ABOUT THE PROGRAM

Materials Technology is a multidisciplinary field, working at the crossroads of physics, chemistry, biology, engineering, and information technology. Developments that are transforming our world – from the solar cells and fuel cells used in energy sector to the novel composites that hold the prospect of artificial skin for burn victims – all rely on the innovative properties, behaviors, and performance of metals, plastics, ceramics, biomaterials, electronic materials. Materials technology is an emerging discipline that works at the forefront of technology, weaving in applied science with engineering to compose new products—many of which have the potential to greatly improve quality of life.

The Associate of Applied Science in Advanced Materials Technology prepares students for both employment in a broad-range of materials-related industries and transfer to a baccalaureate program through a competency-based curriculum and hands-on training.

The Level-1 Certificate in Semiconductor Manufacturing Technology prepares students for the emerging semiconductor manufacturing industries that support semiconductor Fab units, microelectromechanical systems (MEMS), solar cells, light-emitting diodes (LEDs), and electronics packaging.

The Level-1 certificate in Nanobiotechnology will prepare students to work on the interface between nanotechnology and biotechnology, also known as nanobiotechnology.

ADMISSIONS

We have an open door admissions policy to ensure that every person has the opportunity to get a college education.

TYPES OF AWARDS OFFERED

Associate of Applied Science
Advanced Technical Certificate
Certificate-Semiconductor Manufacturing Technology
Certificate-Nanobiotechnology
The following titles are examples of careers associated with this program but not limited to:

- Semiconductor processing technician
- Test technician
- Materials technician
- Composites manufacturing technician
- Quality assurance technician
- Reliability engineer.

Occupational profiles indicate 22% growth for Materials Engineers by the year 2022 in the Alamo Region. Estimated average hourly wage is $25.39* in the Alamo Region.

(Source: SOCRATES-Occupational Profiles-Alamo Region)

*Note: Variations should be expected.
Career and Technical programs are created by faculty and industry professionals to ensure curriculum and training are aligned with current industry practices and trends. All workforce programs are designed to be completed in two years or less allowing graduates to begin their career immediately.

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