

Product Design Pathway



Industry Sector: Manufacturing and Product Development

CTE Pathway: Product Innovation and Design



With the chance to learn cutting-edge skills and to utilize both state-of-the-art and tried and true equipment, students are empowered to confidently face the dynamic technological developments of the 21st century.

Students utilize “additive design” techniques as they develop projects from concept to finished product. Student designers are encouraged to experiment, work through trial and error, and utilize creative solutions as they critique each other’s work to come up with their best project designs. They also learn the value and importance of collaboration in the design process and will team up to complete larger projects.

Key to successfully developing projects are charting time lines and work flow parameters, along with detailed blueprints, plans and design specifications.

Why Product Design Pathway?

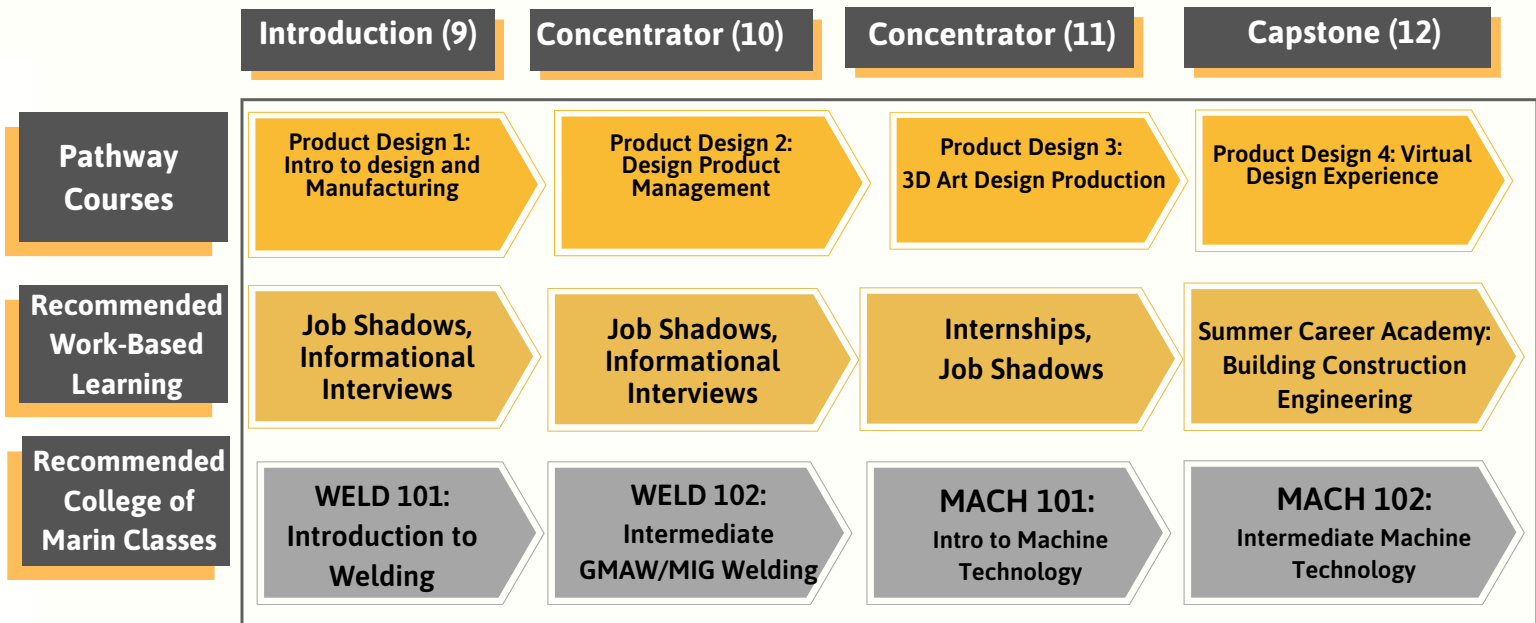
- Students are introduced to design thinking, traditional construction (woodshop), modern construction (3D printer, laser cutter, CNC milling), electronics, software, and presentation
- Work within teams to produce projects.
- Use the design center and work with mentors.
- Support Student interests, offers the space for student creativity.
- Structured to help students discover meaningful career pathways.
- Learn design while practicing skills aligned with student interest.

Have fun and learn valuable skills!

For more information, visit:
MSA: Product Design
or speak with your counselor!



Pathway Sequence of Courses



Areas of Study

Learn skills in these areas:

- Academic
- Social
- Professional
- Community Networking
- Job Shadows
- Student Research
- Field trips

Start your career path in various high-growth, high-paying industries!

Potential Occupations

- Lathe and Turning Machine Tool Setters
- Mechanical Drafters
- Electrical and Electronics Engineering Technician
- Fashion and Interior Designers
- Design for Manufacturing
- Welding
- Prototype Production
- Entrepreneurship

Labor Market Information - Bay Area Region
High-growth careers available in related industry sectors:

Commercial and Industrial Designers

Median Annual Wage:
\$115,907

Fashion Designer

Median Annual Wage:
\$95,883

Electrical Engineers

Median Annual Wage:
\$119,581

Source: CA Employment Development Department's Labor Market Information Division (EDD/LMID), long-term (10-year) Occupational Employment Projections for California and substate areas. Published April 2021. The above data is projected for the Bay Area Region, representing the North Bay, East Bay, Mid-Peninsula, Silicon Valley, and Santa Cruz-Monterey subregions.