CATALOG CONTENTS

- Welcome to the General Catalog of the University of California, San Francisco (https://catalog.ucsf.edu/)
  - Academic and Administrative Calendar (https://catalog.ucsf.edu/academic-administrative-calendar/)
- Academic Programs (https://catalog.ucsf.edu/programs/)
  - Advanced Training in Clinical Research (Certificate) (https://catalog.ucsf.edu/programs/atcr-certificate/)
  - Biochemistry and Molecular Biology (Tetrad) (PhD) (https://catalog.ucsf.edu/programs/biochem-molec-bio-tetrad/)
  - Bioengineering (PhD) (https://catalog.ucsf.edu/programs/bioengineering/)
  - Biomedical Imaging (MS) (https://catalog.ucsf.edu/programs/biomedical-imaging/)
  - Biomedical Sciences (PhD) (https://catalog.ucsf.edu/programs/biomedical-sciences/)
  - Biophysics (PhD) (https://catalog.ucsf.edu/programs/biophysics/)
  - Cell Biology (Tetrad) (PhD) (https://catalog.ucsf.edu/programs/cell-bio-tetrad/)
  - Chemistry and Chemical Biology (PhD) (https://catalog.ucsf.edu/programs/chemistry-chemical-biology/)
  - Clinical and Epidemiologic Research (MAS) (https://catalog.ucsf.edu/programs/clinical-epidemiologic-research-mas/)
  - Dentistry Postgraduate Program - Certificate (https://catalog.ucsf.edu/programs/dentistry-post-graduate-certificate/)
  - Developmental and Stem Cell Biology (PhD) (https://catalog.ucsf.edu/programs/dscb/)
  - Doctor of Dental Surgery (DDS) (https://catalog.ucsf.edu/programs/doctor-dental-surgery/)
  - Doctor of Medicine (MD) (https://catalog.ucsf.edu/programs/medicine-md/)
  - Doctor of Pharmacy (PharmD) (https://catalog.ucsf.edu/programs/pharmd/)
  - Doctor of Physical Therapy (DPT) (https://catalog.ucsf.edu/programs/physical-therapy-dpt/)
  - Epidemiology and Translational Science (PhD) (https://catalog.ucsf.edu/programs/epidemiology-translational-science/)
  - Equity in Brain Health (Certificate) (https://catalog.ucsf.edu/programs/equity-in-brain-health-certificate/)
  - Genetic Counseling (MS) (https://catalog.ucsf.edu/programs/genetic-counseling-ms/)
  - Genetics (Tetrad) (PhD) (https://catalog.ucsf.edu/programs/genetics-tetrad/)
  - Global Health Sciences (MS) (https://catalog.ucsf.edu/programs/global-health-sciences-ms/)
  - Global Health Sciences (PhD) (https://catalog.ucsf.edu/programs/global-health-sciences/)
  - Health Data Science (Certificate) (https://catalog.ucsf.edu/programs/health-data-sci-certificate/)
  - Health Data Science (MS) (https://catalog.ucsf.edu/programs/health-data-sci-ms/)
  - Health Policy and Law (MS) (https://catalog.ucsf.edu/programs/health-policy-and-law-ms/)
  - Healthcare Administration and Interprofessional Leadership (MS) (https://catalog.ucsf.edu/programs/healthcare-administration-interprofessional-leadership-ms/)
  - History of Health Sciences (MA) (https://catalog.ucsf.edu/programs/history-health-sciences-ma/)
  - History of Health Sciences (PhD) (https://catalog.ucsf.edu/programs/history-health-sciences/)
  - International Dentist Pathway (DDS) (https://catalog.ucsf.edu/programs/international-dentist-pathway-dds/)
  - Interprofessional Health Post-Baccalaureate Certificate Program in Dentistry (https://catalog.ucsf.edu/programs/interprofessional-health-postbac-dentistry/)
  - Interprofessional Health Post-Baccalaureate Certificate Program in Medicine (https://catalog.ucsf.edu/programs/interprofessional-health-postbac-medicine/)
  - Interprofessional Health Post-Baccalaureate Certificate Program in Pharmacy (https://catalog.ucsf.edu/programs/interprofessional-health-postbac-pharmacy/)
  - Medical Anthropology (PhD) (https://catalog.ucsf.edu/programs/medical-anthropology/)
