



## Biomedical Technology

### Course Description

The Biomedical Technology Program's mission is to provide the technical instruction and skill development to enable the students to become successful in the allied health field or as biomedical assistant technicians. Topics covered will include understanding laboratory procedures fundamental to biomedical research which include recombinant DNA, protein purification, cell and tissue culture. The curriculum includes lecture, laboratory activities, and guest speakers. Topics include: introduction to Biomedical applications, clinical laboratory skills, medical terminology, scientific research, communication and workplace skills. During the last trimester, the students will have clinical opportunities available through the Biotechnology companies. The biomedical students must complete the prescribed course of study and clinical experience to receive the diploma.

Upon successful completion of the Biomedical Technology Program, students will possess the knowledge, skills, and abilities required to effectively begin an entry-level health care position according to relevant industry standards.

Courses will be offered at the Instructional Service Center in Independence High School at Thompson Station, Tennessee.

### Admission Requirements:

- Applicants must be 18 years of age or a dual enrolled high school junior or senior
- Complete a TTCM Application
- Provide a regular high school diploma or GED transcript
- Pass the required entrance exam
- Personal Interview

Students are subject to drug screening and a criminal background check based upon clinical affiliation agreements.

### Financial Aid

Financial aid is available to those who qualify through the Federal Pell Grant, Wilder-Naifeh Technical Skills Grant, WIA, and Scholarships.

**Tennessee Technology Center  
at Murfreesboro**  
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### 1st Trimester Courses:

Keytrain	30 hours
Worker Characteristics/Ethics	55 hours
Intro to BioMedical	50 hours
Medical Math	50 hours
Applied English	30 hours
Medical Terminology	50 hours
Safety	15 hours
Intro to Labs	<u>15 hours</u>
	300 hours

### 2nd Trimester Courses:

Anatomy and Physiology	50 hours
Information Systems	50 hours
Basic Pharmacology	30 hours
Clinical Lab	50 hours
Scientific Research	80 hours
Intro to Clinical Lab	20 hours
Medical Policies & Procedures	<u>20 hours</u>
	300 hours

### 3rd Trimester Courses:

Senior Seminar	30 hours
Clinicals	<u>270 hours</u>
	300 hours

### Diploma

Biomedical Technician 900 Hours

### About the Center...

The Tennessee Technology Center at Murfreesboro is located near the geographical center of the state, just off of Interstate 24 and the intersection of State Highway 96 and 99. The Center is governed by the Tennessee Board of Regents and is accredited by the Commission of the Council on Occupational Education.

The Center offers a variety of programs to fill demonstrated needs in the local community. Our students come from Rutherford and all the other surrounding counties. The instructors are all professionals in the fields in which they teach and several have been recognized statewide and nationally.

The Biomedical Technology Program is part time, four days a week for 300 hours a term. Supplemental classes are offered at night each term.

The calendar of the Tennessee Technology Center at Murfreesboro is based on three equal trimesters. The three trimesters are:  
Fall—September, October, November, December  
Spring—January, February, March, April  
Summer—May, June, July, August

### -STATEMENT OF ASSURANCE-

As set forth in its student catalog, Tennessee Technology Center at Murfreesboro does not discriminate on the basis of race, color, creed, national origin, gender, religion, disability, age, veteran status, or citizenship status. The Assistant Director, Judy Henegar, at the TTCM is the Affirmative Action Officer and Title IX Coordinator for the Center. Chris Ayers, Coordinator of Student Services, is the contact for TTCM students with disabilities.



Tennessee Technology Center at Murfreesboro, a unit of the  
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