

BLUF: Follow the checklist below.

- (1) familiarize yourself web site materials,
  - (2) read the Standing Instructions for Students (SIS),
  - (3) prepare for CHEMCAD inspection,
  - (4) prepare for textbook inspection,
  - (5) prepare for Adobe Acrobat Pro inspection,
  - (6) read the Lesson 1 review material,
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Hello, welcome back to West Point, and welcome to CH402.

I am very excited to be working with you again, and I hope you will find chemical engineering process design to be as interesting as I do. Just like last semester, the course has a CANVAS site and CANVAS has repositories for your electronic submissions. To get things off to a smooth start, some logistical items must be ironed out before class. Each is described below. Please read this email carefully and follow the instructions and due dates closely.

**1. WEB SITE:**

<https://westpoint.instructure.com/>

Please verify that this link work, bookmark it, and write it down in your notebook so that you have it during class.

**2. STANDING INSTRUCTIONS FOR STUDENTS (SIS)**

Suspense: Wednesday 7 JAN 2025 start of class. Read the SIS carefully. I will be closely following the policies described there.

**3. CHEMCAD INSPECTION**

Suspense: Wednesday 7 JAN 2026 start of class.

We will be making heavy use of CHEMCAD this semester. Please make sure CHEMCAD is installed and licensed and licensed on your personal laptop computer. Licensing is obtained from a network license server, as described below.

Network License Server: The network license server is located on USMAWKDMCHEMNG2. The procedure for accessing the network license server is as follows: Open CHEMCAD. In the main menu, click File -> Licensing. Then click Setup and then Add/remove servers. Under "Select server type," choose SuperProNet, then enter the name of the server given above. After a few seconds, CHEMCAD should detect the license server and you should have full access to the software. A link to this procedure with screenshots can be found in Canvas Home in Resources (Software item #2).

If you cannot access the server, open a CMD window, type "ping usmawkmchemng" at the prompt, and email a screenshot of the results to me.

If you need to re-install CHEMCAD, the installation file is in Canvas Home in the *Resources* Quick Access link (Software item #1). Download the software at the link next to "CHEMCAD Software" and run it.

The inspection on lesson 1 is to verify that you have a working version of CHEMCAD on your Dell laptop. In class. For this inspection, please also open CHEMCAD on your assigned lab PC and have that ready for inspection as well.

You will also need to update the Chemical Engineering Plant Cost Index in CHEMCAD. The database file is in Canvas Home in the Resources Quick Access link (Software item #4). Download this file and copy and paste it (do not drag and drop) to C:\Program Files (x86)\Chemstations\CHEMCAD NXT. This will replace the existing file with cost indices up to December 2025. I will be updating this file about once a month throughout the semester.

#### **4. TEXTBOOK INSPECTION**

Suspense: Wednesday 7 JAN 2026 start of class.

The textbook is required for this course, and I recommend that you bring it to class each day. We will be using "Plant Design and Economics for Chemical Engineers, 5<sup>th</sup> edition, by Peters, Timmerhaus, and West. You should already have a copy from last semester since it was required in CH459. You may use print or electronic versions. If you rent the book, please make sure you have access to it through TEE week.

#### **5. ADOBE ACROBAT PRO**

Suspense: Wednesday 7 JAN 2026 start of class.

We will be making heavy use of Adobe Acrobat Pro this semester. The license may be expiring on your system. If that is the case, go to the Company Portal and download and install the "Adobe Acrobat Pro License Updater" and re-start your computer. Please have Adobe Acrobat Pro open on your computer at the start of class on Lesson 1.

#### **6. ADDITIONAL LESSON 1 REVIEW MATERIAL**

Suspense: Wednesday 7 JAN 2026 start of class.

The textbook by Peters and Timmerhaus is a design textbook, which means that results are usually presented without derivation. Lesson 1 makes heavy use of the mechanical energy balance discussed in CH365. Reviewing lesson 7 on the CH365 web site and pages 49-50 in the thermodynamics textbook on pages 49-50 will also help you prepare. The mechanical energy balance equation also appears the FE Reference Manual. Reviewing this page will help you prepare for CH402 and CH400.

I have also prepared some review material on course admin and program student outcomes. This information is included in the attachment. Please read this material before the start of class.

Please let me know if there are any questions.

See you in class!

Dr. Andrew Biaglow

Professor of Chemical Engineering

Course Director, CH402