

PTRT 2459
Petroleum Computer Applications

Western Texas College

- I. Basic Course Information
 - A. Computer applications used in the petroleum industry. Includes the automation of open and closed loop systems.
 - B. Any required prerequisites: None
- II. Student Learning Outcomes
 - A. Describe the different computer systems used to monitor and control petroleum processes; and troubleshoot components and operating systems of modern process control.
- III. Major Course Requirements
 - A. Lab Attendance
 - B. Final Exam
- IV. Information on Books and Other Course Materials
 - A. Book: None
- V. Other Policies, Procedures and Important Dates are available in the [Catalog](#).
- VI. Course Organization and Schedule

Disclaimer: Schedule and content is subject to change at the instructor's discretion.

WEEK 1:	Microsoft PowerPoint
WEEK 2:	Microsoft Excel
WEEK 3:	Microsoft Word
WEEK 4:	Autodesk Plant 2014 Unit 1 Part 1: The History of Pipe and Piping Components
WEEK 5:	Autodesk Plant 2014 Unit 1 Part 2: Instrumentation and Piping Specifications
WEEK 6:	Autodesk Plant 2014 Unit 2 Part 1: Pumps and Compressors and Heat Exchangers
WEEK 7:	Autodesk Plant 2014 Unit 2 Part 2: Vessels and Tanks
WEEK 8:	Autodesk Plant 2014 Unit 3 Part 1: Process Engineering Workflow
WEEK 9:	Autodesk Plant 2014 Unit 3 Part 2: P&IDs
WEEK 10:	Autodesk Plant 2014 Unit 4 Part 1: Basic Plant Arrangement
WEEK 11:	Autodesk Plant 2014 Unit 4 Part 2: 3D Piping Layout
WEEK 12:	Autodesk Plant 2014 Unit 5 Part 1: Orthographic Drawing Symbology

WEEK 13:	Autodesk Plant 2014 Unit 5 Part 2: Orthographic Drawing Views
WEEK 14:	Autodesk Plant 2014 Unit 6 Part 1: Isometric and Spool Drawings
WEEK 15:	Autodesk Plant 2014 Unit 6 Part 2: Reports
WEEK 16:	Finals

Grading

Class/Lab	60%
Assignments	
Tests	20%
Final Exam	20%

Last Modified: August 19, 2015