



**Instructor: Evan Vargas**  
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**Office Hours on Levelland Campus:**  
**M/W:** 4:30-5:15 – Reese, Building 2, 218  
**T/R:** 11:00-12:30 **F:** 9:00-1:00  
*Or by Appointment*

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

**Course Information**

- Textbook** Principles and Practice An Integrated Approach to Engineering Graphics and AutoCAD 2019  
**Author:** Shih **ISBN:** 9781630571894
- Materials** Flash drive, pencils, three ring binder, and ruler/calipers
- Description** 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**
1. Demonstrate knowledge, skills, and practical proficiency in using CAD software
  2. Using correct Layouts and Lettering
  3. Understand Visualization and Sketch Objects
  4. Develop Geometry for Modeling and Design
  5. Orthographic Projections
  6. 2D and 3D Drawing Representations
  7. Section and Auxiliary Views
  8. Dimensioning

**Grading**

<b>Weights</b>	Portfolio (2)	5%	<b>Grading Scale</b>	90-100+	A
	Daily Assignments	20%		80-89	B
	Quiz	15%		70-79	C
	Projects	30% each		60-69	D
	<b>Total</b>	<b>100%</b>		0-59	F

**Portfolio** Students must organize all course material in a single three ring binder as a portfolio of work completed. This binder should be brought to class every day as it will be periodically checked at random by the instructor during the semester; Assignments and Quizzes must all be separated by a labeled divider.

**Daily Assignments** Every student must complete daily assignments during class lab time. These drawings will be submitted to the instructor via printing or by Blackboard. Grading will be based on neatness, presentation, and the ability to follow directions.

**Quizzes** Quizzes will be given periodically and will cover material presented by the instructor. Quizzes may be handouts or computer based.

**Projects** There will be two projects assigned during the semester in lieu of examinations. Projects will be a representation of each student's ability to demonstrate their skills using CAD 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 alter 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 for clarification.

To successfully complete the course objectives, the students must already be prepared to factor algebraic expressions, reduce, add, subtract, multiply, divide, and simplify rational expressions, and simplify, add, subtract, multiply and divide exponential and radical expressions.

**Computer Class Policy** **ABSOLUTELY NO FOOD ALLOWED.** Drinks must have a threaded cap to be allowed and must be put away when not in use. Music devices during lab assignment times are accepted. Each workstation must be cleaned and straightened before leaving the area.

**Class Cancellation** In the event of the class being canceled by the school, the student will be responsible for the lecture material. The class will continue the calendar presented. All information needed will be on Blackboard and should be accessed by the student.

**Attendance** Records of your attendance are maintained throughout the semester. **Three absences, for any reason, are allotted to the student for the semester.** Tardies count as one-half (1/2) of an absence. Tardies will be applied for consistently being late to class, as deemed by the instructor and leaving class early. If this number is exceeded, the instructor has the right to drop you with a grade of F or an X, depending on their discretion. You can seek temporary reinstatement within a week after being withdrawn, assuming the student submits their syllabus receipt, but you must withdraw yourself from the course via the Admission and Records Office within two days of reinstatement. In the latter case, you will receive a W or a U. After the two days have expired, the instructor has the right to drop you for a final time, after which there will be no reinstatement.

**Final Grading** All 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**

**Email** All students at South Plains College are assigned a standardized SPC e-mail account. Although personal email addresses will continue to be collected, the assigned SPC e-mail account will be used as the official channel of communication for South Plains College. The Student Correspondence Policy can be found at [www.southplainscollege.edu](http://www.southplainscollege.edu). To access the SPC student e-mail account, log in to MySPC and click the SPC Google Mail option under Campus Bookmarks. **(Copied from SPC Student Guide)**

Since all students have an assigned SPC email, the instructor will only acknowledge, respond, and send emails to your assigned SPC email. This ensures all correspondence from the instructor is received by the intended recipient.

