



# CAREER PATHWAYS FOR SUCCESS

A DUAL ENROLLMENT CAREER PATHWAY FOR EXPANDED DUTY DENTAL ASSISTING

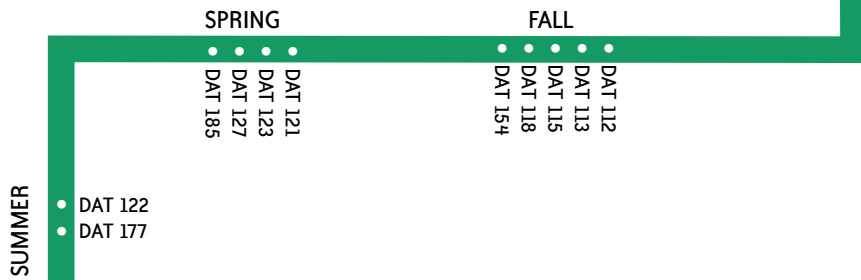
For Health Science Technology students:  
TAP credit available for AHS 102 with successful completion of TAP exam.

## 12<sup>th</sup> Grade:



**High School Graduation**  
WITH 12 HOURS COLLEGE CREDIT TOWARD COMPLETION OF DENTAL ASSISTING CURRICULUM

\*These classes if you plan to continue education beyond Diploma in Expanded Duty Dental Assisting.



**EXPANDED DUTY DENTAL ASSISTING DIPLOMA**

**EXIT NOW**  
Annual MEDIAN \$36,975

### Graduate from High School with 12 Hours of College Credit

- Take your dual enrollment courses at one of TCTC's campuses alongside college students or at a college site in your school district.
- Get a head start on your Dental Assisting (DAT) program by completing some or all DAT general education courses while still in high school.
- Be ready to begin DAT courses in the fall and graduate with your Expanded Duty Dental Assisting Diploma in 3 semesters.
- Upon completion of the DAT program, become a Certified Dental Assistant by completing the Dental Assisting National Board (DANB).
- As a Dental Assistant, qualify for employment with dental offices.
- The number of Dental Assistants employed in this region is expected to increase by 9.4% over the next four years, according to the Bureau of Labor Statistics.

**TRI-COUNTY TECHNICAL COLLEGE CONTACT:**  
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# COURSE DESCRIPTIONS

Dental Assistants are multi-skilled dental professionals trained to work in many specialty areas of dentistry, including restorative dentistry and preventive oral health care. Students learn the skills necessary to provide patient education, apply pit and fissure sealants, produce intra-oral and extra-oral radiographs, polish teeth and fillings, assist the dentist, prepare dental materials, and manage dental offices.

## **AHS 102 - Medical Vocabulary**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course covers medical terms, including roots, prefixes, and suffixes, with emphasis on spelling, definition, and pronunciation.

## **DAT 112 - Integrated Human Sciences**

Class Hours: 3 Lab Hours: 3 Credit Hours: 4

This course provides a basic study of human anatomy, physiology, and microbiology as related to dental science and the practice of dental assisting.

## **DAT 113 - Dental Materials**

Class Hours: 3 Lab Hours: 3 Credit Hours: 4

This course is a study of physical and chemical properties of matter and identification, characteristics, and manipulation of dental materials.

## **DAT 115 - Ethics and Professionalism**

Class Hours: 1 Lab Hours: 0 Credit Hours: 1

This course introduces a cursory history of dental assisting, professional associations, scope of service in dentistry, and ethical, legal and professional considerations. The state dental practice act is reviewed.

## **DAT 118 - Dental Morphology**

Class Hours: 1 Lab Hours: 3 Credit Hours: 2

This course emphasizes the development, eruption, and individual characteristics of each tooth and surrounding structures.

## **DAT 121 - Dental Health Education**

Class Hours: 1 Lab Hours: 3 Credit Hours: 2

This course defines the responsibilities of the dental assistant in individual and community dental health education with emphasis on the etiology of dental disease, methods for prevention, and principles of nutrition in relationship to oral health and preventive dentistry.

