

THE BACHELOR OF SCIENCE PROGRAM

The Bachelor of Science in Dental Laboratory Sciences degree program is an integrated program that combines general education, basic sciences, laboratory management operations, technical production, and dental sciences and technology. Depending on their background, interests and career goals, students have a choice of three tracks in completing the degree program. These tracks are (1) Theory and Practice, (2) Laboratory Operations, and (3) Advanced Technology Applications. The program requires a minimum of 120 semester credit hours for completion, including 90 semester credit hours of Texas Core Curriculum and program prerequisites, and 30 semester credit hours of coursework in dental laboratory sciences at the UT Health Science Center at San Antonio (HSC). The curriculum is presented in a flexible format that is supportive of both the traditional on-campus student and the off-campus working technician requiring a distance education format.

The **Theory and Practice Track** addresses state of the art technologies in the dental industry. The role of the dental technician as a member of the dental health team is changing. The science and technology of dental laboratory dentistry are in constant change. Dentists have become more dependent on the dental laboratory for advice concerning patient treatment planning. In addition to changes in science and technology, dentists and laboratories are placing a great deal more emphasis on business management.

The **Laboratory Operations Track** blends laboratory production with sound business management principles. This track reinforces the student's understanding and knowledge of laboratory business operations as practiced in the most successful dental laboratories. Specifically, it challenges the student's abilities in analytical reasoning and problem solving in the extremely competitive dental business environment. Courses include workshops, guest lectures, field trips, individual visits and evaluations of management strategies practiced by various types of dental clinic and laboratory operations.

The **Advanced Technology Applications Track** focuses on the science and technology of dentistry. Recent innovations in clinical and laboratory dentistry involve the application of CAD-CAM, laser, digital imaging, robotic, and computer technology and science. Emerging needs in the clinic and laboratory require scientists and technologists with backgrounds that can be applied to these innovations.

APPLICATION PROCEDURE

Application for admission to the Bachelor of Science in Dental Laboratory Sciences program may be completed at <https://www.applytexas.org>. Detailed information about application and admission is available in the School of Health Professions *Applicant Viewbook*, available online at http://studentservices.uthscsa.edu/prospects_apply_ah.aspx. A completed application, the application fee, official transcripts, and supporting documents must be submitted to the Registrar by **July 31** for fall semester admission and **November 15** for spring semester admission. Applicants must contact department faculty for pre-admissions counseling before applying to the program.

ADMISSION REQUIREMENTS AND PREREQUISITES

Bachelor of Science – Theory and Practice Track and Laboratory Operations Track

Admission requirements for the Bachelor of Science Theory and Practice Track and Laboratory Operations Track include:

- Completion of the Texas Core Curriculum with a grade of C or better (42 semester credit hours). Detailed information about the Texas Core Curriculum is provided below.
- Completion of BUSI 1302 Business Principles, or equivalent, with a grade of C or better (3 semester credit hours)
- Background in dental laboratory technology (See details below for further information about this requirement.)

Background in Dental Laboratory Technology – This requirement may be met by completing at least 45 semester credit hours of coursework in dental laboratory technology with grades of C or better at a nationally-accredited, two-year certificate or associate degree program in dental laboratory technology. The curriculum must cover the professional areas of:

- Dental sciences, i.e., tooth morphology, dental materials, oral anatomy, and occlusion
- Complete denture prosthodontics
- Fixed restorative prosthodontics (crown & bridge and ceramics)
- Removable partial denture prosthodontics
- Blood-borne infectious diseases
- Knowledge of the dental laboratory profession
- Orthodontic appliances
- Ethics and jurisprudence
- Dental laboratory techniques and practices
- Practical dental laboratory experience

If admitted to the Bachelor of Science program, students who have not earned 45 semester credit hours of dental laboratory technology prior to matriculating must earn the required number of credit hours by completing additional courses offered by the Department of Dental Laboratory Sciences.

Bachelor of Science – Advanced Track

Admission requirements for the Bachelor of Science in Advanced Technology Applications include:

- Completion of the Texas Core Curriculum with a grade of C or better (42 semester credit hours); see Core Curriculum below
- Completion of at least 30 semester credit hours in one of the following: basic sciences, mathematics, engineering, or computer science, with grades of C or better from a regionally accredited college or university; these courses are in addition to Texas Core Curriculum requirements
- Completion of college-level courses in English composition, algebra, and statistics from a regionally-accredited college or university with grades of C or better

CLEP AND DANTES CREDIT

The School of Health Professions accepts credits for program prerequisites earned through successful completion of examinations offered through the College Level Examination Program (CLEP) and Defense Activity for Non-Traditional Education Support (DANTES). More information about acceptable examinations is available in the *HSC Catalog*.

