DSGN 260 : PRODUCT DESIGN STUDIO II

Transcript title

Product Design Studio II

Credits

4

Grading mode

Standard letter grades

Total contact hours

80

Other hours

80

Prerequisites

DSGN 230.

Course Description

Continues the exploration of product design begun in Product Design Studio I by focusing on more complex aspects of designing and digitally developing products, moving from idea through to conceptual realization. Develops students' understanding of the nuanced factors that influence product design, sharpening their skills in both conceptualization and digital execution, and also encourages a deeper integration of creativity with sophisticated design skills that blend advanced theoretical knowledge with digital design practice. Repeatable for credit.

Course learning outcomes

1. Define the more complex aspects of sustainable product design, its evolving role in society, and historical transformations.
2. Describe how advanced manufacturing technologies and diverse materials influence advanced product development.
3. Analyze current and emerging product successes and challenges, with a focus on universal accessibility, inclusivity, and market dynamics.
4. Use advanced design thinking and studio methodologies to conceptualize, develop, and meticulously refine innovative product designs.

Content outline

1. Advanced Product Design Concepts: Delve deeper into complex aspects of product design, building upon foundational principles.
2. Contemporary Design Trends: Explore current and emerging trends in design, understanding their impact on modern product aesthetics and functionality.
3. Evolving Sustainable Design Practices: Examine advanced sustainable design strategies and their application in product development.
4. Materials, Techniques, and Future Technologies: Investigate advanced materials, production techniques, and emerging technologies in product design.
5. Complex Design Case Studies: Analyze intricate case studies of product design, focusing on cutting-edge and accessible design methodologies.
6. Advanced Design Thinking Methodologies: Further develop a sophisticated understanding of design thinking processes.
7. Comprehensive Studio-Based Projects: Undertake more complex, studio-based design projects, encompassing the entire process from advanced concept development to detailed digital prototype creation.

Required materials

Students will need to provide specific materials used in this course; please see the syllabus for a detailed list.