

# ARTHUR A. DUGONI SCHOOL OF DENTISTRY

Dean: Nader Nadershahi, DDS

The Arthur A. Dugoni School of Dentistry is a fully-accredited professional school that offers the Doctor of Dental Surgery degree. The 36-month program prepares graduates to provide quality dental care and to supplement and adapt their knowledge and skills throughout their professional lives. The school prides itself on producing competent general dentists in a humanistic environment who have a reputation for high standards of clinical excellence and are active and successful members of the profession. The school's vision is to lead the improvement of health by advancing oral health, and is supported in its mission by its core values of humanism, innovation, leadership, reflection, stewardship, collaboration, and philanthropy.

The dental program, located in a completely refurbished and greatly expanded facility in downtown San Francisco, includes biomedical and behavioral science, laboratory, preclinical, and clinical instruction as well as research opportunities. The school also has a community-based teaching clinic in Union City.

In addition to the Doctor of Dental Surgery degree, the School of Dentistry has postdoctoral residency programs in orthodontics and endodontics that lead to a certificate and the degree of Master of Science in Dentistry; a post-doctoral residency program in oral and maxillofacial surgery that leads to a certificate; an International Dental Studies program which grants a DDS degree after two years of training to individuals who have graduated from a foreign dental school; a baccalaureate program in dental hygiene offered in conjunction with the College of the Pacific; and a postdoctoral residency program in Advanced Education in General Dentistry (AEGD) in Union City that leads to a certificate.

The School of Dentistry is an active member of the American Dental Education Association (ADEA) and its educational programs are fully accredited by the Commission on Dental Accreditation. In 2004 the school was named in honor of its long-standing dean, Dr. Arthur A. Dugoni. Upon Dr. Dugoni's retirement in 2006, Dr. Pat Ferrillo assumed the deanship.

## Mission

The mission of the School of Dentistry is to:

- Prepare oral healthcare providers for scientifically based practice
- Define new standards for education
- Provide patient-centered care
- Discover and disseminate knowledge
- Actualize individual potential
- Develop and promote policies addressing the needs of society

These core values characterize the School of Dentistry and define its distinctive identity:

- Humanism: dignity, integrity, and responsibility
- Innovation: willingness to take calculated risks
- Leadership: modeling, inspiring, and mobilizing
- Reflection: using facts and outcomes for continuous improvement
- Stewardship: responsible use and management of resources
- Collaboration: partnering for the common good
- Philanthropy: investing time, talent and assets

## Curriculum

Basic biomedical, pre-clinical, and clinical subjects are combined with applied behavioral sciences in an integrated, multi-disciplinary program that prepares graduates to provide quality care to the public and to enter a changing world that requires them to supplement and adapt existing knowledge and skills. The 36-month curriculum that leads to the degree of Doctor of Dental Surgery begins in July and is divided into 12 quarters, each consisting of 10 weeks of instruction, one week of examinations, and a vacation period of between one and four weeks.

During the first quarter, students practice use of dental instruments and materials, develop a working position and posture that uses direct and indirect vision, hone basic dental laboratory skills, and are introduced to study and test-taking skills and methods of time management that assist them in succeeding in this rigorous curriculum. Integrated biomedical science instruction in anatomy, biochemistry, physiology, pharmacology, and microbiology is offered in the first eight quarters, followed by multi-disciplinary, integrated presentations of basic science foundations for clinical topics such as the importance of saliva, tissue aging, nutrition, and infection control. Throughout the program, students learn application of basic sciences to clinical problems in dentistry that use the scientific method of inquiry.

Integrated pre-clinical instruction takes place in the first four quarters with students learning to work from a seated position in a state-of-the-art preclinical simulation laboratory and with a chair-side assistant in conjunction with pediatric dental practice. Clinical work with patients is initiated in the fourth quarter.

The school's comprehensive patient care philosophy is based on the concept of private dental practice where the student assumes responsibility for assigned patients' treatment, consultation, and referral for specialty care. Second-year students practice clinical dentistry 15 hours per week; during the third year the number of clinical hours increases to 29 per week (evening clinic appointments supplement patient care opportunities and are available to second-year students and mandatory for third-year students). In the clinic, students learn to provide comprehensive dental care under the direction of Group Practice Leaders and multi-disciplinary faculty from diagnostic sciences, periodontics, restorative dentistry, endodontics, orthodontics, and removable prosthodontics. Oral and maxillofacial surgery, pediatric dentistry, and radiology are learned in respective specialty clinics. Students participate with faculty and orthodontic residents in adjunctive orthodontic care and oral development clinics.