PROGRAM COSTS

Total program costs for tuition and fees, parking permits, health and liability insurance, etc., for the Bachelor of Science degree program range from approximately \$6000 to \$8200, depending on the track. In addition, costs for other expenses such as textbooks, course manuals, equipment lease, uniforms or scrubs, and supplies are approximately \$2000.

BACKGROUND CHECKS

All students offered admission to HSC programs must pass a
(over)

background check. An offer of admission will not be final until completion of the background check(s) with results deemed favorable. Students must pay costs for the background check. Information on how to order and pay for the background check is included in the offer of admission letter.

CORE CURRICULUM

All students earning a bachelor's degree from a Texas public college or university must complete the Texas Core Curriculum. Some program prerequisites may satisfy the HSC's Core Curriculum requirements.

	Semester Hours
English rhetoric/composition	6
Mathematics	6
Must include:	
• 3 hours in college-level algebra equivalent, or above	
• 3 hours in Statistics	
Natural Sciences	9
Humanities & Visual and Performing Arts	6
Must include:	
• 3 hours in visual/performing arts (prefixes such as: ARTS, DANC, MUAP, MUEN, MUSI, DRAM, etc.)	
• 3 hours in humanities (such as literature, philosophy, modern or classical language/literature, and cultural studies)	
Social and Behavioral Sciences	15
Must include:	
• 6 hours in U.S. history	
• 6 hours in political science (U. S. and Texas constitutions)	
• 3 hours in social/behavioral science	
Core Curriculum Requirements Total	42

BACHELOR OF SCIENCE DEGREE CURRICULA

The Bachelor of Science in Dental Laboratory Sciences consists of 120 semester credit hours including Texas Core Curriculum and prerequisites (see Admission Requirements, above) and at least 30 semester credit hours of Dental Laboratory Sciences coursework. The curricula for the Theory and Practice Track and the Laboratory Operations Track consist of 18 semester credit hours of required courses and at least 12 semester credit hours of electives (total of 30). The curriculum for the Advanced Technology Applications Track consists of 18 semester credit hours of required courses and at least 30 semester credit hours of electives (total of 48).

Junior Year Fall Semester

	Credit Hours
Required Courses	
DELT 3001 Introduction to Dental Laboratory Operations	3.0
DELT 3045 Introduction to Dental Research	3.0
DELT 4013 Compliance Issues in the Dental Laboratory Profession	3.0
Elective Courses	
DELT 3005 Advanced Laboratory Procedures I	4.0
DELT 3043 Current Issues in the Dental Laboratory Profession	3.0
Semester Total (Required Courses)	9.0

**Application Deadlines:
July 31 for fall semester
November 15 for spring semester**

Spring Semester

	Credit Hours
Required Courses	
DELT 3041 Innovations in Dental Technology	3.0
DELT 3047 Case Presentation	3.0
DELT 4007 QA/QC in the Dental Laboratory	3.0
Elective Courses	
DELT 3015 Advanced Laboratory Procedures II	4.0
DELT 3043 Current Issues in the Dental Laboratory Profession	3.0
Semester Total (Required Courses)	9.0

Summer Semester

	Credit Hours
Elective Courses	
DELT 3013 Development of Education and Training Programs	3.0
DELT 3035 Dental Laboratory Operation Strategies	3.0
DELT 4005 Advanced Laboratory Procedures III	4.0

Senior Year Fall Semester

	Credit Hours
Elective Courses	
DELT 3037 Internship in Education and Training	8.0
DELT 4021 Internship in Dental Laboratory Production	8.0
DELT 4022 Internship in Dental Laboratory Operations	8.0
DELT 4090 Special Topics	1.0-8.0
DELT 4091 Independent Study	1.0-8.0

Spring Semester

	Credit Hours
Elective Courses	
DELT 4090 Special Topics	1.0-8.0
DELT 4091 Independent Study	1.0-8.0
DELT 4914 Dental Laboratory Operation and Production Seminar	3.0
Program Totals	
Required Courses Total	18.0
Elective Courses Total for Theory and Practice, and Laboratory Operations Tracks	12.0
Elective Courses Total for Advanced Technology Applications Track	30.0
Program Total (Theory and Practice, and Laboratory Operations Tracks)	30.0
Program Total (Advanced Technology Apps. Track)	48.0

CONTACT INFORMATION

Health Professions Welcome Center

(866) 802-6288 (toll-free)

(210) 567-8744

E-mail: shpwelcome@uthscsa.edu

Internet: <http://shpwelcome.uthscsa.edu>

Department of Dental Laboratory Sciences

(210) 567-3056

E-mail: dentallabtech@uthscsa.edu

Internet: <http://www.uthscsa.edu/shp/dls/>

Registrar

(210) 567-2660

E-mail: AHprospect@uthscsa.edu

Internet: http://studentservices.uthscsa.edu/GI_registrar.aspx

Financial Aid

<http://studentservices.uthscsa.edu/financialAid.aspx>