

MATHEMATICS, ENGINEERING AND COMPUTER SCIENCE

THE PROGRAM

South Plains College is a comprehensive community college and provides its math, engineering, and computer science students with an excellent two-year course of study that transfers to a university. The department offers three transfer options for students that include computer science, mathematics and pre-engineering. Faculty devote their time and energy solely to teaching and helping students, rather than on research. Faculty in the Math and Engineering Department also hold the credentials necessary to teach the freshman and sophomore courses that will lay the foundation for your career in math and engineering fields. All faculty members hold master's degrees in their respective fields with additional post-graduate hours of study.

The faculty's concern for their students, combined with their academic qualifications, add up to the personal attention you deserve that will help you succeed in your college experience.

DEPARTMENT FACILITIES

Facilities for both the math and engineering programs at South Plains College are excellent. The programs are housed in the 12,000 square foot Mathematics and Engineering Building, which features nine classrooms plus special engineering and tutorial labs. The programs offer you a variety of facilities and equipment to guarantee your success.

- *An extensive tutorial lab contains tutors and resources to help students with their math classes.*
- *You will get hands-on experience working with the latest computer equipment and software. The three computer labs support high-level performance C scientific language software, computer-aided drafting programs, and other programming languages.*
- *Students work with engineering graphics equipment available in a course designed for pre-engineering majors.*
- *A variety of computer software packages enable you to check homework assignments.*
- *A Makerspace is available for students to study, learn, create, innovate, and collaborate.*
- *An engineering lab allows students to use engineering design to build, create, innovate, and test projects.*



CURRICULUM PATTERN

The recommended pre-engineering transfer program consists of 66 semester hours of selected academic courses. Students in the program take courses in engineering design, mathematics, computer science, English, chemistry, physics, history, government, speech and the arts. Completion of the course of study leads to an associate degree of science degree from South Plains College.

The two-year curriculum for mathematics majors consists of 66 semester hours of courses which include computer science, English, economics, physical education, government, history, speech and the arts in addition to freshman and sophomore-level mathematics courses. Graduates of this program also earn an associate of science degree.

The computer science program consists of 66 semester hours of recommended courses that include computer science, mathematics, chemistry, English, history, government, speech, physics, economics, philosophy and the arts. Students who complete the course of study receive an associate of science degree.

For specific degree plans and course descriptions, consult the General Catalog, contact the Guidance and Counseling Office or visit the South Plains College website.

GRADUATE SUCCESS

SPC's math and engineering graduates traditionally do well when they transfer to universities. Many are granted scholarships and nearly 100 percent complete a baccalaureate program.

After graduation, students find employment in leading businesses and industries throughout the nation. For example, one SPC math and engineering graduate has worked with the space shuttle project and was honored as a Distinguished Alumnus of South Plains College. Another is considered one of the leading consultants in the nation on aeronautical engineering.

CAREER OPPORTUNITIES

Just a decade ago, graduates of traditional math programs turned largely to teaching or jobs dealing directly with mathematical figures. Today, business and industry are hiring employees with the ability to think logically and clearly and people with math backgrounds. They get jobs as computer experts, supervisors for large firms and a wide range of positions relating to production or research. Career opportunities for the math-minded person are almost unlimited.

Likewise, career opportunities in the computer science, and engineering, engineering technology fields are growing at phenomenal rates. Persons with a solid background in computer science, engineering, and engineering technology find they have marketable skills in a diverse range of job opportunities. They can specialize in mechanical, electrical, industrial, civil, petroleum, chemical, environmental, aeronautical and nuclear engineering areas. Additional specialization takes the engineer into design, development, testing and research. Engineers are responsible for the creative design of products or equipment, while the engineering technologist does the hands-on application of skills in the field, bringing the design to practical use.

SCHOLARSHIPS

Prospective students who plan to enroll are encouraged to apply for scholarships offered at SPC. A list of scholarships is available by contacting the Office of New Student Relations. Scholarship applications are due March 1.

FOR MORE INFO:

Dr. Sheyleah V. Harris-Plant

Chairperson of the Math and Engineering Department

Professor of Mathematics

Levelland Campus

806.716.2665

sharris@southplainscollege.edu



QUALITY EDUCATION AT AN AFFORDABLE PRICE
WWW.SOUTHPLAINSCOLLEGE.EDU

Prospective Students: You may view SPC's Annual Security Report and Fire Safety Report online at https://myspc.southplainscollege.edu/ICS/Safety_and_Health/Annual_Security_Report.jnz. Printed copies are available upon request from the Vice President of Student Affairs, 806.716.2360. This contact information should only be used to obtain these reports.

South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs • South Plains College • 1401 College Avenue, Box 5 • Levelland, TX 79336 • 806.716.2360