

Prep:

Review videos (Approx 2 hours of video instruction not including practice time) from powerpoint links

Materials:

Computers with AutoCAD

- Videos refer to the textbook *Up and Running with AutoCAD* by Elliot Gindis and Robert Kaebisch, but the text is not required

Activity:

Instructional videos - pause the video periodically to practice the content that was covered. Use the **COMMON HOTKEYS.pdf** as a cheat sheet for becoming familiar with the common commands.

1. AutoCAD Overview 10:07

Learning Outcomes:

- Open AutoCAD
- User Interface

https://mediaspace.minnstate.edu/media/CTE+AutoCAD+Overview/1_rjxnkrdl

2. Working in AutoCAD 4:20

Learning Outcomes:

- Use the Command Line
- Use the Ribbon

https://mediaspace.minnstate.edu/media/CTE+Working+in+AutoCAD/1_hyj4iuur

3. Working with create object commands 6:45

Learning Outcomes:

- Line
- Circle
- Arc
- Rectangle

https://mediaspace.minnstate.edu/media/CTE+Working+with+create+object+commands/1_ohy6sdjv

4. Navigating in AutoCAD 8:22

Learning Outcomes:

- Zoom
- Pan
- Regen
- Additional tips

https://mediaspace.minnstate.edu/media/CTE+Navigating+in+AutoCAD/1_6ce5p66y

5. Working with the Edit/Modify objects commands Part 1 5:36

Learning Outcomes:

- Erase
- Move
- Copy

https://mediaspace.minnstate.edu/media/CTE+Part+1+Working+with+the+Edit+Modify+objects+commands/1_q2qp9hfi

6. Working with the Edit/Modify objects commands Part 2 3:22

Learning Outcomes:

- Rotate
- Scale

https://mediaspace.minnstate.edu/media/CTE+Part+2+Working+with+the+Edit+Modify+objects+commands/1_5q7odbbo

7. Working with the Edit/Modify objects commands Part 3 6:27

Learning Outcomes:

- Trim
- Extend

https://mediaspace.minnstate.edu/media/CTE+Part+3+Working+with+the+Edit+Modify+objects+commands/1_ji2geb80

8. Working with the Edit/Modify objects command Part 4 7:25

Learning Outcomes:

- Offset
- Mirror
- Fillet

https://mediaspace.minnstate.edu/media/CTE+Part+4+Working+with+the+Edit+Modify+objects+command/1_g0bh7xeq

9. Selection Methods 5:14

Learning Outcomes:

- Crossing
- Window
- Lasso

https://mediaspace.minnstate.edu/media/CTE+Selection+Methods/1_9zb2ew3n

10. Drawing Accuracy 8:33

Learning Outcomes:

- Ortho
- Osnaps
- Osnaps settings

https://mediaspace.minnstate.edu/media/CTE+Drawing+Accuracy/1_0v5hww8p

11. Grips 3:19

Learning Outcomes:

- Basic grip function

https://mediaspace.minnstate.edu/media/CTE+Grips/1_hogj550y

12. Units and scale 7:20

Learning Outcomes:

- Set up units
- Understand architectural measurements

https://mediaspace.minnstate.edu/media/CTE+Units+and+scale/1_plp6g5cl

13. Snap and Grid 3:54

Learning Outcomes:

- Adjust basic snap settings
- Adjust grid settings

https://mediaspace.minnstate.edu/media/CTE+Snap+and+Grid/1_rjdnmexw

14. Inquiry commands 6:32

Learning Outcomes:

- Use measure tools

https://mediaspace.minnstate.edu/media/CTE+Inquiry+commands/1_zi4img52

15. Additional drafting commands Part 1 9:05

Learning Outcomes:

- Explode
- Polygon
- Chamfer

- Ellipse

https://mediaspace.minnstate.edu/media/CTE+Part+1+Additional+drafting+commands/1_mcjh2lb5

16. Additional drafting commands Part 2 4:42

Learning Outcomes:

- Set up templates
- Save
- Access help files
- Apply tangent osnaps
- Apply osnap override

https://mediaspace.minnstate.edu/media/CTE+Part+2+Additional+drafting+commands/1_nd6oqwu1

17. Single line text 7:18

Learning Outcomes:

- Single line text

https://mediaspace.minnstate.edu/media/CTE+Single+line+text/1_1ig3963v

18. Mtext 6:08

Learning Outcomes:

- Create and edit multiline text

https://mediaspace.minnstate.edu/media/CTE+Mtext/1_1ywrplyb

19. Object Snap Tracking 6:01

Learning Outcomes:

- Use Object Snap Tracking

https://mediaspace.minnstate.edu/media/CTE+Object+Snap+Tracking/1_o5r3yhml

20. Stretch 5:43

Learning Outcomes:

- Use stretch

https://mediaspace.minnstate.edu/media/CTE+Stretch/1_pgblvz7i