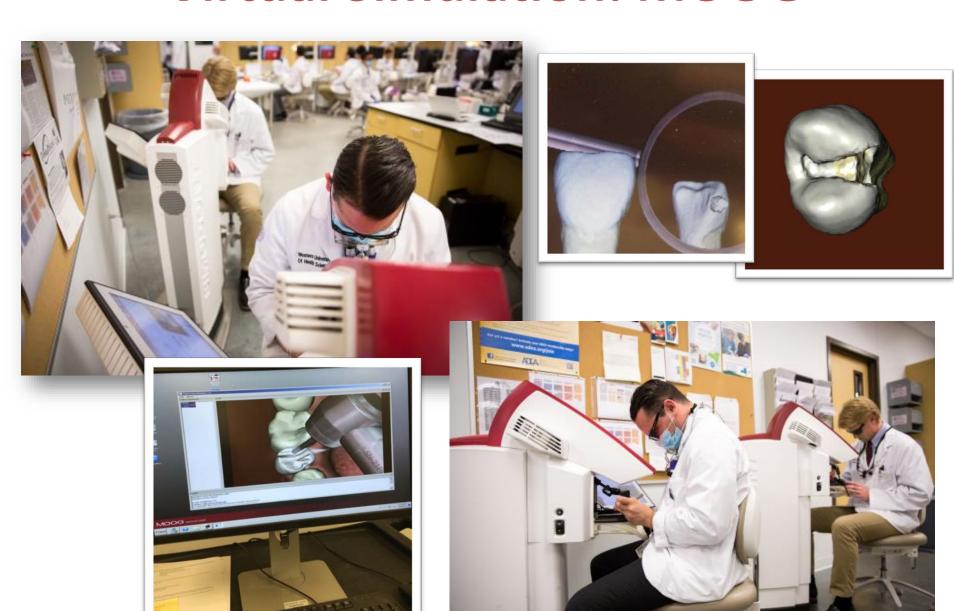
Our Mission:



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



CADCAM Technology by E4D

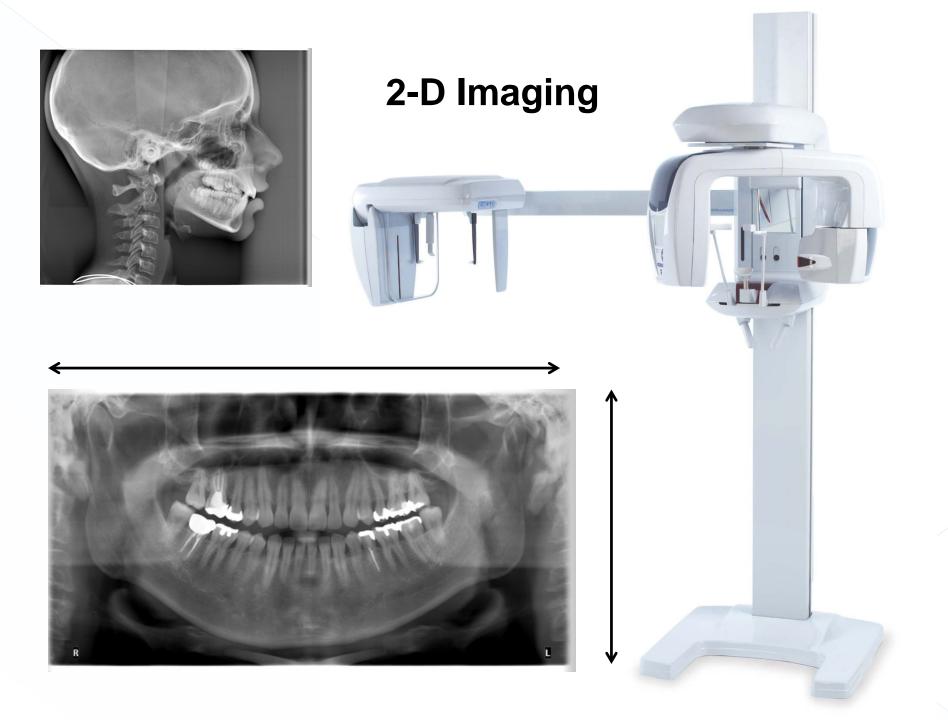






CERTIFIED PROVIDER

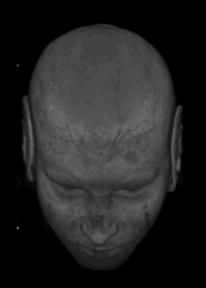




Axial

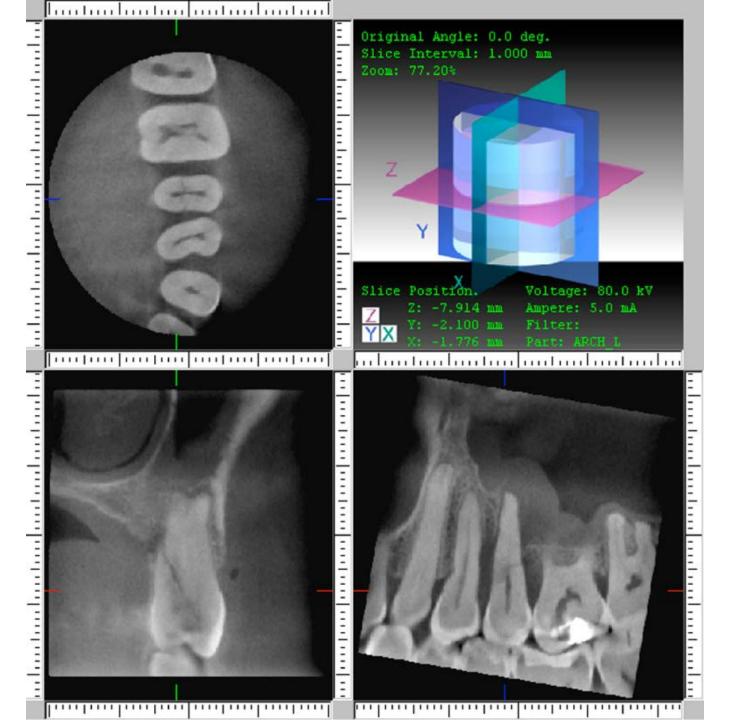
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Basic and Biomedical Sciences

Dental Sciences

Interprofessional Education

Comprehensive Patient Care

Basic and Biomedical Sciences (NDBE 1)

Dental Sciences

Interprofessional Education

Comprehensive Patient Care

Basic and Biomedical Sciences (NDBE 1)

