

To learn more about the Biotechnology program, including admission requirements, call the Science and Mathematics Division at the Southeast Campus at (918) 595-7742, the Counseling Center at (918) 595-7651, or Diana Spencer, Ph.D., Instructor/ Coordinator of Biotechnology at (918) 595-8605.



Metro Campus

909 S. Boston
Tulsa, OK 74119

West Campus

7505 W. 41st
Tulsa, OK 74107

Northeast Campus

3727 E. Apache
Tulsa, OK 74115

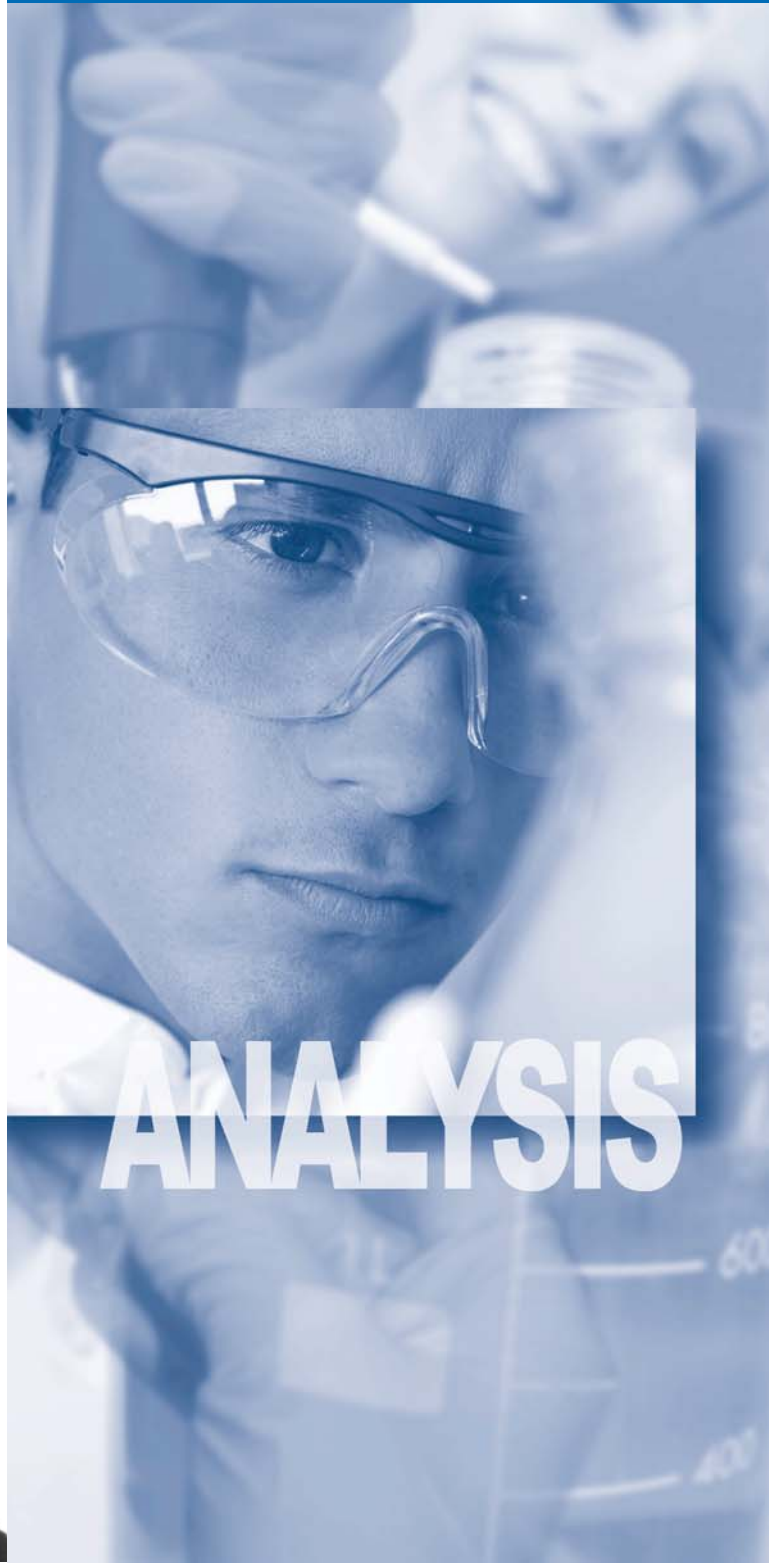
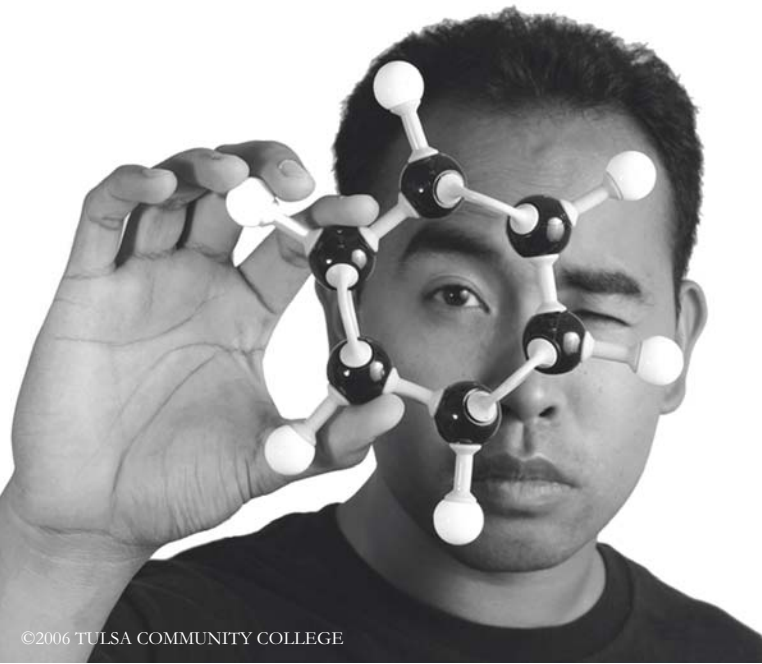
Conference Center

