

Engineering 1304 – Engineering Graphics 1 Section 002: Tuesday/Thursday 8:00-10:40 AM Room: Technical Arts Center, 209, Levelland Campus

Course Information

Textbook	<i>Technical Drawing with Engineering Graphics</i> by Gieseck, Lockhart, Goodman, and Johnson, 15 th edition, 2018, Pearson					
		<i>AutoCAD 2018: A Problem-Solving Approach, Basic and Intermediate</i> by Tickoo, 24 th edition, 2018, Purdue University				
Materials	Pencils, loose graph	Pencils, loose graphing paper, and ruler/calipers				
Description	drawing setup, cre	This course provides an introduction to basic computer-aided technical drawing. Emphasis on drawing setup, creating and modifying geometry, storing and retrieving predefined shapes, rotating and scaling objects, and adding text and dimensions.				
Purpose	-	Acquaint student with solutions to different mathematical problems covering algebra, trigonometry, and analytic geometry.				
Requirements		A student should attend all class sessions, take notes, participate in class, complete all lab assignments, and complete drawing projects.				
Learning Outcomes	 Demonstrate knowledge, skills, and practical proficiency in using CAD software Use correct Layouts and Lettering Understand Visualization and Sketch Objects Develop Geometry for Modeling and Design Orthographic Projection 2D Drawing Representations Section and Auxiliary Views Dimensioning Architecture skills 					
Grading						
Weights	Portfolio Daily Assignments Quiz Projects	5% 20% 15% 30% each	Grading Scale	90-100 80-89 70-79 60-69 0-59	A B C D F	
Portfolio					ng binder as a portfolio s it will be periodically	

checked at random by the instructor during the semester; Assignments and Quizzes must all be

separated by a labeled divider. Neatness and organization will be graded.

DailyEvery student must complete daily assignments during class lab time. This consists of
completing the required drawing as presented by the instructor by either printing or presenting
the completed drawing.

Quizzes Quizzes will be given periodically through the course which covers material presented by the instructor as well as material covered by the assigned textbooks.

ProjectsThere will be two projects assigned during the semester in lieu of examinations. Projects will be
a representation of each student's ability to show their skills using CAD software as it would be
applicable for future job requirements. Each project will be addressed during class as the
semester progresses. Instructions will be outlined and detailed in what is required.

Classroom Policies

- **Disclaimer** The instructor reserves the right to amend any class policies as deemed necessary by the instructor or South Plains College and will announce any changes in class. If a student has any questions about a change in policy ask the instructor.
- ComputerABSOLUTELY NO FOOD ALLOWED. Drinks must have a threaded cap to be allowed and mustClass Policybe put away when not in use. Music devices during lab assignment times are acceptable. Each
workstation must be cleaned and straightened before leaving the area.

ClassIn the event of class being canceled by the school/instructor, the student will be responsible forCancellationthe lecture material missed. The class will continue on the following class day. All informationPolicywill be on Blackboard and/or sent via email to be accessed by the student.

- AttendanceRecords of student attendance are maintained throughout the semester. Three absences, forPolicyany reason, are allotted to the student for the semester. Tardies count as one-half of an absence
and will be applied for leaving early. Once this condition is exceeded, the instructor has the right
to drop the student with an F or X grade at their discretion.
- **Withdrawal** To withdraw from this class, the student will need to go to the Admissions and Records office either on the Levelland campus or the Reese Center campus, and fill out a drop notification form.
- **Email Policy** The instructor will only acknowledge, respond, and send emails to your assigned SPC email. This ensures the intended recipient receives all correspondence from the instructor.
- Final Grading
PolicyAll grades are rounded from the tenths place, e.g. 80.5 = 81, 80.49 = 80. Upon the submission of
grades at the end of the semester. ALL GRADES ARE FINAL!

Returning The instructor will attempt to return grades by the next class meeting; however, the instructor reserves the right to have at least one (1) week to grade assignments and post grades from the due date.

Religious
 Section 51.911, Texas Education Code, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the first fifteen (15) days of the semester (Friday, 14 September 2018) in which the absence will occur. Forms for this purpose are available in the Student Services Office along with instructions and procedures. "Religious holy days" means a holy day observed by a religion whose place of worship is exempt from property taxation under Section 11.20, Tax Code.

Disabilities Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that appropriate arrangements may be made.

- **Diversity** The instructor will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate everyone to learn about others, the larger world, and ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is but also model society as it should and can be.
- SexualIt is important for students to know that all faculty members are mandated reporters of any
incidents of sexual misconduct. Faculty cannot keep information about sexual misconduct
confidential if students share that information. SPC offers advisors that students can
confidentially seek out in the Health & Wellness Center. These advisors have the best interest
in students and information can be accessed on campus or even in the local community.
- CampusCampus Concealed Carry Texas Senate Bill 11 (Government Code 411.2031, et al.) authorizesConcealedthe carrying of a concealed handgun in South Plains College buildings only by persons who haveCarrybeen issued and are in possession of a Texas License to Carry a Handgun. Qualified law
enforcement officers or those who are otherwise authorized to carry a concealed handgun in
the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South
Plains College policy, license holders may not carry a concealed handgun in restricted locations.
- AcademicStudents are expected to uphold the ideas of academic honesty; all work that is submitted for
grading must be your own. Violation of this policy will result in an F for the assignment(s) and
the student dropped with an F. For more details on what is considered cheating, see the South
Plains College catalog.
- **Equal** South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability, or age.
- Holiday/If a student has any pre-existing plans to travel during scheduled class times, the student must
inform the instructor no later than Thursday, September 6th, 2018. Failure to properly
inform of any missed class will result in forfeiture of any graded class work with no allowable
replacement/make-up work.
- **Recording**Students are not allowed to use recording devices such as audio or video during class unless
approved by the instructor

Resources Students may utilize free tutoring provided by SPC. Tutoring is available at all SPC campus locations. Please consult with the instructor for further information.

Week 1	August 28	Introduction, what is AutoCAD, drafting, and purposes			
	August 30	Phases of design, Problem Identification to Documentation			
Week 2	September 4	Labor Day Holiday extension, No Class			
	September 6	Introduction to AutoCAD 2018 software			
Week 3	September 11	Using toolbar/commands to create basic drawings for AutoCAD			
	September 13	Further practice using AutoCAD			
Week 4	September 18	Using a standardize template, appropriate layouts and lettering for drawings			
	September 20	Using different Coordinate systems			
Week 5	September 25	Fundamentals of visualization and sketching, glass box			
	September 27	Projections and views			
Week 6	October 2	2D Drawing representations			
	October 4	Continue drawing 2D representations			
Week 7	October 9	Project #1			
	October 11				
Week 8	October 16				
	October 18	Project #1 Due			
Week 9	October 23	Section Views			
	October 25	Auxiliary Views			
Week 10	October 30	Dimensioning			
	November 1	Tolerancing			
Week 11	November 6	Threads, Fasteners, and Springs			
	November 8	Gears and Cams			
Week 12	November 13	3D Modeling and assemblies			
	November 15	Continue of 3D Modeling			
Week 13	November 20	Architecture drawings			
	November 22	Thanksgiving Break			
Week 14	November 27	Project #2			
	November 29				
Week 15	December 4				
	December 6	Project #2 Due			