



Applied Lecture Courses

PROD 101 History & Analysis of Prod Des

This class studies the chronological context of the development of the product design profession, relating it to the social, cultural and economic events that helped shape our modern day society. Studies are focused on major industrial designers and innovations. This course has both a project and written analysis paper component. **3 credit hours - Lecture**

PROD 205 Applied Making I

This course introduces the development of rapid study models and mid-fidelity prototypes related to product design. Students, through a series of exercises, build study models of products to professional standards of accuracy and finish, with an emphasis on rapid development. Aspects of workshop practice and safety are emphasized. **3 credit hours - Lecture/Lab**

PROD 225 Computer Aided Imaging in PD

An applied computer laboratory in which students pursue the development of design projects using current product design photo realistic rendering software and 3D workstations for design and three dimensional modeling of products applicable to rapid prototyping. **3 credit hours - Lecture**

PROD 235 Applied Design Visualization

This course will provide students with schemas and strategies for using visualization as a thinking tool, as well as persuasive techniques for communicating design intent. It will put into practice the essential techniques that product designers use to think and communicate visually. **3 credit hours - Lecture**

PROD 245 Seminar Professional Landscape

In this course students explore current trends in the product design profession today. Students will research and present insights into important design issues, trends, and criticism in contemporary product design. Through extensive readings and discussions, students develop an understanding of the relationship of product design to society and culture. **3 credit hours - lecture**

PROD 255 Applied Materials in Pro Des

The course emphasizes the practical relationship between product design and the manufacturing industry and the technical considerations that influence the choice of material and process for small batch and mass production. **3 credit hours - lecture**

PROD 345 Applied Human Centered Design

This course explores the physical, psychological, perceptual, and behavioral characteristics of humans. Through a series of lectures and projects, this information is applied to the field of product design to develop safe and effective products. **3 credit hours - lecture**

PROD 425 Applied Design Research

This course covers diverse theories and methods for conducting product design research. Emphasis is given to understanding quantitative and qualitative research methods and the role of the designer in synthesizing and applying research as a critical part of the design process. This course combines writing and short projects. **3 credit hours - Lecture**

PROD 475 Professional Practice PROD

This course provides information about career planning and job seeking, including the development of cover letters, résumés, online and physical portfolios and the interview process. Practicing design professionals serve as guest speakers and conduct mock interviews to address topics relevant to the practice of product design. **3 credit hours - Lecture**

Studio Classes

PROD 210 Intro to Product Design

This course introduces students to basic product design techniques. It combines lectures, demonstrations, discuss design concepts and complete problem solving exercises exploring product design as a creative process in the production of simple objects. Students develop a command of product development, and skills in modeling and communicating their novel solutions. **3 credit hours - Studio**

PROD 220 Product Design Form Studio

This course uses principles of design in the visual organization of physical elements and analysis of form. Building on abstract relationships including additive and subtractive forms as well as gestalt. Students develop a sensitivity to form language, semantics and aesthetics of volumes and synthesize this abstract language into functional objects. **4 credit hours - Lecture/Studio**

Studio Classes - continued

PROD 230 Product Design Process Studio

In this course students are presented complex design issues in mass-produced objects. Students develop an understanding of the product development process focusing on the designers skills and technical knowledge to formulate appropriate design solutions. Students practice collaboration of ideas with engineers, marketing, users and shareholders.

4 credit hours - Lecture/Studio

PROD 340 Interdisciplinary PROD Studio

Through a focused design project, students of various backgrounds and departments collaborate on complex design issues as they seek to create an appropriate and novel solution to the assigned design problem. Bringing both the PROD majors and PROD minors together, students work as teams through the product development cycle.

4 credit hours - Lecture/Studio

PROD 460 Research Synthesis Studio

In this first of two senior studios, students apply their skills to initiate research on an opportunity of their selection. Under supervision, students demonstrate control of applied design research and synthesis. This course focuses on the information gathering, study, and analysis that product designers do to inspire and inform themselves. **4 credit hours - Studio**

PROD 470 Create Build Studio

In this second of two studios, students apply their skills to develop a solution based on the research conducted in the previous studio. Under supervision, students will demonstrate control of the a product design process in the production of a novel and appropriate user-focused solution. **4 credit hours - Studio**

PROD 480 Exhibition Studio

This final studio is a culmination of the educational experience in the production of a senior exhibition highlighting the students' accomplishments. Under supervision, students work together to demonstrate control of all aspects of the design process and visual communication in the production of a graduation exhibition. **4 credit hours - Studio**

PROD Elective Courses

PROD 215 Design Thinking in PROD

This course is a studio-seminar exploring principles and theories of product design, systematic design process, problem solving, decision making and design as authorship. The course uses design research methods, and topical design issues to explore and experience design thinking. **4 credit hours - Studio**

PROD 350 Sponsored PROD Studio

Students undertake projects that are sponsored by industry partners to investigate a broad range of design, marketing and production issues. In this course, students, working in a team environment, research user needs, human factors, aesthetic issues, manufacturing requirements, and market demands to identify user needs and product opportunities.

4 credit hours - Studio

PROD 399 Indep Study Product Design

Provides individualized study in graphic design in a specialized area of study. May be repeated 2 times for credit. Department permission required.

3 credit hours

PROD 465 Special Topics PROD

Provides study in product design on a special topic or on an experimental basis. May be repeated 2 times for credit if topics vary.

4 credit hours - Lecture/Studio