Advanced clinical dentistry and evaluation of new developments and topics that involve several disciplines are learned in the third-year in conjunction with patient care. Second- and third-year students participate in 90 hours of patient care clinics located in treatment facilities in Northern California, and include hospitals, community clinics, and skilled nursing facilities. At extramural clinic sites students are supervised by Pacific faculty in conditions that more closely resemble private practice. Students typically treat 4-6 patients per day. Rotations at these sites occur weekdays during the academic year, weekends, and vacation periods. Students typically find these experiences highly educational, and learn how to provide patient care in a more condensed time-frame.

Behavioral science aspects of human and practice management, critical thinking, ethics, and dental jurisprudence are woven throughout the curriculum. Epidemiology and demography of the older population, basic processes of aging and dental management of hospitalized patients,

geriatric patients and those with the most common disabling conditions are studied in the third year.

Students are counseled individually with regard to establishing a practice and applying for postgraduate education. A weekend conference devoted to new developments in dentistry serves to acquaint students with opportunities for postgraduate education and with alumni views of the realities of dental practice.

## Admission Requirements

There are four basic requirements for admission to the course of study that leads to the degree of Doctor of Dental Surgery: completion of required pre-dental education, completion of the Dental Admission Test (DAT), submission of complete application materials through the American Dental Education Association's Application Service (AADSAS), and appearance at the school for a personal interview.

Pre-dental education must be completed at a college or university from which subject matter is accepted for credit toward advanced standing at University of the Pacific or universities with equal standing. At least three years of collegiate work, including 135 quarter or 90 semester units, is recommended. Courses from a community college are acceptable if they are transferable as equivalent to pre-dental courses at a four-year college. Applicants submit a copy of an advanced standing evaluation form provided by the four-year college or a course equivalency statement from the community college.

Students are encouraged to develop their course of study with the assistance of a pre-dental advisor. Pre-dental advisors can identify courses that meet School of Dentistry requirements and help prepare individuals for the rigors of professional education and practice. They are also aware of courses that would best prepare a student for competitive scores on the Dental Admission Test (DAT).

## Number of Required Pre-dental Courses

Biological Sciences with Laboratory*	4
General Physics with Laboratory	2
Inorganic Chemistry with Laboratory	2
Organic Chemistry*	2
English Composition, Communication or Speech**	2

\* Predental students are advised to complete one course in anatomy or physiology as part of the biological sciences requirement. The admissions committee requires applicants to complete two semesters of organic chemistry or, upon direction of the predental advisor, one semester each of organic chemistry and biochemistry.

\*\* One course in composition or technical writing is required. Other courses should develop written or verbal communication skills. Courses in English as a Second Language (ESL) do not meet this requirement.

Pass/Fail evaluations in required subjects are unacceptable unless accompanied by a narrative transcript provided by the awarding school.

Although it is recommended that applicants have a baccalaureate degree, no specific major is required or preferred. Upper-division courses that extend knowledge of required subjects and/or those in areas such as economics, computer science, business administration and the humanities are recommended.

## The Dental Admission Test

The DAT is available year round at testing centers around the country. To be considered for admissions, the exam must have been taken within 24

months of the date of the application. Preference for admission is given to students who provide scores no later than November for the class that enters the following July. Information and applications are available from the Dental Admission Test Program, Division of Education, American Dental Association at 800-621-8099 or online at [www.ada.org](http://www.ada.org) (<http://www.ada.org>).

