



# CAM 1107: Introduction to Mechanical Drafting with AutoCAD

## Credit Type – Proficiency

<b>Course Description and Learning Outcomes:</b>
<a href="https://www.sinclair.edu/course/params/subject/CAM/courseNo/1107/">https://www.sinclair.edu/course/params/subject/CAM/courseNo/1107/</a>
<b>Faculty Pathway Specialist(s)</b> (Please include name, email and office hours):
<b>Primary:</b> David Griffith, <a href="mailto:david.griffith6042@sinclair.edu">david.griffith6042@sinclair.edu</a> <i>Please note: Keith will no longer be with Tech Prep beginning AY 23-24.</i>
<b>Resources Needed to Offer Course</b> (software, equipment, books [include ISBN and edition], etc. – please include any associated costs):
Textbooks are not required as all texts are provided in the course shell. This course requires a computer lab with the latest AutoCAD software - free student versions for are available from Autodesk. Students will need to be able to draw and sketch with pencil and paper also.
<b>What is the ideal format for course delivery – in person, online or blended? To what extent could this course be offered online if necessary?</b>
Course can be taught partially online but also requires face-to-face meetings (blended). Further explanation: the student maturity really affects the decision as to whether or not this course is successful on-line with no F2F. The right teacher could make a full on line work. There are a lot of instructional videos that walk the student through a step-by-step process to create the drawings. A few F2F Labs help but may also be done via virtual classroom and/or zoom. <b>New for AY 21-22 – Content has been added to include geometric constructions and auxiliary views. Some of the cad drawing assignments from previous years have been removed to allow for the added content.</b>
<b>How is the final grade for the course determined?</b> (Please list all required assignments, assessments, etc.)
Course assessed through quizzes, tests, and student drawings (sketches and final CAD drawing).
<b>Who is responsible for grading the required assignments and/or assessments?</b> (faculty or instructor?)
The high school instructor is responsible for scoring/grading these assessment and putting grades in eLearn unless another arrangements and approval has been granted through the Faculty Pathway Specialist.
<b>What is the grading scale for the course?</b>
<b>Standard Sinclair grading scale used for course.</b> 90-100 = A 89 – 80 = B 79 – 70 = C 69 – 60 = D 59 – 0 = F
<b>Must students access the eLearn shell regularly to complete requirements?</b>

Course requires that students complete work in eLearn (unless other arrangements have been made and permission has been granted), including tests and drawings. Grades not automatically recorded must be manually entered by instructor.

**Does the course require access to YouTube, GoogleDrive, etc.?**

All videos are available through the eLearn course shell, but there are also YouTube videos which the students may want to access.

**Additional course details or requirements important for instructors not covered above:**

This course is probably best delivered face-to-face or as a blended format allowing them the ability to work online while also being led by their instructor through the online lessons and required drawings if possible. There are a lot of options for this course and each instructor may make a request to vary away from some of curriculum, but it should be noted that it is important for the student to get as much of the Sinclair content as possible in order to continue on in any of the programs that contain this basic and fundamental course.

**NOTE: Prior approval of the Faculty Pathway Specialist is required before offering credit for this course unless the course is offered as written and in its entirety. If there is to be any variance away from the curriculum, you must get approval first before offering this course.**

**Most common (or popular) degrees this course is in?**

Computer Aided Manufacturing Precision Machining AAS

Computer Aided Manufacturing CNC Technology AAS

This course is used in a majority of the short and one-year certificates offered by the CAM and IET departments.