**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](https://mediaspace.minnstate.edu/media/CTE%2BAutoCAD%2BOverview/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](https://mediaspace.minnstate.edu/media/CTE%2BWorking%2Bin%2BAutoCAD/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](https://mediaspace.minnstate.edu/media/CTE%2BWorking%2Bwith%2Bcreate%2Bobject%2Bcommands/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](https://mediaspace.minnstate.edu/media/CTE%2BNavigating%2Bin%2BAutoCAD/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](https://mediaspace.minnstate.edu/media/CTE%2BPart%2B1%2BWorking%2Bwith%2Bthe%2BEdit%2BModify%2Bobjects%2Bcommands/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](https://mediaspace.minnstate.edu/media/CTE%2BPart%2B2%2BWorking%2Bwith%2Bthe%2BEdit%2BModify%2Bobjects%2Bcommands/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](https://mediaspace.minnstate.edu/media/CTE%2BPart%2B3%2BWorking%2Bwith%2Bthe%2BEdit%2BModify%2Bobjects%2Bcommands/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](https://mediaspace.minnstate.edu/media/CTE%2BPart%2B4%2BWorking%2Bwith%2Bthe%2BEdit%2BModify%2Bobjects%2Bcommand/1_g0bh7xeq)

**9. Selection Methods 5:14**

Learning Outcomes:

* Crossing
* Window
* Lasso

[https://mediaspace.minnstate.edu/media/CTE+Selection+Methods/1\_9zb2ew3n](https://mediaspace.minnstate.edu/media/CTE%2BSelection%2BMethods/1_9zb2ew3n)

**10. Drawing Accuracy 8:33**

Learning Outcomes:

* Ortho
* Osnaps
* Osnaps settings

[https://mediaspace.minnstate.edu/media/CTE+Drawing+Accuracy/1\_0v5hww8p](https://mediaspace.minnstate.edu/media/CTE%2BDrawing%2BAccuracy/1_0v5hww8p)

**11. Grips 3:19**

Learning Outcomes:

* Basic grip function

[https://mediaspace.minnstate.edu/media/CTE+Grips/1\_hogj550y](https://mediaspace.minnstate.edu/media/CTE%2BGrips/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](https://mediaspace.minnstate.edu/media/CTE%2BUnits%2Band%2Bscale/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](https://mediaspace.minnstate.edu/media/CTE%2BSnap%2Band%2BGrid/1_rjdnmexw)

**14. Inquiry commands 6:32**

Learning Outcomes:

* Use measure tools

[https://mediaspace.minnstate.edu/media/CTE+Inquiry+commands/1\_zi4img52](https://mediaspace.minnstate.edu/media/CTE%2BInquiry%2Bcommands/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](https://mediaspace.minnstate.edu/media/CTE%2BPart%2B1%2BAdditional%2Bdrafting%2Bcommands/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](https://mediaspace.minnstate.edu/media/CTE%2BPart%2B2%2BAdditional%2Bdrafting%2Bcommands/1_nd6oqwu1)

**17. Single line text 7:18**

Learning Outcomes:

* Single line text

[https://mediaspace.minnstate.edu/media/CTE+Single+line+text/1\_1ig3963v](https://mediaspace.minnstate.edu/media/CTE%2BSingle%2Bline%2Btext/1_1ig3963v)

**18. Mtext 6:08**

Learning Outcomes:

* Create and edit multiline text

[https://mediaspace.minnstate.edu/media/CTE+Mtext/1\_1ywrplyb](https://mediaspace.minnstate.edu/media/CTE%2BMtext/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](https://mediaspace.minnstate.edu/media/CTE%2BObject%2BSnap%2BTracking/1_o5r3yhml)

**20. Stretch 5:43**

Learning Outcomes:

* Use stretch

[https://mediaspace.minnstate.edu/media/CTE+Stretch/1\_pgblvz7i](https://mediaspace.minnstate.edu/media/CTE%2BStretch/1_pgblvz7i)