Dental Sciences (NDBE 2)

Interprofessional Education

Comprehensive Patient
Care

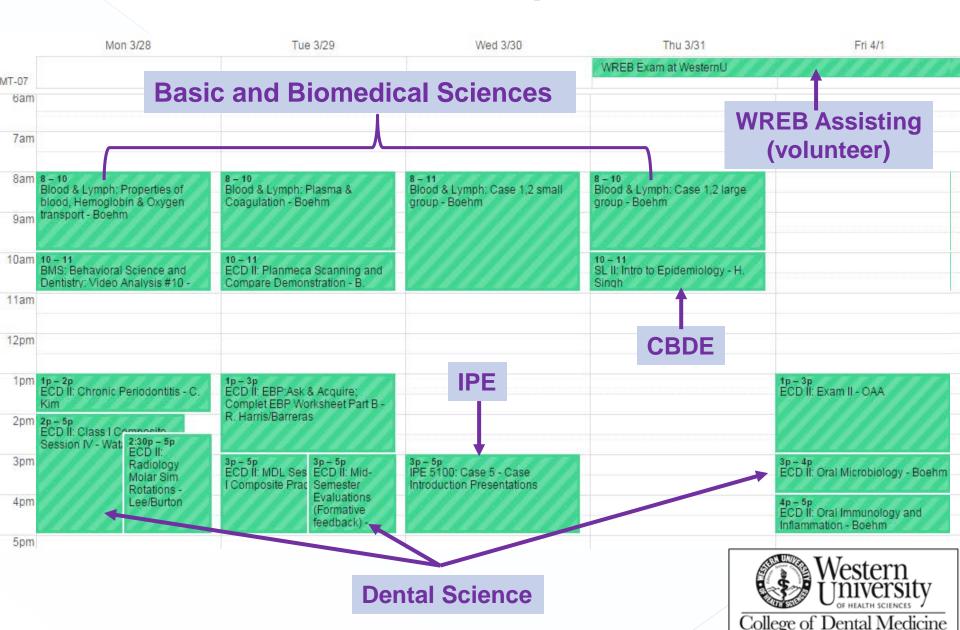
Basic and Biomedical Sciences (NDBE 1)

Dental Sciences (NDBE 2)

Interprofessional Education

Comprehensive Patient Care (State Licensure Exam)

A week in the life of a first year dental student



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



Western U Class of 2021 GPA Averages and DAT Mean Scores

AADSAS Applications Received = 2,994

Interviews Granted = 373

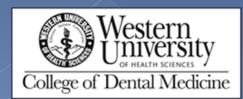
- Average GPA:
 - Science GPA = 3.28
- DAT Average Scores:
 - Perceptual Ability = 20
 - Total Sciences = 20
 - Academic Average = 20
 - Reading Comprehension = 21
- Class Size = 69





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)
 - Seneral 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



Community Service

Exposure to Dentistry

AADSAS Personal Statement





Thank you!



Pathways to Nursing

Catherine Wilde McPhee, FNP

Azusa Pacific University School of Nursing

Assistant Professor and Academic Practice Partnerships & Clinical Placements



Link to Video

https://www.youtube.com/watch?v=U7JW24WWPK8





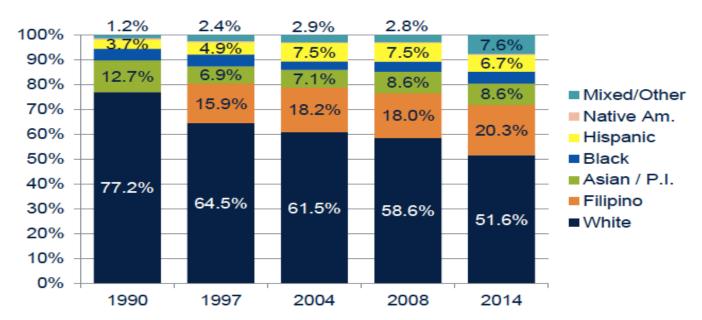
Value of Diversity

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

Accreditation & Distinctive

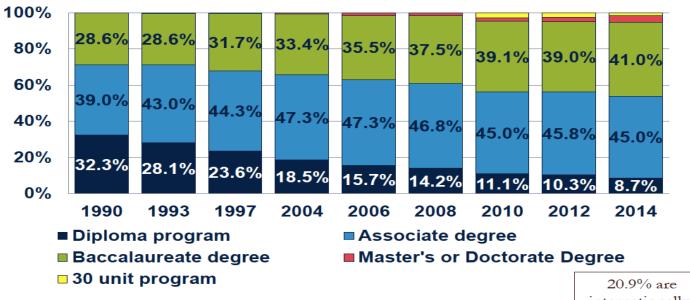
- Approved by California BRN
- Accredited by CCNE & WSCUC
- School of Nursing named 8th in the nation by *USA*Today for 2015-16
- 13:1 student-to-faculty fatio
- Personable faculty currently in the field

Racial/ethnic mix of working RNs





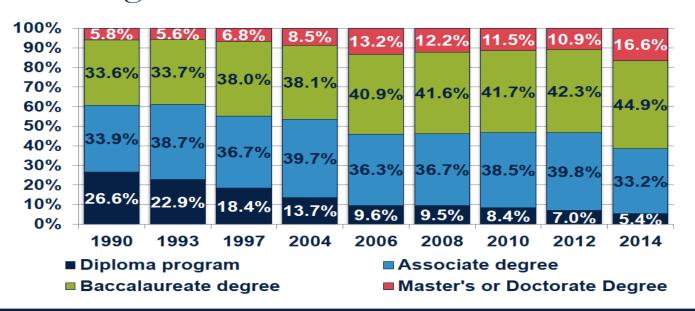
Initial nursing education for working RNs



