**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_q2qp9hfj>

**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>