## **DAT 122 - Dental Office Management**

Class Hours: 1 Lab Hours: 3 Credit Hours: 2

This course provides a study of the business aspect of a dental office.

## **DAT 123 - Oral Medicine/Oral Biology**

Class Hours: 2 Lab Hours: 3 Credit Hours: 3

This course presents a basic study of oral pathology, pharmacology, nutrition, and common emergencies as related to the role of the dental assistant.

## **DAT 127 - Dental Radiography**

Class Hours: 3 Lab Hours: 3 Credit Hours: 4

This course provides the fundamental background and theory for the safe and effective use of x-radiation in dentistry. It encompasses the history of x-rays, production and uses of radiation, radiographic film, exposure factors, interpretation of radiographs, and radiation hygiene.

## **DAT 154 - Clinical Procedures I**

Class Hours: 2 Lab Hours: 6 Credit Hours: 4

This course includes preparation to assist a dentist efficiently in four-handed dentistry. Emphasis is on the names and functions of all dental instruments, the principles involved in their use, and the assistants' role in dental instrumentation.

## **DAT 177 - Dental Office Experience**

Class Hours: 2 Lab Hours: 15 Credit Hours: 7

This course consists of practice in the dental office or clinic with rotation of assignments to encompass experiences in office management and clinical experience in all areas of dentistry.

## **DAT 185 - Dental Specialties**

Class Hours: 1 Lab Hours: 12 Credit Hours: 5

This course covers the equipment and procedures related to dental specialties used in clinical experiences.

## **ENG 101 - English Composition I**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This is a (college transfer) course in which the following topics are presented: a study of composition in conjunction with appropriate literary selections, with frequent theme assignments to reinforce effective writing. A review of standard usage and the basic techniques of research are also presented.

Prerequisites: Satisfactory Writing placement score or a grade of C or higher in ENG 100 or in ENG 155 and satisfactory Reading placement score or a grade of C or higher in RDG 100.

## **ENG 155 - Communications I**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course introduces the principles of expository writing and public speaking through practice and development of communication skills.

Prerequisites: Satisfactory Writing placement score or grade of C or higher in ENG 032 and satisfactory Reading placement score or a grade of C or higher in RDG 100.

Note: This course cannot be used for an AA or AS degree.

## **MAT 120 - Probability and Statistics**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes the following topics: introductory probability and statistics, including organization of data; sample space concepts; random variables; counting problems; binomial and normal distributions; central limit theorem; confidence intervals and test hypothesis for large and small samples; types I and II errors; linear regression and correlation.

Prerequisites: Satisfactory math placement score; or MAT 102 with a grade of C or above, or MAT 101 with a grade of A. And a Compass Reading score of 83 or RDG 100 with a grade of C or better or ENG 101 with a grade of C or better.

## **MAT 155 - Contemporary Mathematics**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes techniques and applications of the following topics: elementary number theory; algebra; geometry; measurement; graph sketching and interpretations, and descriptive statistics.

Prerequisites: Satisfactory math placement score or MAT 032 with a grade of C or better.

Note: This course cannot be used for an AA or AS degree.

## **PSY 103 - Human Relations**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course is a study of human relations, including the dynamics of behavior, interrelationships, and personality as applied in everyday life.

## **PSY 201 - General Psychology**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes the following topics and concepts in the science of behavior: scientific method, biological bases for behavior, perception, motivation, learning memory, development, personality, abnormal behavior, therapeutic techniques, and social psychology.

Prerequisites: Reading and writing placement scores for ENG 101 or completion of ENG 100, ENG 101, or ENG 155 with a grade of C or higher. BIO 101 strongly recommended.

## **SPC 205 - Public Speaking**

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course is an introduction to principles of public speaking with application of speaking skills.

Prerequisites: A grade of C or higher in ENG 101 or in ENG 103 or in ENG 155 or in ENG 156.