## Application Materials

The School of Dentistry participates in the American Association of Dental Schools Application Service (AADSAS). AADSAS is an information clearinghouse which transmits to a dental school the biographical and academic data required by admission committees, thereby relieving the applicant of the burden of completing multiple and repetitious individual applications. All AADSAS applicants must submit an online application at the ADEA web site, [www.adea.org/aadsas](http://www.adea.org/aadsas) (<http://www.adea.org/aadsas>). Submit official transcripts from each college and university attended\*, three letters of evaluation, and a check or money order for the AADSAS processing fee to:

AADSAS  
1400 K Street  
Suite 1100  
Washington DC, 2005

Completed application materials must be received by AADSAS no later than February 2 for an applicant to be considered for the class entering in July; however, it is recommended that students apply as early as June. A nonrefundable fee of \$75 is required by the school before the processing of an application is initiated. The University of the Pacific does not require any secondary application.

\* If the applicant's undergraduate institution has a pre-health science advisory committee, a committee evaluation is recommended. Otherwise, three letters of evaluation are required, two of which should come from predental or upper division science course professors. At the applicant's discretion, additional letters may be submitted if these provide supplemental information regarding the applicant's character, special abilities, and professional motivation. Evaluations from health care professionals who know the applicant well are encouraged.

## Personal Interview

Applicants whose credentials appear to meet pre-dental requirements may be invited to the school for an interview with one or more members of the Admissions Committee and a current dental student. Applicants selected for interview are notified by phone of available dates for the interview. During the interview the applicant's interest in dentistry, future plans, maturity, and personal qualities needed for successful work with patients are assessed. In addition, applicants participate in an orientation seminar, meet informally with current students and tour the school.

## Selection Factors

The Admissions Committee carefully considers each applicant's scholastic record, scores on the DAT, personal statement, letters of evaluation, evidence of manual dexterity (including the perceptual ability portion of the DAT), other personal attributes and qualities as well as demonstration of his or her understanding about a career in the dental profession. Applicants who are offered the opportunity to enroll must complete planned coursework at a specified performance level.

The Admissions Committee has a firm policy of not discriminating against any applicant because of age, creed, national or ethnic origin, marital status, race, color, gender or sexual orientation. Established

review procedures ensure applicants an equal opportunity to be considered for admission.

## Accelerated Programs

In cooperation with College of the Pacific, the School of Dentistry offers three accelerated programs for pre-dental students. The programs were initiated in 1984 and have been refined over the years.

### Five-Year Program Leading to a DDS Degree

This program provides the minimum foundation in pre-dental education through two years of study on the Stockton campus for a select group of highly qualified students. Students admitted to the program take a prescribed list of general education and science courses as undergraduates in College of the Pacific. After two years of study, students are evaluated for admission to the School of Dentistry. Freshmen who meet the following criteria will be considered for admission to this highly selective program.

1. An ACT composite score of 31 or a combined SAT Critical Reading and Math score of 1350 with a minimum Critical Reading score of 630.
2. A minimum 3.7 grade point average (on a 4.0 scale) based on a substantial number of math and science courses in a college preparatory program.
3. Acceptable scores on the Pacific fundamental skills tests in reading, writing, and quantitative analysis administered upon entering the University.

### Six Year Program Leading to a BA or BS Degree and a DDS Degree

Students may be admitted into a selective six year program of study. Those accepted into the program major in biological sciences or chemistry and obtain a Bachelor of Science or Arts in Biological Sciences or a Bachelor of Arts in Chemistry from College of the Pacific after three years on the Stockton campus and one year at the School of Dentistry. This special opportunity, combined with the 36-month accelerated program of the School of Dentistry, makes possible the completion of all requirements for both the Bachelor of Science or Arts degree and the Doctor of Dental Surgery degree in a total of six years. Students must meet the following criteria in order to be considered for the program.

1. An ACT composite score of 31 or a combined SAT Critical Reading and Math score of 1350 with a minimum Critical Reading score of 630.
2. A minimum 3.6 grade point average (on a 4.0 scale) in a solid college preparatory program.
3. Substantial coursework in English, sciences and mathematics.

### Seven-Year Program Leading to a BA or BS Degree and a DDS Degree

This program is designed to provide students with the opportunity to spend four years earning a bachelor's degree in any discipline, and then complete their dental education at the School of Dentistry. Students benefit by knowing early in their careers that they are granted an interview to the School of Dentistry provided they meet the requirements outlined in their pre-dental program acceptance letter. Students admitted to this program can major in any subject, but must complete a series of science courses as prescribed by a pre-dental advisor. Freshmen applying for the program should meet the following guidelines:

1. An ACT composite score of 27 or a combined SAT Critical Reading and Math of 1210 with a minimum Critical Reading score of 600.

