COURSE SYLLABUS

Computer Aided Drafting & Design
Industrial Technology Department
Technical Education Division
South Plains College
Levelland Campus

SOUTH PLAINS COLLEGE

Instructor: Terry Stucker
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Office Hrs: T/T: 1:00pm – 3:00pm / F: 8a to 12p (by appt)

COURSE INFORMATION

COURSE NUMBER	DFTG-1305-001
COURSE TITLE	Introduction to Technical Drawing
PREREQUISITE(S)	None
LOCATION	TA 207

TEXTBOOK   **Technical Drawing 101 with AutoCAD 2025** - Author: Smith, D., et.al. - Publisher: SDC Publications **(Provided as an E-book as part of the class on Blackboard)**

DESCRIPTION   This is a basic introductory course in the fundamentals of engineering drawing. This course is designed to build a strong foundation in the practices and principles of engineering drawing that includes: Routine engineering and drafting department customs, standard engineering and drafting terminology, the alphabet of lines, orthographic projection of multiple views, freehand sketching and dimensioning concepts. The student gains practical experience in geometric construction, size and shape description, projection methods, section views, auxiliary views, dimensioning and basic industrial manufacturing processes, and computer-aided drafting and design.

SCOPE   The scope of Introduction to Technical Drawing will be for sixteen weeks, which will include two (2) hours of lecture per week and four (4) hours of laboratory experience per week, for a total of ninety-six (96) contact hours per semester.

COURSE OUTCOMES   Demonstrate an understanding of geometric construction, various view selections, and principles of working drawings, competency in drafting principles in plane geometry, technical sketching, orthographic projection theory and practice, auxiliary views, and competency in sectioning, dimensioning, and defining tolerances.

COURSE TOPICS
1) Orientation
2) Alphabet of Lines
3) Shape Description / Geometric Construction
4) Multiview Projection / Orthographic Projection
6) Section & Auxiliary Views
7) Dimensioning Working Drawings
8) Computer Aided Drafting and Design

GRADING

WEIGHTS			SCALE		
Daily Assignments	**40%**			A	90 – 100%
Mid-Term	**20%**			B	80 – 89%
Final Exam	**20%**			C	70 – 79%
Attendance	**20%**			D	60 – 69%
				F	59% or Below

DAILY ASSIGNMENTS   Each practical drawing assignment will be calculated with 100 points as the highest possible grade.

Practical drawing assignments will be graded according to the following criteria:
1) Neatness
2) Line Criteria
3) Text Criteria
4) Dimensioning Criteria
5) Choice & Location of Views
6) Correctness & Accuracy of Views (shape description)
7) Nomenclature

QUIZZES/NOTES   Quizzes may be given periodically for the purpose of assessment. These quizzes will be administered over Blackboard and are open book / open notes format. They will count as an "assignment" and the corrections policy will apply to them.

MID-TERM / FINAL PROJECT   The mid-term and final projects will be comprehensive in nature, comprised of information from the previous lessons throughout the semester.

ASSIGNMENT CORRECTIONS   All required work must be turned in on time in order for the student to benefit from the corrections and to prepare for future assignments.

Assignments with a grade below 85, unless otherwise specified, can be corrected and resubmitted for an amended grade. You will have 1 additional week to complete corrections for an assignment. An amended grade will have a maximum value of **85**. This is a one-time correction process and does not apply to late or missing work.

Any assignments that are not turned in at the specified time and date will immediately receive a grade of Zero (0) – Late work will still be graded, but with a maximum grade of 85 – this will count as the students' correction.

All electronic classwork must be saved to your folder on the CAD server. Any assignment not on the server at the time of grading may receive a grade of Zero (0) – Improperly filed work will still be graded, after it is filed correctly, but with a maximum grade of 85 – this will count as the student's correction.

CLASSROOM POLICIES

DISCLAIMER   The instructor reserves the right to amend any class policies or syllabus content as deemed necessary by South Plains College and will announce such changes ahead of time to the class. If a student has any questions about a change in policy, they have the right to discuss said change with the instructor.

ATTENDANCE   **Four absences**, for any reason, are allowed per semester. Tardies, defined as not being present in class within 5 five minutes of the start of lecture, or leaving lab early by an hour or more, will count against your attendance grade. Your grade will drop one letter grade per each absence over the allowable limit. Six absences could result in the student being dropped from the course.

Whenever absences near the policy threshold, the student will be notified by an advisor and made aware of the situation. Subsequent absences will also be reported.

WITHDRAWAL   Any student wishing to drop this class should go through the proper procedure of initiating the withdrawal by obtaining a *drop form* from the Registrar's Office. This form must be signed by the instructor.

OTHER POLICIES   Food and drink will be allowed at a student's work station as long as computers are not affected in a negative way. Drinks must be covered and stored away from computers so as not to damage any component. All workstations must be thoroughly cleaned before a student leaves class.

Music is allowed in the classroom during <u>lab time only</u> - as long as it is played through headphones.

Phones should be muted during the lecture phase of class. Phones are permitted during lab time when used directly for research or class initiatives. If a call is necessary, please excuse yourself from the class to address the call.

Students should adhere to all other standards established in the SPC Catalog found under *Student Conduct*.

The computers within the CAD Lab have been optimally set to enhance learning for students. The configurations are set to establish a base of reference for all students, and so the instructor can optimize aid to each student. Please do not alter the configurations of any workstation or computer at any time. Lab computers are monitored remotely

TexBook Syllabus Statement
This course is part of your TexBook program, which means you don't need to purchase a textbook or access code for this course. TexBook is the required content (either an eBook or online Courseware) for your course, and is provided for you via the Bibliu platform from Day 1 of class.

- **Cost of TexBook:** this required content is provided as part of a Program called 'Inclusive Access', which means that content is provided for you at the lowest price available from the publisher. The cost for this is included in your tuition.
- How to access your digital content via Bibliu: you can access your material via the Bibliu link inside your Blackboard Course, or directly via the Bibliu app. If you have issues with this, please contact your professor, the Bookstore Manager or Bibliu Support (see below).
- **The Bibliu platform:** you can use the Bibliu platform to enhance your learning experience, with features including: highlighting, notes and reading text aloud. For more details and support on how to use Bibliu, please visit the BibliU support pages, or contact Bibliu support via the email: support@bibliu.com
- **Opting out:** you can Opt-Out of the TexBook Program, up until the Opt-Out deadline, via the banner displayed when you open the Bibliu platform. Remember that Opt-Out deadlines vary by term, and if you choose to Opt-Out you will lose access to this low price option, and will need to purchase the content through a different method. If you opt-Out, the fee will be refunded to your account.

Useful contacts:

1. Bibliu Support: email support@bibliu.com
2. Bookstore Manager: Christian Bruno - christian.bruno@bibliu.com
3. Bookstore Text Coordinator: Trish Wells - patricia.wells@bibliu.com

ACCOMMODATIONS

Accommodations such as the Diversity Statement, Disabilities Statement, Non-Discrimination Statement, Title IX Pregnancy Accommodations Statement and Campus Concealed Carry Statement can be found here: https://www.southplainscollege.edu/syllabusstatements/

In order to comply with institutional identity-verification procedures, students enrolled in this course must have a current photo available in the College's student information system. Approved photos are used solely for instructional, advising, and security purposes and are protected under applicable privacy laws. Students without a photo on file must update their record during the first week of class.
Instructions to add a photo – https://www.southplainscollege.edu/360uinstructionsposter2025.pdf

SOUTH PLAINS COLLEGE IMPROVES EACH STUDENT'S LIFE