



# Technology, Art and Design, B.S. *major*

## Prototype Engineering & Model Making Emphasis

Required Credits: 78  
Required GPA: 2.00

### Required TAD Core Courses

Complete the following courses:

- TADD 1100 Orientation to Technology, Art, and Design (2 credits)
- TADD 1200 Two-Dimensional Visual Foundations (2 credits)
- TADD 1300 Three-Dimensional Visual Foundations (2 credits)
- TADD 1400 The Art of Napkin Sketching (2 credits)
- TADD 1500 Tech Toolbox I: Illustrator (2 credits)
- TADD 1550 Tech Toolbox I: Photoshop (2 credits)
- TADD 1600 Fundamentals of Digital Photography (2 credits)
- TADD 1700 Presentation Planning, Design, and Delivery (3 credits)
- TADD 1800 Creativity in Action (2 credits)
- TADD 3090 Leadership in Creative Industries (2 credits)
- TADD 3360 History of Contemporary Art & Design: Present-1950 (3 credits)
- TADD 3551 Tech Toolbox I: 3ds Max (2 credits)

### Culmination Core

Complete the following courses:

- TADD 3899 Junior Culmination: Internship Planning (2 credits)
- TADD 4899 Senior Culmination: Career Planning (2 credits)

Complete the following course for 2 credits:

- TADD 4867 Advanced Studio Practice (2 credits)

### 3D Core

Complete the following courses:

- TADD 3200 Introduction to Model Making (2 credits)
- TADD 3380 Designing for Experiences (2 credits)
- TADD 3552 Tech Toolbox II: 3ds Max (2 credits)

### TAD Lab Core

Complete 14 credits from the following courses:

- TADD 2670 Painting (4 credits)
- TADD 3557 TAD LAB: Molding & Casting (2 credits)
- TADD 3558 TAD LAB: Machining (2 credits)
- TADD 3559 TAD LAB: Traditional Woods (2 credits)
- TADD 3660 TAD LAB: Welding (2 credits)
- TADD 3667 TAD LAB: Finishing & Aesthetics (2 credits)
- TADD 3668 TAD LAB: Laser (2 credits)
- TADD 3677 TAD LAB: 3D Printing (2 credits)
- TADD 3678 TAD LAB: CNC Woods (2 credits)
- TADD 3679 TAD LAB: CNC Metals (2 credits)
- TADD 3680 TAD LAB: AutoCAD (2 credits)

### PROTOTYPE ENGINEERING & MODEL MAKING EMPHASIS

Complete the following courses:

- TADD 3220 Conceptual Prototype Engineering (2 credits)
- TADD 3240 Prototype Engineering & Detailing (2 credits)

- TADD 3250 Product Model Making (2 credits)
- TADD 3260 Architectural Model Making (2 credits)
- TADD 3280 Furniture Design & Model Making (2 credits)
- TADD 3320 Package Design (2 credits)
- TADD 3400 Sculpture: Experimental (2 credits)
- TADD 3410 Sculpture: Traditional (2 credits)
- TADD 3448 Tech Toolbox II: Fusion 360 (2 credits)
- TADD 3553 Tech Toolbox III: 3ds Max (2 credits)
- TADD 3700 Materials, Lighting, and Structures (2 credits)
- TADD 4430 Sculpture: CNC (2 credits)
- TADD 4860 Advanced Prototype Engineering & Model Making (2 credits)

### Program Learning Outcomes | Technology, Art & Design, B.S.

1. Students will communicate effectively in oral, written and visual forms.
2. Demonstrate knowledge in diverse cultural and historical perspectives and apply them to their art and design practice.
3. Students will develop and demonstrate competence in implementing art and/or design principles.
4. Students will demonstrate the ability to implement the creative process independently and/or interdependently.
5. Students will exhibit the ability to seek, give and accept constructive criticism.