2. A minimum 3.5 grade point average (on a 4.0 scale) in a solid college preparatory program.
3. Substantial coursework in English, sciences, and mathematics.

## School of Dentistry Expectations for Admission

To be admitted to the School of Dentistry, accelerated students must:

1. meet all course requirements for the pre-dental programs, including Grade Point Average standards;
2. achieve scores of 18 or above in all categories on the Dental Admission Test (DAT);
3. successfully complete an interview at the School of Dentistry;
4. file a competitive and complete AADSAS application by September 1;
5. submit the \$75 application fee; and
6. obtain at least three letters of evaluation from science faculty, including one from a pre-dental faculty advisor.

## Graduate Orthodontic Program

The advanced education program in orthodontics began in 1971. Classes begin each July for the 27-month program. Instruction prepares the resident to provide superior treatment based on contemporary biologic orthodontic principles and is recognized for education eligibility by the American Board of Orthodontics.

Didactic courses include principles of orthodontics, cephalometrics and 3D imaging, facial growth, biomechanics, craniofacial biology, research methodology, appliance laboratory, pediatrics, statistics, anatomy, oral pathology, cleft lip and palate, comparative appliances, occlusion, orthognathic surgery, restorative-orthodontic relationships, practice management, and periodontic/orthodontic care. Faculty fosters a collegial atmosphere and mutual respect between residents and faculty.

Clinical instruction and practice are conducted in the school's orthodontic clinic in seven half-day clinics per week which include treatment for children, adolescents, adults, and multidisciplinary (integrated with periodontal and restorative procedures) patients. Adult patients constitute about one fourth of a student's caseload. Each resident starts approximately 45 to 55 new patients and 70 to 90 transfer patients during the residency program. Residents are also rotated through the Kaiser Craniofacial Panel. Residents have an opportunity to participate in a 10 to 14 day Rotaplast medical mission abroad for the care of patients with craniofacial anomalies. Fixed appliance treatment employs the edgewise technique, although instruction permits a wide latitude of clinical variation based on patient needs and special faculty expertise. Experience in treating the entire range of orthodontic problems is provided. Each resident also starts several micro-implant anchorage supported patients. From 1998 to 2002 the orthodontic department was the initial testing site for the new Invisalign technology, and today provides a state-of-the-art approach to treating a wide variety of patients with Invisalign. Each resident generally starts 6 to 8 patients with this appliance.

Each resident engages in a research project and completes a thesis to qualify for the Master of Science in Dentistry degree. Theses are submitted for publication in scientific journals.

Residents are scheduled for didactic and clinical instruction five full days per week, and full participation is required. While there is no prohibition

of weekend private dental practice, students' commitments during the program seriously limit this opportunity.

## International Dental Studies Program

Through the Division of International Dental Studies (IDS), the opportunity to earn the Doctor of Dental Surgery degree is available to qualified graduates of foreign dental programs. This 24-month, eight-quarter program provides practical and comprehensive training in dental technique as practiced in the United States. The program's admission process is described more fully on the school website. For additional information you may also contact the IDS program at:

University of the Pacific, Arthur A. Dugoni School of Dentistry  
155 Fifth Street  
San Francisco, CA 94103, U.S.A.  
Phone: (415) 929-6428/929-6688  
Email: IDS@pacific.edu

The IDS curriculum includes pre-clinical and clinical instruction in dental subjects presented in the traditional DDS program, as well as instruction in pharmacology, oral pathology, differential diagnosis of oral diseases, facial pain, special needs patients, hospital dentistry, and preparation for regional and state licensure; the behavioral sciences include basic management science, introduction to geriatric dentistry, fundamentals of dental practice, and jurisprudence. IDS students begin clinical patient care in the third quarter and spend the greater portion of their second year in clinical practice.

