

ENGINEERING GRAPHICS I
College Credit and Careers Network
Dual Credit Articulation Agreement

Upon completion of high school courses equivalent to the following competencies:

- the purpose and use of drafting tools and equipment
- many of the terms that are peculiar to drafting and engineering
- how to visualize and/or create orthographic, isometric and auxiliary views
- geometric construction procedures involving straight lines, angles, arcs and circles
- the use of auxiliary views
- the use and creation of section views
- the basic rules for dimensioning

To achieve these goals, students will need to develop the following skills:

- use architects', and metric scales distances engineers' to measure
- use a protractor to measure angles
- use a compass to make arcs and circles
- use dividers to transfer distances from one location to another
- use an irregular curve to make curves that do not have a constant radius
- know the meaning of orthographic, isometric, auxiliary view, arc center, point of tangency, object line, center line, construction line, hidden line, phantom line, extension line, dimension line, projection line, fold line and cutting plane line
- know the proper use of each of the above
- know the proper arrangement of views on the page
- know geometric construction procedures involving lines, arcs, circles, "centers" of tangencies

A student earning a "B" or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Lake Washington Technical College	ENGR 111	4
Shoreline Community College	ENGR 101	5