  - Medical Scientist Training Program (https://catalog.ucsf.edu/programs/mstp/)
  - Neuroscience (PhD) (https://catalog.ucsf.edu/programs/neuroscience/)
  - Nursing (DNP) (https://catalog.ucsf.edu/programs/nursing-practice-dnp/)
  - Nursing (MS) (https://catalog.ucsf.edu/programs/nursing-ms/)
  - Nursing (PhD) (https://catalog.ucsf.edu/programs/phd-nursing/)
  - Nursing Master’s Entry Program (https://catalog.ucsf.edu/programs/nursing-mepn/)
  - Nursing Post-Master’s Certificate Program (https://catalog.ucsf.edu/programs/post-master-certificate/)
  - Oral and Craniofacial Sciences (MS) (https://catalog.ucsf.edu/programs/oral-craniofacial-sciences-ms/)
  - Oral and Craniofacial Sciences (PhD) (https://catalog.ucsf.edu/programs/oral-craniofacial-sciences-graduate/)
  - Oral and Craniofacial Sciences DDS/PhD Program (https://catalog.ucsf.edu/programs/oral-craniofacial-sciences-dds-phd/)
  - Pharmaceutical Sciences and Pharmacogenomics (PhD) (https://catalog.ucsf.edu/programs/pharmaceutical-sciences-pharmacogenomics/)
  - Postgraduate Program in Dental Public Health - Certificate (https://catalog.ucsf.edu/programs/postgraduate-program-dental-public-health-certificate/)
• Postgraduate Program in Oral Medicine - Certificate (https://catalog.ucsf.edu/programs/postgraduate-program-oral-medicine-certificate/)
• Postgraduate Program in Orthodontics - Certificate (https://catalog.ucsf.edu/programs/postgraduate-program-orthodontics-certificate/)
• Postgraduate Program in Pediatric Dentistry - Certificate (https://catalog.ucsf.edu/programs/pediatric-dentistry-certificate/)
• Postgraduate Program in Periodontology - Certificate (https://catalog.ucsf.edu/programs/postgraduate-program-periodontology-certificate/)
• Rehabilitation Science (PhD) (https://catalog.ucsf.edu/programs/rehabilitation-science-phd/)
• Sociology (PhD) (https://catalog.ucsf.edu/programs/sociology/)
• Translational Medicine (MTM) (https://catalog.ucsf.edu/programs/translational-medicine-mtm/)
• UCSF/UC Berkeley Joint Medical Program (https://catalog.ucsf.edu/programs/ucsf-ucb-jmp/)
• Accreditation (https://catalog.ucsf.edu/accreditation/)
• Archive (https://catalog.ucsf.edu/archive/)
• Catalog A-Z Index (https://catalog.ucsf.edu/azindex/)
• Catalog Contents (p. 1)
• Contact information (https://catalog.ucsf.edu/contact-information/)
• Course Catalog (https://catalog.ucsf.edu/course-catalog/)
  • Anatomy (ANATOMY) (https://catalog.ucsf.edu/course-catalog/anatomy/)
  • Anesthesia and Perioperative Care (ANE PERIOP) (https://catalog.ucsf.edu/course-catalog/ane_periop/)
  • Anthropology (ANTHROPOLOG) (https://catalog.ucsf.edu/course-catalog/anthropology/)
  • Biochemistry (BIOCHEM) (https://catalog.ucsf.edu/course-catalog/biochemistry/)
  • Bioengineering (BIOENGR) (https://catalog.ucsf.edu/course-catalog/bioengineering/)
  • Biomedical Imaging (BIOMED IMG) (https://catalog.ucsf.edu/course-catalog/biomedical-imaging/)
  • Biomedical Informatics (BIO MD INF) (https://catalog.ucsf.edu/course-catalog/bio_md_inf/)
  • Biomedical Sciences (BIOMED SCI) (https://catalog.ucsf.edu/course-catalog/biomedical-sciences/)
  • Biopharmaceutical Sciences (BIOPHRM SC) (https://catalog.ucsf.edu/course-catalog/biopharm-sc/)
  • Biophysics (BIOPHYSICS) (https://catalog.ucsf.edu/course-catalog/biophysics/)
  • Biostatistics (BIOSTAT) (https://catalog.ucsf.edu/course-catalog/biostatistics/)
  • Cell Biology (CELL BIOL) (https://catalog.ucsf.edu/course-catalog/cell_biol/)
  • Chemistry (CHEMISTRY) (https://catalog.ucsf.edu/course-catalog/chemistry/)
  • Clinical Pharmacy (CL PHARM) (https://catalog.ucsf.edu/course-catalog/cl_pharm/)