6111 E. Skelly Drive
Tulsa, OK 74135

Southeast Campus

10300 E. 81st St. So.
Tulsa, OK 74133

www.tulsacc.edu



Biotechnology

It is an exciting time to be studying biotechnology in a science lab. Recent advances in biotechnology have had an impact on many aspects of the world: agriculture, forensic analysis, medicine, research and bioethics. This cutting-edge science will provide the tools to solve important scientific problems for the benefit of man and the environment. TCC's Biotechnology program will equip graduates to perform vital research in laboratory settings.



What is Biotechnology?

Biotechnology may be defined as the use of living organisms or biomolecular processes to make useful products or solve a problem. The genetic code is understood by many different types of cells, and this unity of life is the foundation for biotechnology. The similarity at the molecular level gives great flexibility in utilizing nature's settings.

Biotechnology Program Objectives

Students will be educated in the fundamentals of biology, chemistry and biochemistry with a heavy emphasis on a wide range of laboratory procedures. Lab safety, protein isolation and separation techniques, cell culture, molecular biology and recombinant DNA are all skills sets students will learn.



Tulsa Community College



Associate Degree & Certificate Options

The Biotechnology program offers an Associate of Science, and Associate of Applied Science and a Certificate program to meet the needs of a varied population.

The Associate of Applied Science in Biotechnology degree is a two-year program which requires 64 hours to complete. A combination of lecture, laboratory instruction and internship in a local industry or research facility will prepare graduates to enter the workforce trained in a wide variety of skills including genetic engineering and DNA analysis, protein purification and cell culture. This program is designed to train students to enter the job market immediately after completion.

The Associate of Science in Biotechnology degree is a two-year program generally completed in the first two years of a four-year curriculum. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

A Biotechnology Laboratory Techniques Certificate is offered for the nontraditional student. This is intended for a student who may already have a degree in another field and wants to update his/her skills with the latest research technologies.

It is part of the operational policy of Tulsa Community College to practice non-discrimination in employment. It is against the policy of the community college to discriminate against, or exclude from participation in benefits or activities either on the staff or in the student body, any person on the grounds of race, color, age, sex, disability, national origin, or status as a veteran. This publication was prepared and distributed on authorization of the Tulsa Community College Regents as a part of their regular work of the college. There were 5,000 copies printed by Press Group at a cost of \$625.00 (.125 per copy).



Biotechnology

Employment Opportunities & Job Outlook

There is an unmet need for entry-level lab workers who possess an understanding of the techniques and technologies associated with the emerging biotechnology field. Biotechnology graduates may be employed at hospitals, public and private research institutes and independent laboratories. The Oklahoma Employment Security Commission in 2005 stated the occupation of biological technician is one of the 30 fastest-growing jobs in the state, with the number of technicians expected to increase by 26 percent from 2002 to 2012.