

# CREATIVE TECHNOLOGIES



**D**o you tinker, build, make, create, invent or innovate? The creative technology major is an interdisciplinary program that combines studies in technology, design thinking, computer science, and business. It uses hands-on technology projects as the means for developing student creativity, analytical and problem solving skills, mathematical and scientific reasoning, collaborative abilities, aesthetic sensibilities, computing, programming skills, project management skills and strategic insights.

Here are the disciplines that combine to make up the Creative Technologies major:

Academic discipline	Courses required	Electives available
Computer science	2	✓
Creative technologies	4	✓✓
Business	2	✓✓
Science	1	✓
Art, Communications and Theatre		✓
Psychology		✓
<b>Total</b>	<b>9</b>	<b>2</b>

Eleven courses (33 credit hours) are required. The Creative Technologies major is small enough that it can be combined with most other majors and still be completed in about four years. Depending on the other major, some summer course work may be needed.

### The Toolbox

The program of study will utilize both digital and traditional technologies including the following:

- 3-D printing
- 3-D scanning
- Laser cutting
- Computer aided design (CAD)
- Small scale CNC machining
- Programmable logic controllers
- Industrial robotics
- Fiberglass fabrication
- Welding
- Woodworking

### Definitely Not Vo-tech

The Creative Technologies major is not a series of shop classes or preparation for a trade. None of the technologies listed is an end in itself. All

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are used to facilitate understanding human usage of objects in the *world as it is*, thinking about *what could be*, and solving the hard problems that change *what could be* into *what is*.

### **Making A Difference Through Design**

The Creative Technologies major makes it possible for students to engage in projects of personal interest including those that could be commercially viable or address unmet societal needs. Successful students will need to have personal passions, goals, interests and ideas to motivate their projects. A propensity for whimsy, playfulness and bling is a plus. However, make no mistake, the projects are hard work and time consuming.

