



SOUTH PLAINS COLLEGE

COMPUTER-AIDED DRAFTING AND DESIGN TECHNOLOGY

THE PROGRAM

Computer-Aided Drafting and Design (CADD) Technology program offered at South Plains College is designed to train you in the skills of engineering and architectural drawing and design. Located on the college's Levelland Campus, this comprehensive technical program prepares you for an entry-level position in machine design, architectural design, structural design, topography, technical illustration and other activities that emphasize the application of engineering drawing and technical knowledge for the solution of practical industrial problems.

Students gain valuable hands-on training through the use of equipment and facilities parallel to that found in industry. To assure graduates a competitive skill level for the job market, an advisory committee of engineers and experienced technicians form a team that studies current trends in business and industry and periodically recommends program upgrading and changes.

CADD FACILITIES

In addition to standard engineering drawing practices and principles, business and industry require CADD technicians to have hands-on experience with the most current CADD software, computers and technical peripheral equipment. SPC responds to this need with a well-equipped CADD facility that supports a superior learning environment.

Located in the Technical Arts Center, the Computer-Aided Drafting and Design Technology program contains spacious lecture and laboratory areas. Next to the lecture and laboratory areas are a printer room and a central file area. This arrangement makes a noise free environment and allows the conducting of several classes at one time.

The classroom lecture/lab areas are very comfortable with heating and air conditioning, excellent lighting, carpet, large computer desks, comfortable seating, state of the art software, computers and peripheral equipment that would represent the work environment found in business and industry.

PROGRAM OF STUDY

The two-year Computer-Aided Drafting and Design Technology program consists of selected course work designed to provide the student with the general knowledge, practical skills, and competencies necessary for a successful career in Computer-Aided Drafting and Design. Upon completion of this curriculum, the student is awarded an Associate of Applied Science degree, or has the option of the TSI waived certificate curriculum of college-level CAD courses that provide the fundamental skills and knowledge for an entry-level position.

The curriculum includes technical drawing courses that provide a basic and advanced study of the major areas of engineering drawing. The certificate program requires the following courses.

- *Engineering Graphics*
- *Technical Drafting*
- *Architectural Computer Graphics*
- *Intermediate Architectural Drafting-Residential*
- *Machine Drafting*
- *Advanced Computer-Aided Drafting*
- *Pipe Drafting*
- *Final Project-Advanced Drafting*
- *Approved Drafting Elective from:*
 - *Topographical Drafting*
 - *Architectural Drafting - Commercial*
 - *Academic Strategies*

The associate degree includes the above listed drafting courses plus the following courses:

- *Structural Drafting*
- *Solid Modeling*
- *Intro to Technical Animation and Rendering*

The associate degree also requires the following general education courses:

- *English Composition I*
- *History of U.S. Since 1876*
- *College Algebra*
- *Business & Professional Speech*
- *Humanities/Fine Arts Elective*

For more specific curriculum information, please consult the current General Catalog.



DEGREE AND CERTIFICATE OPTIONS

The Computer-Aided Drafting and Design and Design Technology program at South Plains College is designed specifically for students who seek marketable technical skills after two years of education or one year for the certificate option.

Upon completion of either the AAS curriculum, or certificate, the student may choose to pursue a bachelor's degree. Selected courses from the curriculum will transfer to certain universities and four year colleges toward a major in industrial technology, engineering technology, various areas of engineering, and teacher education. Students with transfer plans should consult the faculty advisor early in their college career.

YOUR CAREER IN COMPUTER-AIDED DRAFTING AND DESIGN TECHNOLOGY

The industrial world is one of exciting and continuous change. The complexities brought about by change demand that you develop specialized skills and a through knowledge of a particular career area. Emerging from this background is one of the most challenging and satisfying jobs - Computer-Aided Drafting and Design Technology.

Engineering drawing deals with the communication of ideas in the form of pictorial representations or working drawings. There are many different occupations within the computer-aided drafting and design field. Specialized CADD career fields include architectural, structural, mechanical, process piping, electrical, electronics, aeronautical, aerospace, civil and technical illustration.

The CADD technician may expect to work 40 hours a week in a clean, well-lighted, air-conditioned room or office. Artistic ability is not necessary, for the actual technical drawing is generated through modern drafting equipment, computers and computer software. Computer-aided drafting and design has become the industry standard, requiring knowledge of current computer hardware and software.

The demand for new products in a fast-paced society has sustained the need for specialists in engineering drawing professions. Most large organizations employing CADD technicians will continue to recruit qualified young men and women to fill new positions across the nation.

FOR MORE INFO:

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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