  • Computational Precision Health (COMP HLTH) (https://catalog.ucsf.edu/course-catalog/comp_hlth/)
  • Craniofacial Anomalies (CRAN ANOM) (https://catalog.ucsf.edu/course-catalog/cran_anom/)
  • Data Science (DATASCI) (https://catalog.ucsf.edu/course-catalog/dataisci/)
  • Dental Public Health (DEN PUB HL) (https://catalog.ucsf.edu/course-catalog/den_pub_hl/)
  • Dental Sciences (DENTALSCI) (https://catalog.ucsf.edu/course-catalog/dentalsci/)
  • Dermatology (DERMATOL) (https://catalog.ucsf.edu/course-catalog/dermatol/)
  • Developmental and Stem Cell Biology (DEV STMCEL) (https://catalog.ucsf.edu/course-catalog/dev_stmcel/)
  • Emergency Medicine (EMERG MED) (https://catalog.ucsf.edu/course-catalog/emerg_med/)
  • Endocrinology (ENDOCRINOL) (https://catalog.ucsf.edu/course-catalog/endocrinol/)
  • Epidemiology (EPIDEMIOL) (https://catalog.ucsf.edu/course-catalog/epidemiol/)
  • Equity in Brain Health (EQBRAIHLTH) (https://catalog.ucsf.edu/course-catalog/eqbraihlth/)
  • Family and Community Medicine (FAM CM MED) (https://catalog.ucsf.edu/course-catalog/fam_cm_med/)
  • Genetic Counseling (GENCOUNSEL) (https://catalog.ucsf.edu/course-catalog/gencounsel/)
  • Genetics (GENETICS) (https://catalog.ucsf.edu/course-catalog/genetics/)
  • Global Health Sciences (GLOBL HLTH) (https://catalog.ucsf.edu/course-catalog/globl_hlth/)
  • Graduate Studies (GRAD) (https://catalog.ucsf.edu/course-catalog/grad/)
  • Healthcare Administration (HLTH ADMIN) (https://catalog.ucsf.edu/course-catalog/hlth_admin/)
  • History of Health Sciences (HIST HL SC) (https://catalog.ucsf.edu/course-catalog/hist_hl_sc/)
  • Implementation Science (IMPLMT SCI) (https://catalog.ucsf.edu/course-catalog/implmt_sci/)
  • Interdepartmental Studies (INTERDEPT) (https://catalog.ucsf.edu/course-catalog/interdept/)
  • Laboratory Medicine (LAB MED) (https://catalog.ucsf.edu/course-catalog/lab_med/)
  • Medicine (MEDICINE) (https://catalog.ucsf.edu/course-catalog/medicine/)
  • Microbiology (MICROBIOL) (https://catalog.ucsf.edu/course-catalog/microbiology/)
  • Neurological Surgery (NEURO SURG) (https://catalog.ucsf.edu/course-catalog/neuro_surg/)
  • Neurology (NEUROLOGY) (https://catalog.ucsf.edu/course-catalog/neurology/)
  • Neurosciences (NEUROSCI) (https://catalog.ucsf.edu/course-catalog/neurosci/)
  • Nursing (NURSING) (https://catalog.ucsf.edu/course-catalog/nursing/)
  • Nursing Skills Lab (SKILLS LAB) (https://catalog.ucsf.edu/course-catalog/skills-lab/)
  • Nutrition (NUTRITION) (https://catalog.ucsf.edu/course-catalog/nutrition/)
• Obstetrics, Gynecology, and Reproductive Science (OB GYN RS) (https://catalog.ucsf.edu/course-catalog/ob_gyn_r_s/)
• Ophthalmology (OPHTHALMOL) (https://catalog.ucsf.edu/course-catalog/ophthalmol/)
• Oral and Craniofacial Sciences (OR CRA FAC) (https://catalog.ucsf.edu/course-catalog/or_cra_fac/)
• Oral and Maxillofacial Surgery (OR MX SURG) (https://catalog.ucsf.edu/course-catalog/or_mx_surg/)
• Oral Medicine (ORAL MED) (https://catalog.ucsf.edu/course-catalog/oral_med/)
• Oral Radiology (ORAL RAD) (https://catalog.ucsf.edu/course-catalog/oral_rad/)
• Orthodontics (ORTHODONT) (https://catalog.ucsf.edu/course-catalog/orthodont/)
• Orthopaedic Surgery (ORTHO SURG) (https://catalog.ucsf.edu/course-catalog/ortho_surg/)
• Otolaryngology (OTOLARYN) (https://catalog.ucsf.edu/course-catalog/otolaryn/)
• Pathology (PATHOLOGY) (https://catalog.ucsf.edu/course-catalog/pathology/)
• Patient-Centered Care (PT CN CARE) (https://catalog.ucsf.edu/course-catalog/pt_cn_care/)
• Pediatric Dentistry (PED DENT) (https://catalog.ucsf.edu/course-catalog/ped_dent/)