20.9% are internationally-educated

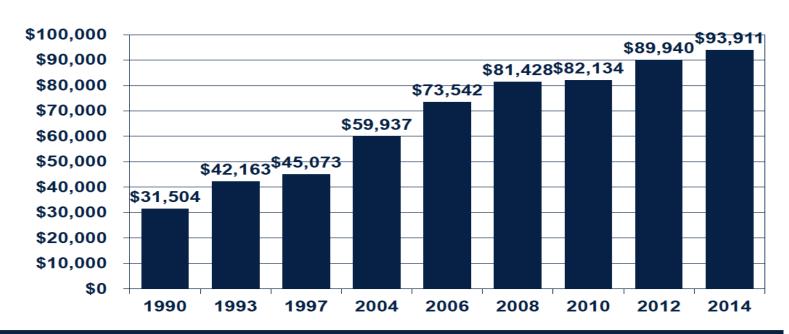


Highest level of nursing education of working RNs





Average income from all nursing positions





Plans for next 5 years for working RNs





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

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

^{*} 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



Concepts for Counselors



- 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





USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy





Amber Bennett, OTD, OTR/L

Assistant Director of Admissions

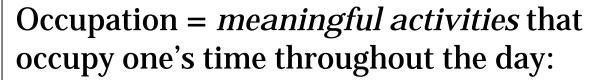
Assistant Professor of Occupational Therapy

USC Mrs. T.H. Chan Division of Occupational Science & Occupational Therapy

University of Southern California



Occupation al Therapy



- 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

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 - Director of Admissions
 - Phone: (323) 442-2822
 - E-mail: carley@chan.usc.edu



- Amber Bennett, OTD, OTR/L
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 - 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

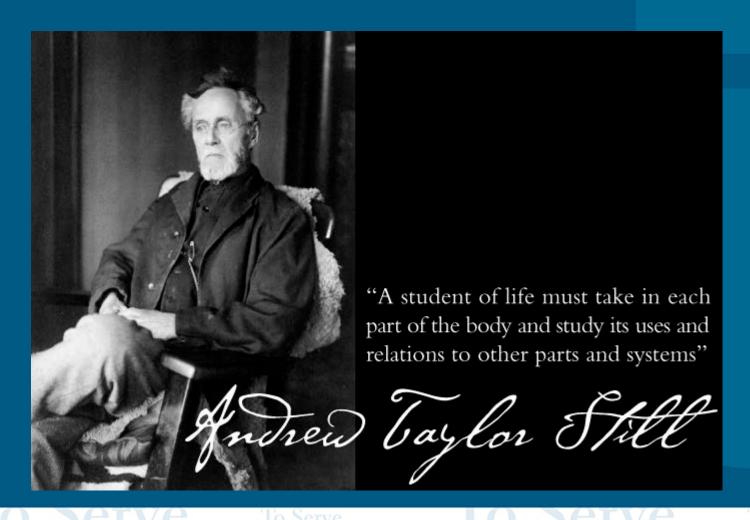




Osteopathic Medicine: Philosophy, School & Career

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

Osteopathic Philosophy



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 <u>ready</u> 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

Student DOSA	Faculty	Academic	Final
ProfessionalismCommunicationInterest	 Experience Critical Thinking Understanding the Role Interpersonal 	MCATGPAUpper Division Science	FacultyMACDeans

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-

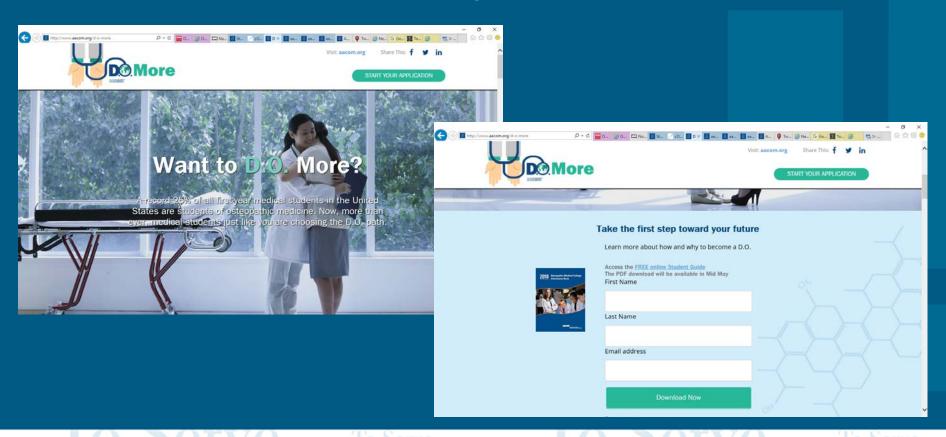
- Census Data:
 - Population decline (less babies were born) for next four years.
 - Decline in those pursing a bachelor's degree.
 - More career options for less time and money.

Diversity Focus-

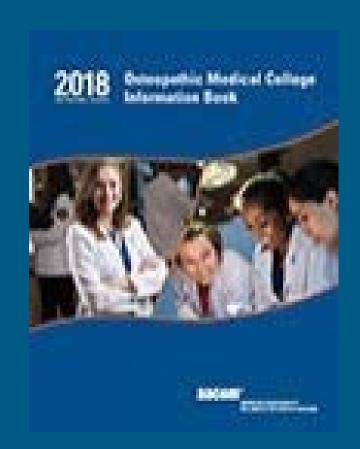
- COCA- Will start to collect and be more diligent with the data.
- AACOM- Added Diversity Statement
- TUN- Added Diversity Policy

D.O. More

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



Osteopathic Medical College Information Book

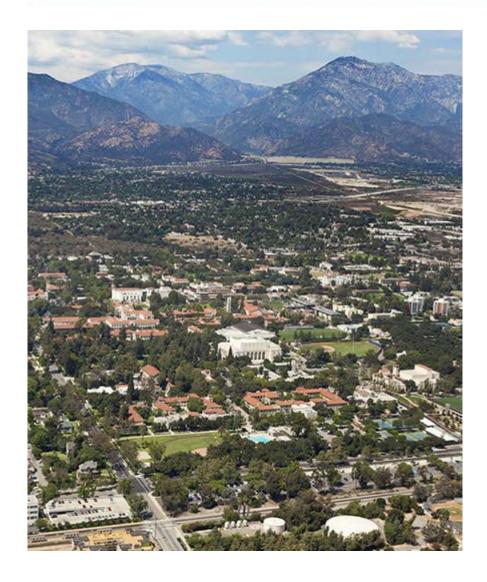


Resources

- http://www.aacom.org/reports-programsinitiatives/aacom-reports#Latest
- http://www.aacom.org/become-a-doctor
- http://www.aacom.org/d-o-more







