

# DIGITAL DESIGN AND FABRICATION (DFAB)

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**DFAB 170 | CAD I - Sketchup | 1 cr**

Introduces fundamentals of 2D and 3D computer aided drafting [CAD] using Sketchup including layer control, vector precision and manipulation, object grouping, dimensioning, and 3D printing. Lab fee.

**Prerequisites:** None.

**Offered:** Fall, Spring, Summer, Winterim.

**DFAB 171 | CAD I - AutoCAD | 1 cr**

Introduces fundamentals of 2D and 3D computer aided drafting [CAD] using Autodesk, AutoCAD including layer control, vector precision and manipulation, object grouping, dimensioning, and 3D printing. Lab fee.

**Prerequisites:** None.

**Offered:** Fall, Spring, Summer, Winterim.

**DFAB 172 | CAD I - Vectorworks | 1 cr**

Introduces fundamentals of 2D and 3D computer aided drafting [CAD] using Nemetschek Vectorworks including layer control, vector precision and manipulation, object grouping, dimensioning, and 3D printing. Lab fee.

**Prerequisites:** None.

**Offered:** Fall, Spring, Summer, Winterim.

**DFAB 270 | Digital Fabrication I | 3 cr**

Explores CAD function and practice for 2D and 3D digital fabrication for manufacturing, design, and production using industry standard software and practices to create introductory 2D Vinyl Cut, CNC routed, and advanced 3D Printed works. Requires lab fee.

**Prerequisites:** ART 104; DFAB 170, DFAB 171, DFAB 172; THEA 363, THEA 463 or PENG 216; or instructor consent.

**Offered:** Spring.