

UMass Dartmouth - CVPA

Digital Fabrication

Course: ATR 300-01 & ART 510-02 (3 credits each)

Meets: Fri 9am-2:50pm Star Store 1st Floor Computer Lab

Instructor: Ellen Mueller

Contact: emueller1@umassd.edu

Office Hours: 1:45-3:45pm Tue/Thu at Star Store 345, or by appointment

This course studies the application of design theories/principles to product design. Students utilize CAD software (Rhinoceros), conduct in-depth research of production design and problem solving associated with designing objects. Production processes explored include 3D printers, laser cutters/engravers, and CNC router. Students learn to observe and understand how objects are made, assembled, and analyze common issues in designing them.

COURSE OBJECTIVES:

- To practice computer assisted design (CAD)
- To execute in-depth research and problem solving related to production design
- To observe and understand how the components of each product are put together, and why
- To apply knowledge gained from research to 3D CAD modeling, rapid-prototyping (3D printers, laser cutters/engravers, CNC router)
- To practice prototyping and revision in order to arrive at the final product.

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