Claremont, CA

(III) SCRIPPS

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





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



KGI PharmD

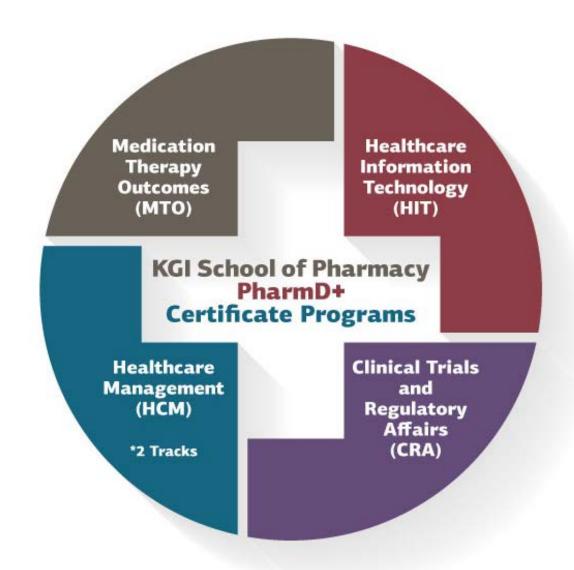
Pharmacists Help People Live Healthier, Better Lives

Pharmacists Do This Through a Variety of Career Options



Discover the KGI PharmD +

KGI School of Pharmacy
PharmD+
Certificate Programs





Exploring PharmD Career Paths: Clinical Trials and Regulatory Affairs



(CRA)

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 Informatacist
- 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



Exploring PharmD Career Paths: Medication Therapy Outcomes



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

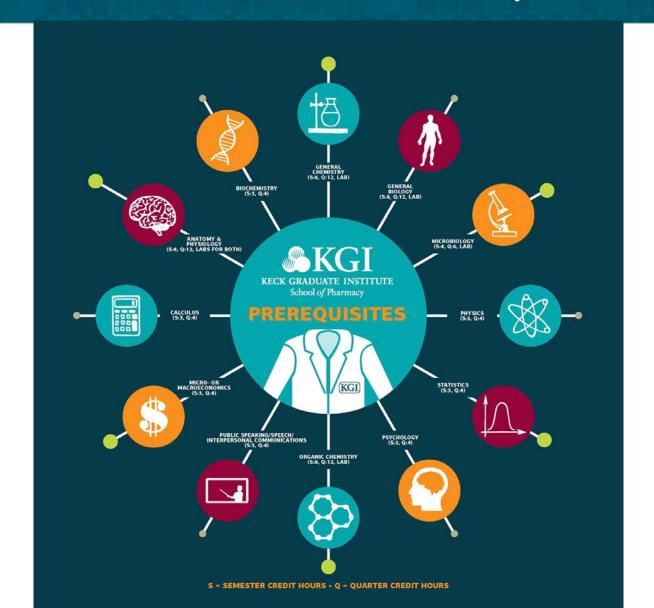


PharmD Career Exploration

- 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





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.



KGI PharmD - How to Apply





www.pharmcas.org



KGI PharmD – Important Updates

- 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 <u>apply early</u> 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).





Genetics at KGI

Why is studying Genetics Important?

- Determine ways to <u>better predict</u> disease.
- Improve the <u>welfare of humanity and</u> $relieve suffering^{1}$.



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)





More About Genetic Counseling at KGI

What do Genetic Counselors do?

- Genetic Counselors <u>provide risk assessment, education, and</u> <u>support to</u> individuals and families with or at risk <u>for inherited</u> <u>conditions</u>.
- As the genetics experts within the healthcare team, Genetic Counselors have the opportunity to work in a <u>variety of specialties</u> such as <u>prenatal</u>, <u>pediatric</u>, <u>adult disease</u>, <u>cancer</u>, <u>industry/lab</u>, <u>and specialty clinic</u>.
- <u>Employment settings</u> 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 <u>rapidly growing</u> <u>field</u>, with an estimated 29% growth rate expected by 2024.





More About Genetic Counseling at KGI

Where are the KGI Genetic Counseling Clinical Rotations?









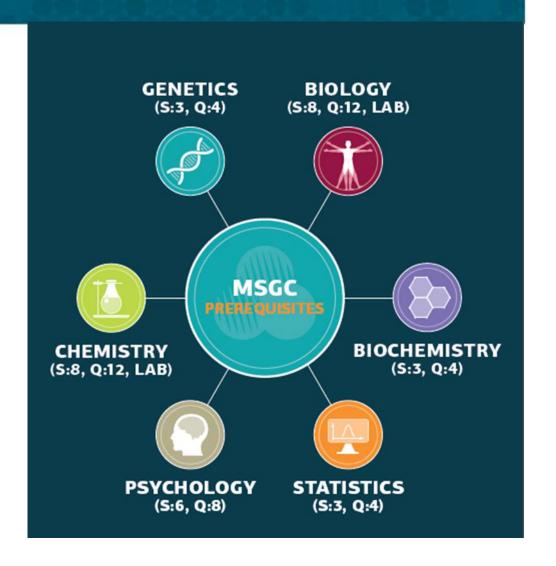






KGI Genetic Counseling (MSGC) Admission Requirements

- 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





More About Genomic Data Analytics at KGI

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 a *Clinical Variant Curators*



Genomic Data Analyst

Find Jobs

job title, keywords or company

↑ Upload your resume - Let employers find you

Jobs 1 to 10 of 209

Show: all jobs - 32 new jobs

Statistical Genetics Analyst

Regeneron - **** 84 reviews - Tarrytown, NY

The RGC hosts a vast amount of data encompassing thousands of phenotypes derived from electronic medical records, integrated with genomic data....

Sponsored - save job

Bioinformatics Analyst

Ancestry - ★★★★☆ 47 reviews - San Francisco, CA

The candidate must have experience working with genomic data and building genomic and bioinformatics pipelines....

Sponsored - save job



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.



CAREERS

Diseases / Research

Treatment / Support

About Us

CAREERS START HERE: LEARN MORE >

Data Analyst SCHARP, Clinical Data

Job ID Fred Hutchinson Company

Cancer Research

Clinical Research Support Services

Center

Location

Regular Full-Time US-WA-Seattle

More information about this job

Overview

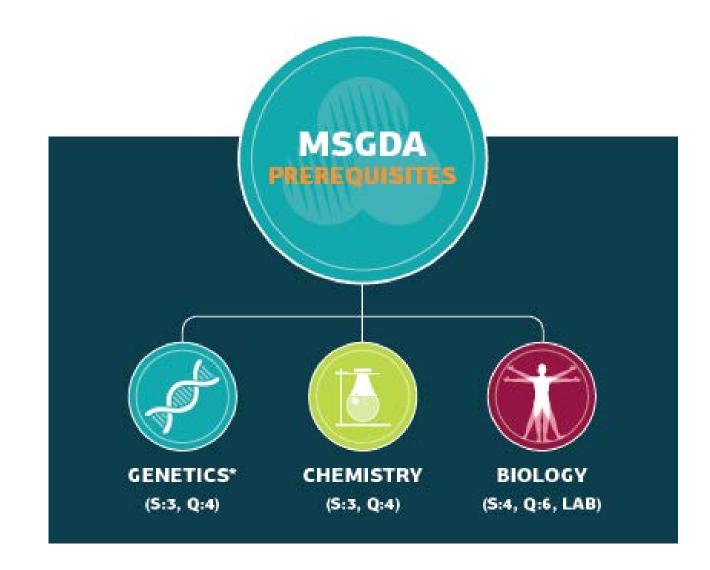
Category

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 – What Will You Study?

