

**UMass Dartmouth - CVPA**

**Digital Fabrication: Food & The Absurd (Rhino, 3D printing, Laser, CNC)**

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

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

Instructor: Ellen Mueller

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

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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. We will do all of this through the lenses of food and the absurd.

## **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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