

MET 131 MET Computer Aided Drafting 1  
Course Syllabus

Instructor: Mike DeVore, PhD, PE

Text: An Introduction to Autodesk Inventor 2014 and AutoCAD 2014, Randy Shih, SDC Publications

A course covering all phases of engineering drawings; sketching, two-dimensional CAD drawings, and three-dimensional CAD solid models.

Grading Process: There will be daily drawing assignments (60% of your grade), four tests (30% of your grade) and attendance and class participation (10% of your grade).

Note: (Late Assignments) **each person is allowed 2 late assignments during the term, but they will be penalized by 10% per day. After 2 late assignments, any additional late assignments will receive a zero. No test make-ups without prior arrangement before the absence.**

Grade Scale: A: 90-100, B: 80-89, C: 70-79, D: 60-69 F: Below 60

| Week | Topic   |
|------|---|
| 1    | Basics of pencil sketching                                      |
| 2    | Sketching: Orthographic projection & dimensioning               |
| 3    | AutoCAD: Intro. to CAD. Two-dimensional drawings, dimensions    |
| 4    | AutoCAD: Construction techniques, Exam #1                       |
| 5    | AutoCAD: Orthographic drawings, dimensioning, layers, linetypes |
| 6    | AutoCAD: Multi-view drawings, tolerances, holes, Exam #2        |
| 7    | Inventor: Intro. to solid modelling, basic models               |
| 8    | Inventor: Creating & dimensioning drawings                      |
| 9    | Inventor: Hole types, adding & subtracting mat'l, fillets       |
| 10   | Inventor: Advanced modelling                                    |
| 11   | Inventor: Exam #3, Revolve, mirror, section views               |
| 12   | Inventor: Creating Assembly models                              |
| 13   | Inventor: Creating assemblies with balloons & parts lists       |
| 14   | Inventor: Assembly models                                       |
| 15   | Inventor: Assemblies, Exam #4                                   |

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