Genetics at KGI - Year 1

<u>Common Courses such as:</u> 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 - Summer

Genetic Counseling Summer:

 Genetic Counseling Fieldwork

Genomic Data Analytics Summer:

 Experience in human genomic data analysis in industry or clinical laboratory settings

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



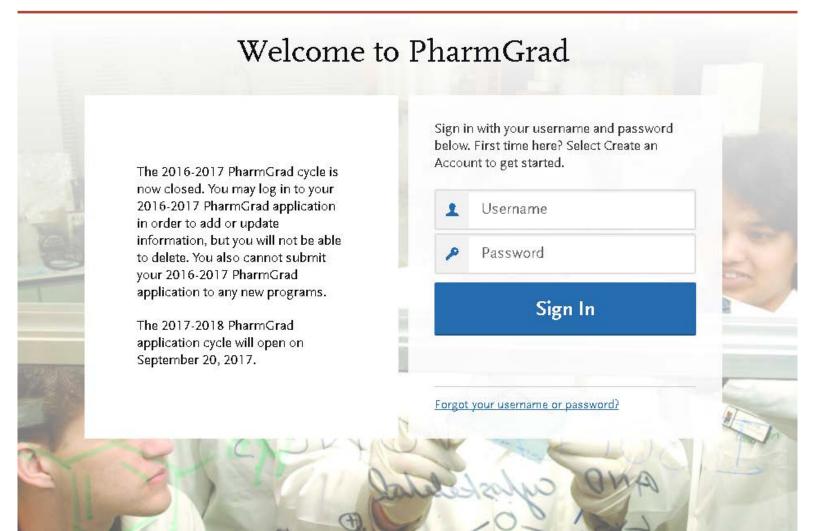
Why Pursue Graduate Study in Genetics at KGI?

- 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.



Genetics at KGI - How to Apply







Genetics at KGI – Application Process and Deadlines

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. <u>All</u> <u>Genetic Counseling applicants</u> <u>should register online to</u> <u>participate in the 2018 Match</u> 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.



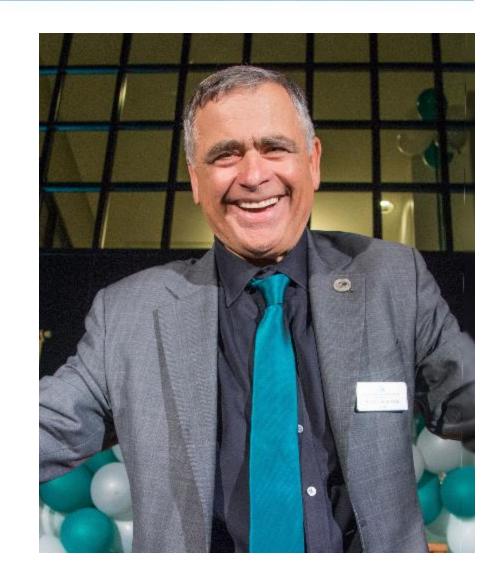
What is the BEST way to learn more?



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





Supplementary Materials - PharmD

Visit <u>pharmacyforme.org</u> 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!

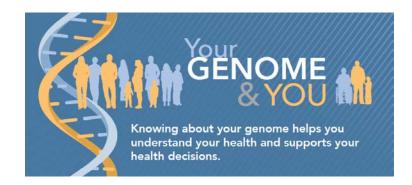






Supplementary Materials - Genetics

Supplementary materials help spread awareness about <u>Genetic Counseling</u> and Genomic Data Analytics.

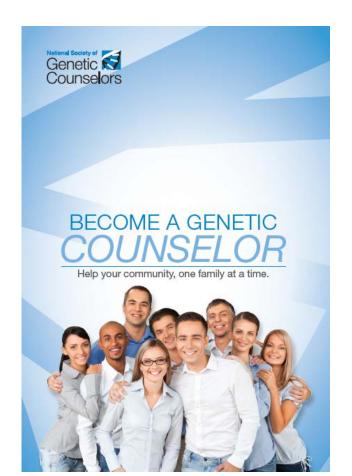


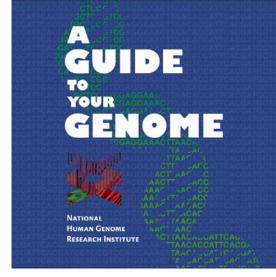


National DNA Day commemorates the completion of the Human Genome Project in April 2003 and the discovery of the double helix of DNA in 1953. Next year's DNA Day will be on **Wednesday**, **April 25**, **2018**. We encouraged teachers and students around the world to celebrate by participating in the American Society of Human Genetics' (ASHG) 13th Annual DNA Day Essay Contest!

This contest is open to students in grades 9-12 worldwide and asks students to examine, question, and reflect on important concepts in genetics. Essays are expected to be well-reasoned arguments indicative of a depth of understanding of the concepts related to the essay question. They are evaluated by ASHG members through three rounds of scoring.

If you have any questions, email DNA Day.





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



Discussion

What can we as professional schools do to further open doors for your students?