• Pediatrics (PEDIATRICS) (https://catalog.ucsf.edu/course-catalog/pediatrics/)
• Periodontics (PERIODONT) (https://catalog.ucsf.edu/course-catalog/periodont/)
• Pharmaceutical Chemistry (PHARM CHEM) (https://catalog.ucsf.edu/course-catalog/pharm_chem/)
• Pharmacogenomics (PHARMGENOM) (https://catalog.ucsf.edu/course-catalog/pharmgenom/)
• Pharmacology (PHARMACOL) (https://catalog.ucsf.edu/course-catalog/pharmacol/)
• Pharmacy Integrated Sciences (PHARMIS) (https://catalog.ucsf.edu/course-catalog/pharmis/)
• Physical Therapy (PHYS THER) (https://catalog.ucsf.edu/course-catalog/phys_ther/)
• Preventive and Restorative Dental Sciences (PRV RS DEN) (https://catalog.ucsf.edu/course-catalog/prv_rs_den/)
• Psychiatry (PSYCHIATRY) (https://catalog.ucsf.edu/course-catalog/psychiatry/)
• Radiation Oncology (RAD ONCOL) (https://catalog.ucsf.edu/course-catalog/rad_oncol/)
• Radiology (RADIOLOGY) (https://catalog.ucsf.edu/course-catalog/radiology/)
• Rehabilitation Science (REHAB SCI) (https://catalog.ucsf.edu/course-catalog/rehab_sci/)
• Restorative Dentistry (RESTOR DEN) (https://catalog.ucsf.edu/course-catalog/restor_den/)
• Scientific Methods (SCIMETHODS) (https://catalog.ucsf.edu/course-catalog/scimethods/)
• Sociology (SOCIOLOGY) (https://catalog.ucsf.edu/course-catalog/sociology/)
• Surgery (SURGERY) (https://catalog.ucsf.edu/course-catalog/surgery/)
• Urology (UROLOGY) (https://catalog.ucsf.edu/course-catalog/urology/)
• Faculty (https://catalog.ucsf.edu/faculty/)
• Fees (https://catalog.ucsf.edu/fees/)
• Governance (https://catalog.ucsf.edu/governance/)
• Residency and Fellowship Programs (https://catalog.ucsf.edu/residency-fellowship/)
  • Anesthesia Residency (https://catalog.ucsf.edu/residency-fellowship/anesthesia-residency/)
  • Clinical Pharmacology and Therapeutics Postdoctoral Training Program (https://catalog.ucsf.edu/residency-fellowship/cpt-postdoctoral-training/)
  • Dentistry Preceptorships and Fellowships (https://catalog.ucsf.edu/residency-fellowship/dentistry-preceptorships-fellowships/)
  • Endodontics Residency (https://catalog.ucsf.edu/residency-fellowship/endodontics-residency/)
  • General Practice Residency (https://catalog.ucsf.edu/residency-fellowship/dentistry-general-practice-residency/)
  • Limb Preservation Fellowship (https://catalog.ucsf.edu/residency-fellowship/limb-preservation-fellowship/)
  • Medicine Residency and Fellowship Training Programs, UCSF Fresno (https://catalog.ucsf.edu/residency-fellowship/medicine-residency-fellowship.ucsf-fresno/)
  • Nurse Practitioner Fellowship Programs (https://catalog.ucsf.edu/residency-fellowship/nurse-practitioner-fellowship/)
  • Occupational and Environmental Medicine Residency (https://catalog.ucsf.edu/residency-fellowship/oem-residency/)
  • Oral and Maxillofacial Surgery Residency (https://catalog.ucsf.edu/residency-fellowship/oral-maxillofacial-surgery-residency/)
  • Orthopaedic Surgery Residency (https://catalog.ucsf.edu/residency-fellowship/orthopaedic-surgery-residency/)
  • Pathology and Laboratory Medicine Residency (https://catalog.ucsf.edu/residency-fellowship/pathology-lab-med-residency/)
  • Pharmacy Residency Program (https://catalog.ucsf.edu/residency-fellowship/pharmacy-residency/)
  • Prosthodontics Residency (https://catalog.ucsf.edu/residency-fellowship/prosthodontics-residency/)
  • School of Medicine Fellowship Training Programs (https://catalog.ucsf.edu/residency-fellowship/medicine-fellowship-training/)
  • School of Medicine Residency Training Programs (https://catalog.ucsf.edu/residency-fellowship/medicine-residency-training-programs/)
