

Course Description

Course Name: Design Technology 1

Course Number: TEC 4110, TEC 4120, TEC 4130

Brief Course Overview:

9-12

Inspire. Create. Share! Design Technology I meets in the NBPS Maker Lab, where students will be inspired to transform ideas from design to prototyping to fabrication (inventing or making things). Along with learning how to use digital tools and technologies like 3D printers and laser cutters, students will learn the art of hand-made creations too!

Project concepts and themes will be explored and researched through an interdisciplinary approach, combining Science, Technology, Engineering, Arts, and Math (STEAM). Students will have opportunities to develop their own creativity, exploring how to make cool stuff using the design process along with hands-on problem solving.

Expressing who we are through the things we make grounds and connects us as human beings. Creative expression transforms us through our journey of becoming the next best version of who we will be, and what we will share with the world!

Trimester Themes

- Trimester 1: “Make Things Move”, exploring motion through 3D printing, laser cutting, and hand building
- Trimester 2: “Let There Be Light”, exploring electricity and the beauty of light through 3D printing, laser cutting, and hand building
- Trimester 3: “Life: Here and Elsewhere”, exploring living things through 3D printing, laser cutting, and hand building

Prerequisites: None

Course Length: 1, 2, or 3 trimesters, taken in the same academic year

Meets NBPS Graduation Requirement? Elective

Included in Bright Futures GPA calculation? No

Included in NBPS GPA? Yes

NCAA Core Class? No

State University Core Class? No