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
- Human Anatomy & Physiology
- General Chemistry
- General Physics
- Statistics
- Psychology

- 2 semester/3 quarter
- 2 semester/3 quarter
- 2 semester/3 quarter
- 2 semester/3 quarter
- 1 semester/1 quarter
- 1 semester/1 quarter

Prerequisite Courses at CSULB

CSULB Course	Description	Semester Units	
Biology 208	Anatomy	4	
Biology 211 & 212	General Biology I & II	4,4	
Biology 213 or 207	General Biology III or human Physiology	4,4	
Biology 260	Biostatistics	3	
Chem 111 A& B	General Chemistry	5,5	
Physics 100 A & B	General Physics	4,4	
Psy 100	General Psychology	3	

Prerequisite Courses *****

- All biology, chemistry and physics courses <u>must</u> have a lab section
- Biology & Chemistry sequence <u>must</u> 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 \geq 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 <u>not</u> 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 <u>no later than one month prior to the PTCAS deadline</u> 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**
- $\sqrt{\text{Overall GPA} ≥ 3.0}$
- \checkmark Completed prerequisite courses with ≥ 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



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 \geq 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





DPT Curricular Sequence

CSULB DPT Curricular Sequence						
	Summer Session I, Year 1			Summer Session III, Year 1		Units
DPT 701a	Anatomy I	2		DPT 701b	Anatomy II	2
DPT 704	Tissue Mechanics	2		DPT 703	Neuroanatomy	3
DPT 720	Prof Interactions	3				
		7				5
Fall, Year 1				Spring, Year 1		
DPT 705	Biomech Principles	3		DPT 709	Ex Science	3
DPT 706	Physiology	6		DPT 710	Pathology	3
DPT 707	Lifespan	2		DPT 735	Gait	2
	anatomy III	2		DPT 732	MS exam	3
DPT 721	Prof Practice issues	2		DPT 740	Neuro Exam	2
DPT 708	Motor control/Irng	2		DPT 731	Acute care principle	2
		17				15
Summer Session I, Year 2				Summer Session III, Year 2		
	Imaging	2		DPT 722 Critical Thinking		1
DPT 765	Mgmt Integ	2		DPT 781 I		2
DPT 796	Research Methods	2			Ortho practice I	1
DPT 751	Pharmacology	2		DPT 752	Diff Dx	2
		8				6
Fall, Year				Spring, Year 2		
DPT 733	MS Interventions	4		DPT 734	Advance mgmt MS	2
DPT 741	Neuro Intervent I	3		DPT 736	Prosthetics & Ortho	2
DPT 743	ENMG I: peripheral	2		DPT 744	ENMG II: central	2
DPT 760	Mgmt CardoPulm	3		DPT 745	Mgmt Peds	3
DPT 770	Health Care Deliver	2		DPT 767	Mgmt Geri	2
DPT 782	Neuro practice I	1		DPT 771	Health Care Del II	2
DPT 797	Doctoral Project	1		DPT 783	Neuro practice II	1
				DPT 797	Doctoral Project	2
		16				16
Summer S	Session 2, Year 3					
DPT 784	12 wk clin internshi	6				
		6				
Fall, Year 3				Spring, Ye	ear 3	
Fall: First	10 weeks					
DPT 742	Advanced Mgmt NN	2		DPT 786	12 wk clin internshi	6
DPT 737	Sports PT	2				6
DPT 768	Pathophysiology	3				
DPT 769	Advanced Mgmt CP	1				
DPT 797	Doctoral project	1				
DPT 780b	Ortho practice II	1				
	weeks/Winter					
DPT 785	12 wk clin internshi	6		Graduate spring. Total units:		118
		16				
			I			

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**



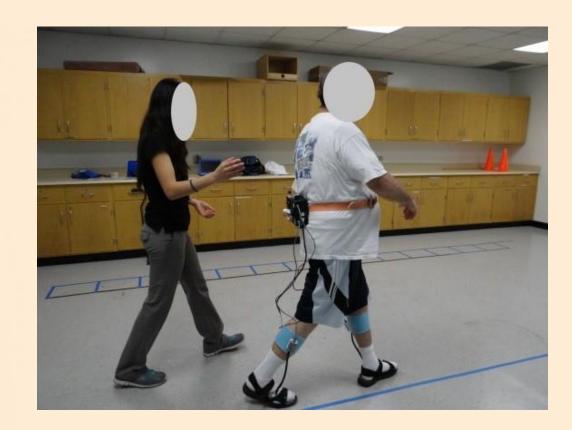


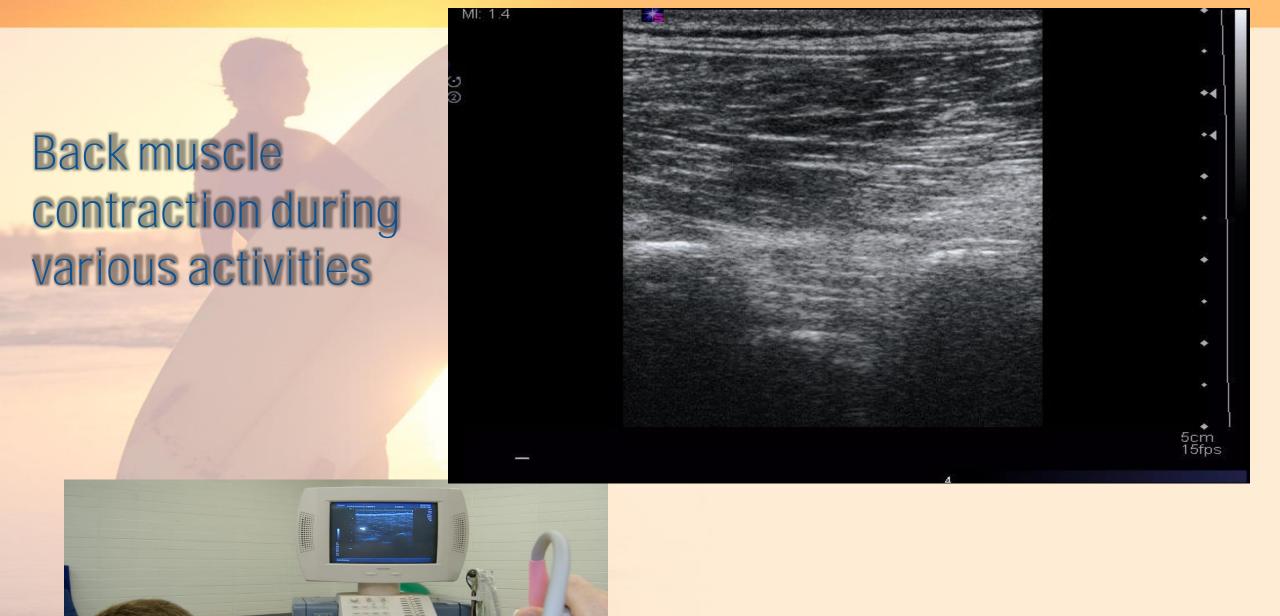
Pathokinesiology Lab





Clinical Rehabilitation and Biomechanics (CRAB) Laboratory





Gait and Fall Prevention Lab

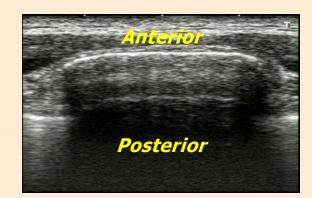






Sternal Separation







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





Take the Boards

National Physical Therapy Examination (NPTE) Pass Rates

CSULB Cohort	CSULB 1 st time pass rate	National avg. for 1 st time pass rate	CSULB Ultimate pass rate (one or more attempts)
Class of 2014	100%	91%	100%
Class of 2015	100%	93%	100%
Class of 2016	100%	93%	100%
Class of 2017	97%	93%	100%*

National Physical Therapist Licensure Exam

Graduation and Employment Rate

Outcome	Class of 2014	Class of 2015	Class of 2016	Class of 2017
Graduation	94%	92%	93%	92%
Employment	100%	100%	100%	100%

^{*}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 complettion.

