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## COURSE SYLLABUS

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

**Instructor:** Nathaniel Feddes, MCRP  
**Office:** Technical Arts Center, 205A  
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**Email:** nfeddes@southplainscollege.edu  
**Office Hrs:** T/Th: 9a-11a  
F: 8a-12p (by appt)

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### COURSE INFORMATION

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<b>COURSE NUMBER</b>	ARCE 2352
<b>COURSE TITLE</b>	Mechanical, Electrical and Plumbing (MEP) Systems
<b>PREREQUISITE(S)</b>	DFTG 1317 or consent of instructor
<b>LOCATION</b>	TA 207B
<b>TEXTBOOK</b>	<i>Design of Mechanical &amp; Electrical Systems</i> . Trost, Pearson Publishing, ISBN 978-0-13097235-4
<b>DESCRIPTION</b>	This course instructs students in the preparation of drawings for mechanical, electrical and plumbing, (MEP) systems with emphasis on applicable building energy codes, product references, and specifications for construction.
<b>SCOPE</b>	The scope of <u>Mechanical, Electrical and Plumbing (MEP) Systems</u> will be for sixteen (16) 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.
<b>PURPOSE</b>	This course provides students with a basic knowledge of the interaction of MEP systems in building construction and of how MEP relates to BIM software.
<b>COURSE OUTCOMES</b>	Review and apply building and energy codes, select MEP components, and incorporate specifications to produce MEP drawings including comprehension of related calculations and coordination with building systems.
<b>COURSE TOPICS</b>	<ol style="list-style-type: none"><li>1) Introduction to MEP Systems</li><li>2) Intro to BIM and Revit</li><li>3) Lighting &amp; Electrical Systems and Plans</li><li>4) HVAC Systems and Plans</li><li>5) Water &amp; Plumbing Systems and Plans</li><li>6) MEP Calculations</li><li>7) Advanced MEP Systems and Networks</li><li>8) MEP Construction Documents</li></ol>

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## GRADING

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<b>WEIGHTS</b>	Daily Assignments	<b>20%</b>	<b>SCALE</b>	<b>A</b>	90 – 100%
	Review Questions	<b>20%</b>		<b>B</b>	80 – 89%
	Projects	<b>30%</b>		<b>C</b>	70 – 79%
	Exams	<b>20%</b>		<b>D</b>	60 – 69%
	Attendance	<b>10%</b>		<b>F</b>	59% or Below

**DAILY ASSIGNMENTS** Practical drawing assignments and/or practical drawing tests will be completed during laboratory time. Practical drawing assignments will be graded on the following:

1. Neatness
2. Line and text Criteria
3. Dimensioning Criteria
4. Systems designed to appropriate specifications and references
5. Choice & Location of Views
6. Correctness & Accuracy of Views
7. Nomenclature
8. Printing and Plotting

**REVIEW QUESTIONS** Students will be assigned review questions for each chapter covered in the textbook, as well as for other topics covered in lecture.

**PROJECTS** Projects will be periodically assigned to demonstrate a practical proficiency in the various drawing elements in architectural drafting.

**EXAMS** Exams will be comprised of practical skills and objective material.

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## CLASSROOM POLICIES

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**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** **Three absences**, for any reason are allowed per semester. Tardies, defined as not being present in class within 5 minutes of the start of class, will count as ½ absence. Your grad will drop one letter grade per each absence over the allowable limit. Six absences will be grounds for the instructor to drop the student from the course.

If a student has not participated in a course(s) in any form for a minimum of 3 weeks, without any communication from the student and is earning a solid “F”, an administrative withdrawal will be considered. The student will be contacted and encouraged to initiate a student withdrawal. After an additional week, faculty will initiate an administrative withdrawal.

**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.

**COVID-19 POLICIES** When entering a classroom/lab, students must self-screen in accordance with COVID-19 posters. If a student is experiencing any symptoms listed, they must leave the campus.

Students will clean/disinfect desk with wipes AFTER each use.

## **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. All drinks must be stored away from computer 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 lab time as long as it is played through headphones.

Cellphones are permitted during lab time when used directly for research or class initiatives. If your cell phone rings, 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*.

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## **ACCOMMODATIONS**

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### **Face Covering Statement**

It is the policy of South Plains College for the Spring 2021 semester that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the SPC community. Such behaviors specifically include the requirement that all students properly wear CDC-compliant face coverings while in SPC buildings including in classrooms, labs, hallways, and restrooms. Failure to comply with this policy may result in dismissal from the current class session. If the student refuses to leave the classroom or lab after being dismissed, the student may be referred to the Dean of Students on the Levelland campus or the Dean/Director of external centers for Student Code of Conduct Violation. Students who believe they have been exposed or may be COVID-19 positive, must contact Health Services, DeEtte Edens, BSN, RN at (806) 716-2376 or [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu).

### **Diversity Statement**

In this class, the teacher 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 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.

### **Disabilities Statement**

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 Office) 806-716-2577, Reese Center (Building 8) & Lubbock Center 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

### **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.

### **Title IX Pregnancy Accommodations Statement**

If you are pregnant, or have given birth been within six months, under Title IX you have a right to reasonable accommodations to help continue your education. Students who wish to request accommodations must contact the Health and Wellness Center at [806-716-2529](tel:806-716-2529) to initiate the process.

## **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.