  • UCSF Fresno Obstetrics/Gynecology Residency (https://catalog.ucsf.edu/residency-fellowship.ucsf-fresno-ob-gyn-residency/)
  • UCSF-Genentech Clinical Development Fellowship (https://catalog.ucsf.edu/residency-fellowship.ucsf-genentech-clinical-devel-fellowship/)
  • UCSF-NYU Langone Health Advanced Education in General Dentistry Residency program (AEGD) (https://catalog.ucsf.edu/residency-fellowship/aegd/)
• Schools and Programs (https://catalog.ucsf.edu/schools/)
• Graduate Division (https://catalog.ucsf.edu/schools/graduate-division/)
• Institute for Global Health Sciences (https://catalog.ucsf.edu/schools/institute-global-health-sciences/)
• School of Dentistry (https://catalog.ucsf.edu/schools/school-dentistry/)
• School of Medicine (https://catalog.ucsf.edu/schools/school-medicine/)
• School of Nursing (https://catalog.ucsf.edu/schools/school-nursing/)
• School of Pharmacy (https://catalog.ucsf.edu/schools/school-pharmacy/)
• Search Courses (https://catalog.ucsf.edu/course-search/)
• University Support Offices (https://catalog.ucsf.edu/university/)
  • Basic Needs for Students (https://catalog.ucsf.edu/university/basic-needs/)
  • Campus Life Services (https://catalog.ucsf.edu/university/campus-life-services/)
  • First Generation Support Services (https://catalog.ucsf.edu/university/first-generation-support-services/)
  • Graduate and Professional Student Association (https://catalog.ucsf.edu/university/graduate-professional-student-association/)
  • Housing Services (https://catalog.ucsf.edu/university/housing/)
  • Initiative to Maximize Student Development (https://catalog.ucsf.edu/university/initiative-maximize-student-development/)
  • International Students and Scholars Office (https://catalog.ucsf.edu/university/international-students-scholars-office/)
  • Learning Resource Services (https://catalog.ucsf.edu/university/learning-resource-services/)
  • Library (https://catalog.ucsf.edu/university/library/)
  • Office for Postdoctoral Scholars (https://catalog.ucsf.edu/university/office-postdoctoral-scholars/)
  • Office of Career and Professional Development (https://catalog.ucsf.edu/university/office-career-professional-development/)
  • Office of Diversity and Outreach (https://catalog.ucsf.edu/university/office-diversity-outreach/)
  • Office of Institutional Research (https://catalog.ucsf.edu/university/office-institutional-research/)
  • Office of the Registrar (https://catalog.ucsf.edu/university/office-registrar/)
  • Registered Campus Organizations (https://catalog.ucsf.edu/university/registered-campus-organizations/)
  • Restorative Justice Practices (https://catalog.ucsf.edu/university/restorative-justice-practices/)
  • Safety Services (https://catalog.ucsf.edu/university/safety-services/)
  • Student Disability Services (https://catalog.ucsf.edu/university/student-disability-services/)
  • Student Financial Services (https://catalog.ucsf.edu/university/student-financial-services/)
  • Student Health and Counseling Services (https://catalog.ucsf.edu/university/student-health-counseling/)
• Student Life (https://catalog.ucsf.edu/university/student-life/)
• Student Rights and Responsibilities (https://catalog.ucsf.edu/university/student-rights-responsibilities/)
• Student Veteran and Military Support Services (https://catalog.ucsf.edu/university/student-veteran-military-support-services/)
• Summer Research Training Program (https://catalog.ucsf.edu/university/summer-research-training-program/)
• Synapse: UCSF Student Voices (https://catalog.ucsf.edu/university/synapse-ucsf-student-voices/)
• Welcome from the Chancellor (https://catalog.ucsf.edu/welcome/)