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



Contact Information

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Michelle Ramirez

Admissions and Clinical Education Coordinator

Michelle.Ramirez@csulb.edu

Gloria Dacanay

Department Coordinator

Gloria.Dacanay@csulb.edu



Marshall B. KETCHUM UNIVERSITY

School of Physician Assistant Studies

Pursuing the PA Profession

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

Sept 29, 2017

History of the PA profession

History — 50 Years of Quality Healthcare

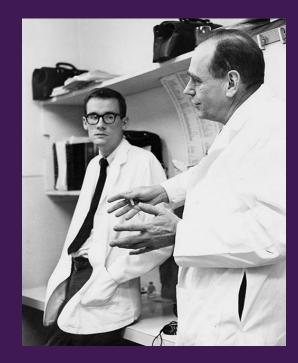


1967

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

2016

» Today, PAs practice in every medical specialty and clinical setting







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 Deliver the Healthcare Patients Need, When and Where They Need It

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



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
- U.S. Bureau of Labor Statistics (U.S. Department of Labor, Occupational Outlook Handbook, 2012-2013 Edition, PAs)
- 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.

Forbes

YOUNG INVINCIBLES

Jglassdoor

#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.

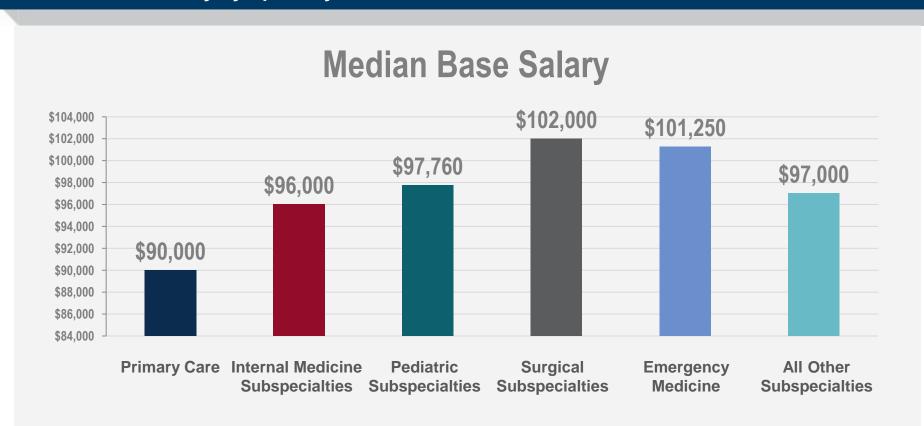
[]glassdoor



Salary

First-year PAs in California earn a median salary of \$100,000 annually.

All PAs: Base Salary by Specialty*



^{*}The data reflect clinically practicing PAs who worked 32 hours or more per week in 2015. Source: 2016 AAPA Salary Report





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

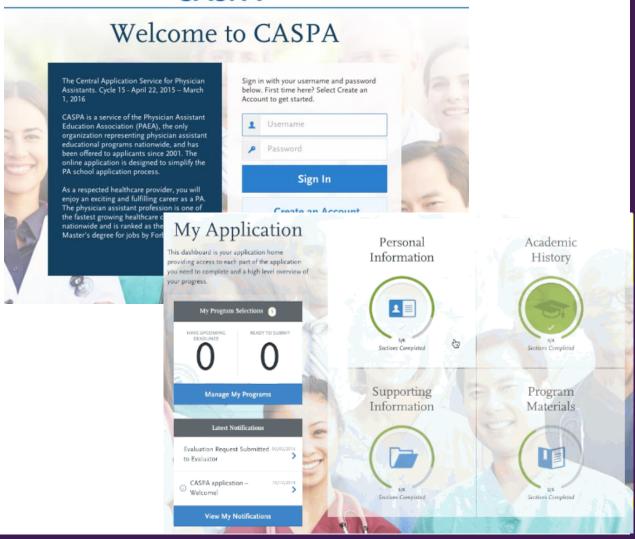
The Application Process

Apply to school through CASPA Admissions **Committee** Matriculation review applications for **Interviews** Oncampus **Interview**



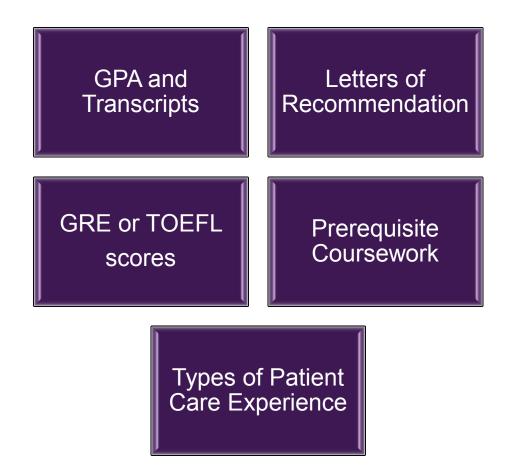
Centralized Application Service (CAS)

CASPA



- Most of the schools will accept applications through CASPA
- Complete one application and send one set of documents to all the PA programs
- Many program use the calculated CASPA GPA
- Application cycle opens in April each year
- Applications are submitted one year prior to the year a student plan to attend

Requirements will vary from each individual PA school:



The majority of PA programs have the following prerequisites:

- Chemistry
- Physiology
- Anatomy
- Microbiology
- Biology

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

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?