Basic required documentation for admission consideration is as follows:

1. copy of a dental degree from a foreign dental school (any degree in a language other than English must be accompanied by a certified translation from a bona fide U.S. translator);
2. copy of successful completion of Parts I & 2 of the National Dental Board Examination (NBDE-1, NBDE-2);
3. copy of a score of 92 or above on the internet-based or 580 or above on the paper-based version of the Test of English as Foreign Language (TOEFL); and if applicable, an English proficiency examination will be administered at the School of Dentistry;
4. copy of a course-by-course transcript evaluation from Educational Credential Evaluators (ECE) with a minimum US Grade Point Average of 2.0;
5. copies of two recent letters of recommendation;
6. copy of a curriculum vitae (CV) that describes the applicant's dental experience and additional academic accomplishments since receiving the initial dental degree.

Provisional degrees are not accepted.

The IDS admissions committee considers the following factors in selecting applicants for admission: dental school achievement, scores on the National Dental Board Examination Parts-1 & 2, English language proficiency, professional experience and advanced degrees. Applicants invited to the technique exam and interview are selected from those who meet preliminary admissions requirements.

Application must be made through ADEA Centralized Application for Advanced Placement of International Dentists (CAAPID) at <http://www.adea.org/caapidapp/>.

## Advanced Education in General Dentistry Program

The AEGD program is a one-year, accredited postgraduate residency in general dentistry offered in Union City, approximately 35 miles southeast of San Francisco. The core of the program involves advanced clinical treatment of patients that require comprehensive general dental care. There is a comprehensive seminar series attended by residents at both sites that covers all of the dental specialties. The residents provide dental care to people with complex medical, physical, and psychological situations.

AEGD residents provide comprehensive dental care, attend supplemental seminars and rotations, and supervise dental and dental hygiene students. Hospital dentistry education and experience is part of the program curriculum. Residents are directly involved in the clinical education of dental and dental hygiene students, which gives residents a unique teaching experience.

The AEGD program offers the opportunity to gain more in-depth training in an optional accredited second-year residency training program. The optional second year allows greater flexibility to pursue individual interests, advanced clinical cases, teaching, or research projects.

The start date for the program is July 1. Residents have time off during the school's winter holiday break and 10 days discretionary leave.

There is no tuition for participation in the AEGD program. Residents receive an educational stipend. The program uses the American Dental Education Association's PASS application to receive application materials. For on-line information about Pacific's AEGD Program application process, please visit our site on the Web at <http://www.dental.pacific.edu>. Follow the links to Academic Program, and Advanced Education in General Dentistry; Application Process.

In addition to the two-year program, the AEGD Global Scholar Program is a unique, collaborative five-year program with the Gladys L. Benerd School of Education for foreign-trained dentists interested in advanced training in general dentistry and in becoming more proficient educators. Candidates must be sponsored by a qualified dental school abroad and agree to becoming educators at their home dental school upon completion. Successful candidates earn a two-year AEGD certificate and a masters or doctoral degree in education.

## Oral and Maxillofacial Surgery Residency Program

The School of Dentistry offers a residency program in oral and maxillofacial surgery at the Alameda County Medical Center/Highland Hospital in Oakland, California. The program has been in place since 1926, and in 2001 became affiliated with the University of the Pacific. The program is fully accredited by the Commission on Dental Accreditation. Upon completion of the program the resident is prepared to practice the full scope of oral and maxillofacial surgery and is eligible to apply for certification by the American Board of Oral and Maxillofacial Surgery.

Residents are educated in the basic sciences, including anatomy, pathology, pharmacology, and physiology. Clinical practice includes dentoalveolar surgery, comprehensive management of the implant patient, comprehensive management of dentofacial and craniofacial deformities, surgical management of pathologic lesions, temporomandibular joint surgery, aesthetic surgery, reconstructive surgery and management of cleft lip and palate, and trauma management.

There are several hospitals and clinics to which the resident is assigned during training, including Highland Hospital, Kaiser Hospital in Oakland, Oakland Children's Hospital, and the University of the Pacific School of Dentistry clinics. One of the program's most distinctive characteristics is the large volume and variety of clinical experience.

The residency lasts 48 months, and is made up of 30 months of oral and maxillofacial surgery, and 18 months of medical rotations including medicine, surgery, plastic surgery, oral pathology, and anesthesiology as well as electives in various surgical or medical subspecialties.

A dental degree is prerequisite to apply to the program. A candidate must submit an application package including a completed PASS application and three letters of recommendation. University of the Pacific/Highland participates in the National Matching Service.