

**Curriculum Map**

**Headley**

| MONTH                                    | ESSENTIAL QUESTION   | CONTENT (CHAPTER/UNIT DESCRIPTION/ ACTIVITIES)  | SKILLS (STANDARDS/LEARNING OUTCOMES)  | MATERIALS/ RESOURCES   | ASSESSMENT (OBJECTIVE/SUBJECTIVE)  |
|--|--|---|---|--|--|
| Month 1<br>Sept 6 to Oct 9<br>(22 days)  | How do you get started in AutoCAD and make a basic 2D drawing? | AutoCAD Drawing Fundamentals I: <ul style="list-style-type: none"> <li>▪ AutoCAD Environment</li> <li>▪ Coordinate System</li> <li>▪ Drawing Commands</li> </ul>                                    | Students will learn: <ul style="list-style-type: none"> <li>▪ Drawing Set up and File Mgmt</li> <li>▪ Rectangle, Relative Rectangle and Relative Polar Coordinate Inputs</li> <li>▪ Line, Circle, Arc and Rectangle Drawing Commands</li> <li>▪ Cartesian Coordinates System</li> <li>▪ Orthographic Drawing Conventions</li> </ul> | Students complete the 23 Drawing Exercises provided in Chapter 2 of <u>Harnessing AutoCAD LT 97</u>  | <ul style="list-style-type: none"> <li>▪ All drawings submitted by the students are evaluated</li> <li>▪ Quiz #1: Heads up on students' skill levels after 1<sup>st</sup> two weeks</li> <li>▪ Quiz #2: Comprehensive quiz on drawing and AutoCAD skills after 4 weeks.</li> </ul> |
| Month 2<br>Oct 10 to Nov 9<br>(22 days)  | Aren't there easier ways to make a 2D drawing?                 | AutoCAD Drawing Fundamentals II <ul style="list-style-type: none"> <li>▪ Accuracy Enhancements</li> <li>▪ More Drawing Commands</li> <li>▪ Dimensions</li> </ul>                                    | Students will learn: <ul style="list-style-type: none"> <li>▪ Grid, Snap Ortho &amp; Osnap features</li> <li>▪ Multiple ways to use Drawing commands</li> <li>▪ Linear and Radius Dimensions</li> </ul>   | Students will complete the 8 drawing exercises provided in Chapter 2 of <u>Harnessing AutoCAD LT 97</u>  | <ul style="list-style-type: none"> <li>▪ All drawings submitted by the students are evaluated</li> <li>▪ Midterm Exam will evaluate cumulative progress.</li> </ul>  |
| Month 3<br>Nov 13 to Dec 21<br>(27 days) | What tools are available to make more complicated 2D drawings? | AutoCAD Drawing Fundamentals III & IV <ul style="list-style-type: none"> <li>▪ More Drawing Commands</li> <li>▪ Modifying Objects Commands</li> <li>▪ Advanced Text and Dimension Styles</li> </ul> | Students will learn: <ul style="list-style-type: none"> <li>▪ Construction Lines, construct geometric figures and more text features</li> <li>▪ Multiple ways to use Modify commands</li> <li>▪ Aligned and angular Dimensions</li> </ul>   | Students will complete the 8 drawing exercises provided in Chapter 4 and 5 of <u>Harnessing AutoCAD LT 97</u>  | <ul style="list-style-type: none"> <li>▪ All drawings submitted by the students are evaluated</li> <li>▪ Quiz # 3 comprehensive quiz on drawing skills after 15 weeks</li> </ul>   |
| Month 4<br>Jan2 to Jan 25<br>(16 days)   | How do you make a 3D drawing?                                  | AutoCAD 3D <ul style="list-style-type: none"> <li>▪ Render Isometric drawings</li> </ul> Sketchup <ul style="list-style-type: none"> <li>▪ Intro to 3D Modeling</li> </ul>                          | Students will learn: <ul style="list-style-type: none"> <li>▪ Create 3D objects using isometric drawing tools</li> <li>▪ Dimension and text features for isometric drawings</li> <li>▪ Modeling features of Sketchup</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Students will complete the 6 drawing exercises provided in Chapter 15 of <u>Harnessing AutoCAD LT 97</u></li> <li>▪ Students will design a house in Sketchup</li> </ul> | <ul style="list-style-type: none"> <li>▪ All drawings submitted by the students are evaluated</li> <li>▪ Quiz #4: Comprehensive quiz on AutoCAD Isometric drawing skills</li> <li>▪ Final Exam will evaluate cumulative drawing skills for the semester</li> </ul>                 |