<b>Withdrawal</b>	If you wish to withdraw from this class for any reason, you must initiate the appropriate steps on your own. To withdraw from this class, you will need to go to the Admissions and Records office either on the Levelland campus, the Reese Center campus, or the Lubbock Center, and fill out a drop notification form, and pay \$5. The drop form can be obtained online in MySPC, under the Student Forms and Tools link. Please be aware that SPC may not permit an undergraduate student to drop a total of more than six courses (including any course a transfer student has dropped at another institution of higher education) if the student enrolled in college for the first time during the Fall 2007 academic term or any term after the Fall 2007 term
<b>Diversity Statement</b>	In this class, the teacher will establish and support an environment that values and nurtures individual and group difference and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about 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. (copied from current South Plains College Faculty Handbook)
<b>Disabilities Statement</b>	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 the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland Student Health & Wellness Center 806-716-2577, Reese Center (also covers Lubbock Center) Building 8: 806-716-4675, Plainview Center Main Office: 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529. (copied from current South Plains College Faculty Handbook)
<b>Religious Holy Days</b>	In accordance with 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 (Monday, 17 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. (copied from current South Plains College catalog)
<b>Sexual Misconduct</b>	As a faculty member, I am deeply invested in the well-being of each student I teach. I am here to assist you with your work in this course. If you come to me with other non-course-related concerns, I will do my best to help. It is important for you to know that all faculty members are mandated reporters of any incidents of sexual misconduct. That means that I cannot keep information about sexual misconduct confidential if you share that information with me. Mr. Christopher Straface, the Director of Health & Wellness, can advise you confidentially as can any counselor in the Health & Wellness Center. They can also help you access other resources on campus and in the local community. You can reach Mr. Straface at 716-2362 or cstraface@southplainscollege.edu or go by the Health and Wellness Center. You can schedule an appointment with a counselor by calling 716-2529.
<b>Campus Concealed Carry</b>	Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been 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. For a list of locations, please refer to the SPC policy at:

[http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php)

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

**Academic  
Honesty**

You are expected to uphold the ideas of academic honesty. All work that is graded must be your own. This policy applies to all work attempted in this course. If this policy is violated via:

- Cheating: copying another student's exam/assignments, using unauthorized materials during exams, and/or allowing another individual to submit assignments on the student's behalf.
- Bribery: offering or accepting for an academic advantage.
- Misrepresentation: lying in an attempt to increase a grade or when confronted with allegations of academic dishonesty
- Plagiarism: Representing another person's work as your own without consent to the original owner's work and/or permission from the instructor.

If any of these items are violated, the student will receive an F for the assignment(s) and may be dropped from the class with an F at the instructor's discretion.

**Equal  
Opportunity**

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.

**Recording  
Devices**

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.

**Non-  
Discrimination  
Statement**

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. Phone number 806-716-2360.

## Course Itinerary

<b>Week 1</b>	Aug. 27 <sup>th</sup>	Introductions. Overview of Autodesk products; Phases of Design
	Aug. 29 <sup>th</sup>	Problem Identification to Documentation; Hand drawings
<b>Week 2</b>	Sept. 3 <sup>rd</sup>	Introduction to AutoCAD 2019; Overview of commands and drawing area
	Sept. 5 <sup>th</sup>	
<b>Week 3</b>	Sept. 10 <sup>th</sup>	Creating basic shapes, Lines, Arcs, Rectangles, and Circles. Coordinate systems
	Sept. 12 <sup>th</sup>	Creating standardize templates, layouts, and lettering for drawings
<b>Week 4</b>	Sept. 17 <sup>th</sup>	Drawing 3D objects using 2D visualizations
	Sept. 19 <sup>th</sup>	
<b>Week 5</b>	Sept. 24 <sup>th</sup>	Utilizing editing commands
	Sept. 26 <sup>th</sup>	Dimensioning Drawings
<b>Week 6</b>	Oct. 1 <sup>st</sup>	Creating Tables and Text
	Oct. 3 <sup>rd</sup>	<b>Project #1</b>
<b>Week 7</b>	Oct. 8 <sup>th</sup>	
	Oct. 10 <sup>th</sup>	
<b>Week 8</b>	Oct. 15 <sup>th</sup>	<b>Project #1 Due</b>
	Oct. 17 <sup>th</sup>	Tolerancing Dimensions
<b>Week 9</b>	Oct. 22 <sup>nd</sup>	Creating Auxiliary Views
	Oct. 24 <sup>th</sup>	Creating Section Views
<b>Week 10</b>	Oct. 29 <sup>th</sup>	Creating Hatch Drawings
	Oct. 31 <sup>st</sup>	Drawing Threads, Fasteners, and Springs
<b>Week 11</b>	Nov. 5 <sup>th</sup>	Drawing Gears and Cams
	Nov. 7 <sup>th</sup>	Utilizing 3D Modeling and Creating Assemblies
<b>Week 12</b>	Nov. 12 <sup>th</sup>	
	Nov. 14 <sup>th</sup>	
<b>Week 13</b>	Nov. 19 <sup>th</sup>	<b>Project #2</b>
	Nov. 21 <sup>st</sup>	
<b>Week 14</b>	Nov. 26 <sup>th</sup>	
	Nov. 28 <sup>th</sup>	<b>Holiday - No Class</b>
<b>Week 15</b>	Dec. 3 <sup>rd</sup>	<b>Project #2</b>
	Dec. 5 <sup>th</sup>	
<b>Week 16</b>	<b>Dec. 10<sup>th</sup></b>	<b>Project #2 Due 8:00 AM</b>