



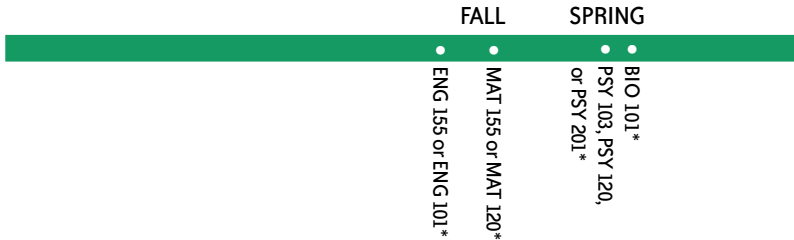
CAREER PATHWAYS FOR SUCCESS

A DUAL ENROLLMENT CAREER PATHWAY FOR MEDICAL ASSISTING

For Health Science Technology students:

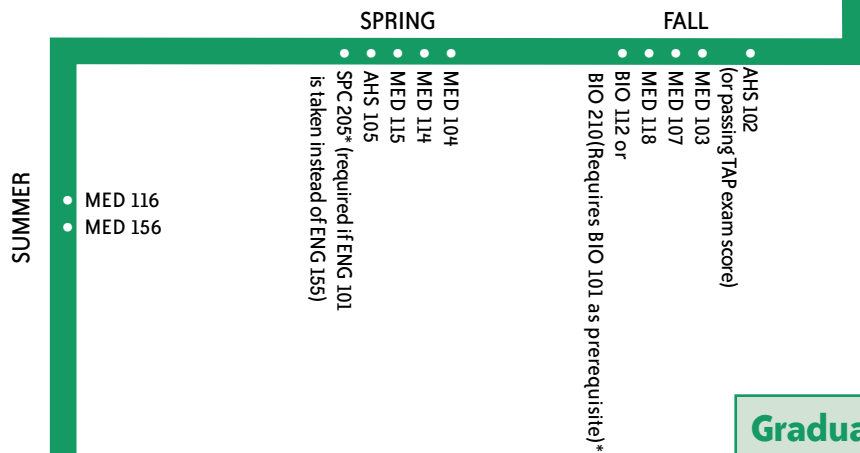
TAP credit available for AHS 102 with successful completion of TAP exam.

12th Grade:



High School Graduation
 WITH UP TO 12 HOURS COLLEGE CREDIT TOWARD COMPLETION OF MEDICAL ASSISTING CURRICULUM

*These classes if you plan to continue education beyond Diploma in Medical Assisting.



EXIT NOW

Annual MEDIAN \$30,840

MEDICAL ASSISTING DIPLOMA

Graduate from High School with up to 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 Medical Assisting (MED) program by completing some or all MED general education courses while still in high school.
- Be ready to begin MED courses in the fall and graduate with your Medical Assisting Diploma in 3 semesters.
- Upon completion of the MED program, become a Certified Medical Assistant after passing the AAMA (American Association of Medical Assistants).
- As a Medical Assistant, qualify for employment with physician offices, labs, or other ambulatory care centers.
- The Bureau of Labor Statistics predicts Medical Assisting as one of the fastest growing professions with an increase of 21% from 2019-2028.

TRI-COUNTY TECHNICAL COLLEGE CONTACT:

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COURSE DESCRIPTIONS

Medical assistants are multi-skilled health professionals specifically educated to work in ambulatory settings, performing administrative and clinical duties. The practice of medical assisting directly influences the public's health and well-being and requires mastery of a complex body of knowledge and specialized skills requiring both formal education and practical experience that serve as standards for entry into the profession.

AHS 102 - Medical Terminology

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.

AHS 104 - Medical Vocabulary/Anatomy and Physiology

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

This course introduces the fundamental principles of medical terminology and includes a survey of human anatomy and physiology.

AHS 105 - Medical Ethics and Law

Class Hours: 2 Lab Hours: 0 Credit Hours: 2

This course provides a study of ethical conduct and legal responsibility related to health care.

BIO 101 - Biological Science I

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

This course is the first of a sequence introducing biology. Topics include the scientific method, basic biochemistry, cell structure and function, cell physiology, cell reproduction and development, Mendelian genetics, population genetics, natural selection, evolution, and ecology. Laboratory requirement supplements lectures.

Prerequisites: Satisfactory placement test scores for ENG 101 and MAT 101, or completion of BIO 100 or BIO 105 and CHM 100. If a student does not earn a C or higher in 3 attempts at BIO 101, the following prerequisites will apply: BIO 100 or BIO 105 and CHM 100. All prerequisites require C or higher.

Note: Credit may not be earned for both BIO 101 and BIO 113.

BIO 112 - Basic Anatomy and Physiology

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

This course is a basic integrated study of the structure and function of the human body. Topics include the anatomy and physiology of cells, tissues, organs, and systems. Laboratory requirement supplements lectures.

Prerequisites: Completion of BIO 105 with grade of C or better recommended.

Note: Credit may not be earned for both BIO 112 and BIO 210. This course will not satisfy any Associate of Science requirements.

BIO 210 - Anatomy and Physiology I

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

This is the first in a sequence of courses, including an intensive coverage of the body as an integrated whole. All body systems are studied. Topics include terminology, biological chemistry, cells, tissues, and the following systems: integumentary, skeletal, muscular, nervous, special senses. Laboratory requirement supplements lecture.

Prerequisites: Completion of BIO 101 or BIO 113 with a grade of C or better.

Note: Credit may not be earned for both BIO 210 and BIO 112.

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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.

MED 103 - Medical Assisting Introduction

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

This course provides an introduction to the profession of medical assisting, including qualifications, duties, and the role of the medical assistant.

MED 104 - Medical Assisting Administrative Procedures

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

This course provides a study of receptionist duties, patient record management, insurance claims processing, ICD-9CM, CPT and HCPCS coding, letter writing, computer applications, and the use of other business machines.

Prerequisites: MED 103.

MED 107 - Medical Office Management

Class Hours: 4 Lab Hours: 0 Credit Hours: 4

This course provides a study of the principles and practices of banking and accounting procedures, billing methods, and office management.

MED 114 - Medical Assisting Clinical Procedures

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

This course covers examination room techniques, including

vital signs, specialty examination, minor surgical techniques, and emergency procedures.

MED 115 - Medical Office Lab Procedures I

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

This course provides a study of laboratory techniques commonly used in physicians' offices and other facilities.

Prerequisites: MED 103.

MED 116 - Medical Office Lab Procedures II

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

This course includes the study of laboratory techniques commonly used in physicians' offices and other facilities.

Prerequisites: MED 115.

MED 118 - Pharmacology for the Medical Assistant

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

This course provides a study of medical office pharmacology and drug calculations along with medication preparation and administration.

MED 156 - Clinical Experience I

Class Hours: 2 Lab Hours: 12 Credit Hours: 6

This course provides direct experience in a physician's office or other selected medical facilities.

Prerequisites: MED 115.

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.

Prerequisites: MED 115.

PSY 120 - Organizational Psychology

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

This course is a study of basic psychological principles of supervision and organizational dynamics and includes the application of psychological concepts of human behavior to the self, groups, and the workplace.

This course counts as elective credit only in the AA and AS degree programs.

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, ENG 103, ENG 155, or ENG 156.

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