

South Plains College
Mathematics, Engineering, & Computer Science Department
Engineering Graphics 1 – ENGR 1304.002
Tuesday & Thursday: 8:00am – 10:40am
Course Syllabus - Fall 2026

Instructor: Jake Wyatt, PE, SE
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Office Hours: (Levelland Campus M110): T & R: 10:45-11:45am & 2:15-3:00pm, F: 9:00-11:00am, and by appointment.
(Lubbock Campus B001): M & W: 8:00 – 9:00am & 12:15 – 1:00pm, and by appointment

Course Description: This course is an introduction to computer-aided drafting using REVIT 2025 software to build three dimensional models and generate two- and three-dimensional drawings based on the conventions of engineering graphical communication.

Credit: 3 Semester Credit Hours

Prerequisites: MATH 1314 (College Algebra)

Textbook: Autodesk Revit 2025 Structure Fundamentals by SDC Publications

Attendance: Attendance and effort are important for success in this course. Class attendance may be taken at any time during the class period, so please do not arrive late or leave early.

Class Format:	8:00 – 8:40	Lecture
	8:40 – 10:40	In-Class Assignment

In-Class Assignments: There are two types of in-class assignments: practice exercises and real project applications. The practice exercises are taken from the textbook and provide hands-on practice of the topic covered during the lecture. The real project applications come from a real engineering project and reinforce the previous lecture and practice exercise. All in-class assignments are to be printed (8.5 x 11-inch paper) and submitted at the beginning of the class meeting following the meeting in which they were assigned. The format for in-class assignment submissions is as follows.

1. Heading at the top left of the first page to include student's name, date, and subject.
2. Two-to-three "screen captures" showing the work the student completed during the in-class assignment.

Final Exam: The final exam will be a set of engineering construction documents that each student has drawn and will present to the class. These construction documents will be the amalgamation of all the "real engineering project" in-class assignments that the student has completed over the course of the semester.

Grading:	Practice Exercises:	30%
	Real Life Applications:	30%
	Final Exam:	40%

Your final average in the course will determine the letter grade posted on your transcript. This grade is determined by the following scale. A(90-100%), B(80-89%), C(70-79%), D(60-69%), F(0-59%).

Supplementary Information: The course syllabus, schedule, and grades can be accessed through Blackboard, the online course management system for this course. Please email questions regarding Blackboard support to blackboard@southplainscollege.edu. For information regarding official South Plains College statements about diversity, disabilities, non-discrimination, Title V Pregnancy & Parenting Accommodations, and Campus Concealed Carry, please visit: <https://www.southplainscollege.edu/syllabusstatements/>.

Engineering Graphics 1 Course Outline

ENGR 1304.002 (TR 8:00 – 10:40am)

Fall 2026

Week	Date	Lecture Topic	Assignment	#
1	Aug 25 – T	Chapter 1: Introduction to Revit	Practice 1a	1
	Aug 27 – R	Chapter 2: Setting Up Levels & Creating Grids	Practice 2b, Practice 2c	2
2	Sep 1 – T	Real Project Application	Set up Levels, Create Grids	3
	Sep 3 – R	Chapters 3 & 5: Working w/ Views & Adding Building Elements	Practice 3a & 3b, Practice 5a	4
3	Sep 7 – M	<i>Labor Day Holiday – No Office Hours</i>		
	Sep 8 – T	Chapter 5: Working w/ Modify Tools	Practice 5b, Practice 5c	5
	Sep 10 – R	Chapter 6: Adding Columns	Practice 6a, Practice 6b	6
4	Sep 15 – T	Real Project Application	Model Columns	7
	Sep 17 – R	Chapter 7: Walls & Footings	Practice 7a & Practice 7b	8
5	Sep 22 – T	Real Project Application	Model Footings	9
	Sep 24 – R	Chapter 8: Structural Framing	Practice 8a	10
6	Sep 29 – T	Real Project Application	Model 2 nd Floor Framing	11
	Oct 1 – R	Chapter 8: Modifying Structural Framing	Practice 8b	12
7	Oct 6 – T	Chapter 8: Trusses	Practice 8c	13
	Oct 8 – R	Real Project Application	Model Roof Framing Day 1	14
8	Oct 13 – T	Real Project Application	Model Roof Framing Day 2	15
	Oct 15 – R	Guest Project Presentation by Practicing Architect!		
	Oct 16 - F	<i>SPC Fall Break – No Office Hours</i>		
9	Oct 20 – T	Chapter 9: Slabs & Shaft Openings	Practice 9a, Practice 9b	16
	Oct 22 – R	Real Project Application	Model Slab & Opening	17
10	Oct 27 – T	Chapter 10: Structural Reinforcement	Practice 10a, Practice 10b	18
	Oct 29 – R	Real Project Application	Model Foundation Reinforcement	19
11	Nov 3 – T	Chapter 12: Working w/ Annotations	Practice 12a, Practice 12b	20
	Nov 5 – R	Real Project Application	Dimension Plan Views	21
	Nov 6 - F	<i>Registration Opens for Spring</i>		
12	Nov 10 – T	Chapter 13: Adding Tags & Schedules	Practice 13a-13c	22
	Nov 12 – R	Real Project Application	Tagging & Footing Schedule	23
13	Nov 17 – T	Chapters 3.5 & 14: Sections, Elevations, & Detail Views	Practice 3c, Practice 14a-14c	24
	Nov 19 – R	Real Project Application	Add Details & Elevations	25
14	Nov 24 – T	Chapter 11: Creating Construction Documents & Printing	Practice 11a	26
	Nov 25 – W	<i>Thanksgiving Holiday – No Office Hours</i>		
	Nov 26 – R	<i>Thanksgiving Holiday – No Class</i>		
	Nov 27 – F	<i>Thanksgiving Holiday – No Office Hours</i>		
15	Dec 1 – T	Real Project Application	Prepare Construction Documents	
	Dec 3 – R	Real Project Application	Prepare Construction Documents	
16	Dec 8 – T 8:00–10:00am	Final Exam	Present Construction Documents	

Note: The instructor reserves the right to modify the course syllabus and schedule, as well as notify students of any changes, at any point during the semester.