- 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



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.aacpm.org/colleges/



CSPM Strengths

Small class size (48)

Direct hands-on anatomy dissection (4/table)

Early 2nd 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

Health Science Simulation Center

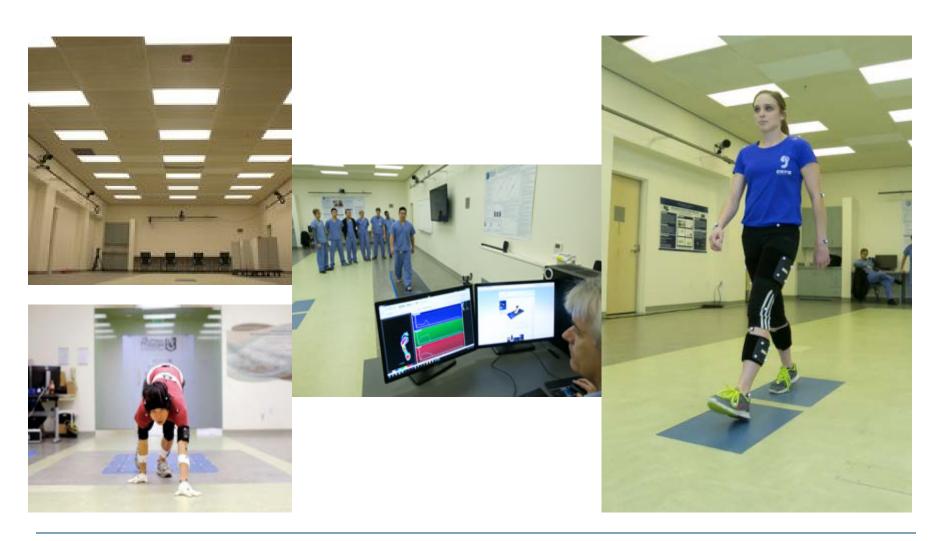


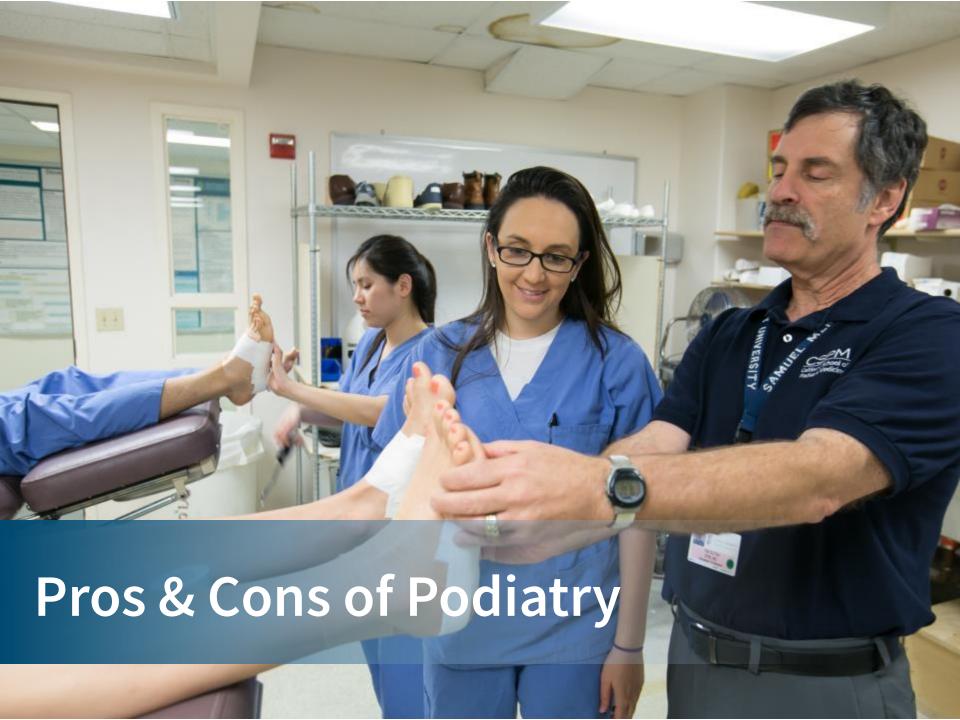






Motion Analysis Research Center (MARC)





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) \rightarrow 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

2015-16 Application Year	MD	DO	DPM*(14/15)
Applicants	52,550	20,720	1194*
Admitted	20,631	6,592	674
Science GPA	3.45	3.38	3.20
Overall GPA	3.55	3.47	3.30
MCAT	28.3/31.4	26/499	21.2
CSPM - 2016	Science	Overall	MCAT
	3.14	3.3	24/497

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



What Problems Do DPMs Treat?

Trauma/Fractures

Metabolic disorders e.g. Diabetes

Neurological disorders

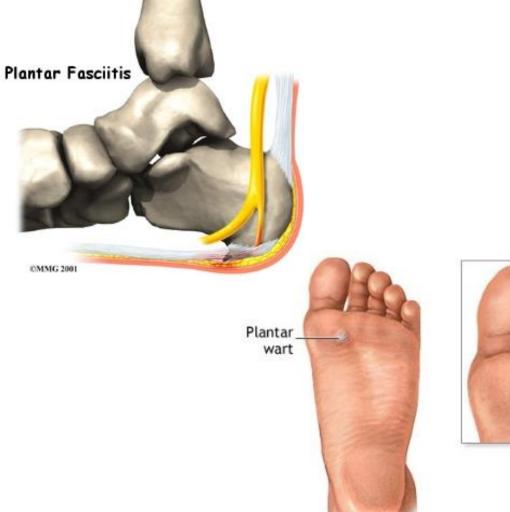
Musculoskeletal disorders

Vascular disorders

Cutaneous disorders

"The Unhappy Foot..."

















































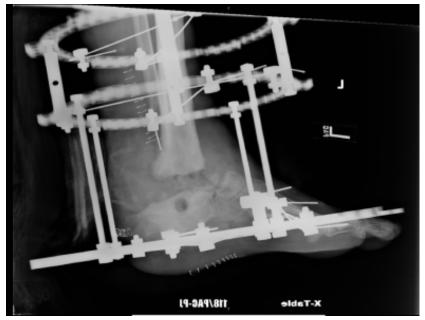
























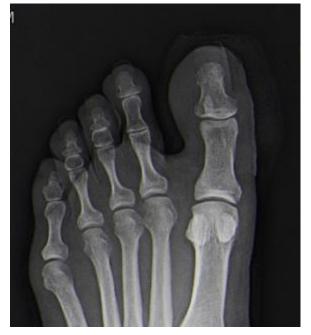
















DPMs Convert Unhappy Feet Into



