

# Industrial Design

## Lower Division

### **DSID 021. Visualization I**

Presenting design concepts in both preliminary and finished states. Appraisal and application of media used in industry. Includes elements of color theory.  
3 units

### **DSID 022. Visualization II**

Sketching techniques commonly used by designers for communicating their concepts. Prerequisite: DSID 21, DSID 31. Repeatable for credit  
3 units

### **DSID 031. Industrial Design Foundation I**

Practical exploration of the basics of industrial design aesthetics. Introduction to the design process with special emphasis on 3D form development and presentation. Corequisite: DSID 21. Repeatable for credit  
3 units

### **DSID 032. Industrial Design Foundation II**

Development and application of basic industrial design skills, methodology and aesthetics to elementary product design. Project assignments leading from abstract exercises to actual product design. Prerequisite: DSID 21, DSID 31. Repeatable for credit  
2 units

### **DSID 032A. ID Portfolio Project I**

ID portfolio project class combines 2D and 3D skills from previous ID classes, in the first complete product design application. Complete presentation for ID faculty review required. Repeatable for credit  
Credit / No Credit  
1 unit

### **DSID 040. Product Design I**

See TECH 040.  
Repeatable for credit  
3 units

## Upperer Division

### **DSID 121. Industrial Design Process**

Explores how a conscious and rational approach can enhance creativity. Techniques used include

goalsetting, brainstorming, time-management, evaluation matrices and journal keeping. Prerequisite: Pass portfolio review.  
3 units

### **DSID 123. Intermediate Industrial Design**

Design theories, methods and presentation techniques used by product designers in small scale product design. Stress application of knowledge of ergonomics, industrial materials and manufacturing processes. Course is repeatable for total of 6 units. Prerequisite: ART 13, ART 24 or ART 25, DSID 32A, DSID 21, DSID 22, DSID 31, DSID 32; PHYS 1; ARTH 70A or ARTH 70C; ARTH 70B. Repeatable for credit  
3 units

### **DSID 123A. ID Portfolio Project 2**

Provides instruction on integrating ergonomics, CAD, and typography into intermediate ID Projects. Comprehensive presentation for ID faculty required. Prerequisite: DSID 32A, DSID 126, DSGD 99, TECH 120. Repeatable for credit  
Credit / No Credit  
1 unit

### **DSID 124. Design for All**

Designing for as broad a percentage of the population as possible. Course focuses on accessible design despite physical, cognitive and/or socioeconomic obstacles. Course is repeatable for a total of 6 units. Prerequisite: Credit for DSID 32A Portfolio Review. Prerequisite: Pass portfolio review. Lab 9 hours. Repeatable for credit  
3 units

### **DSID 125. Advanced Industrial Design**

Advanced exploration of industrial design theory and practice with projects involving high levels of complexity of technological, functional and aesthetic constraints. Course is repeatable for a total of 6 units. Prerequisite: DSGD 99, DSID 123 (6 units), DSID 123A, DSID 126, DSID 176, TECH 103, TECH 120. Lab 9 hours. Repeatable for credit  
3 units

### **DSID 125A. ID Portfolio Project 3**

Class requires integration of advanced computer graphics and technology knowledge in the advanced ID Projects, comprehensive presentation for ID faculty and invited professionals required. Prerequisite: DSID 123A, DSID 129, DSID 176, TECH 103, TECH 143. Repeatable for credit  
Credit / No Credit

1 unit

### **DSID 126. Ergonomics for Design**

Aspects of products affecting human performance, comfort and safety. Emphasis on design of computer interfaces, automobiles and furniture. Topics include visual displays, anthropometry, seating design and safety design. Prerequisite: Pass portfolio review.

3 units

### **DSID 128. Advanced Projects in Industrial Design**

Comprehensive, in-depth analysis and design of faculty-assigned projects as well as a student-proposed project. Student proposed projects must meet with the approval of the Industrial Design faculty. Prerequisite: DSID 121, DSID 125A, DSID 129, DSGN 127 or instructor permission. Lab 9 hours.

Repeatable for credit

3 units

### **DSID 128A. ID Portfolio Project 4**

Class requires integration of business and advanced technologies into the special graduating project. Final show and presentation for ID faculty and invited professionals required. Prerequisite:

DSID 125A, DSID 121, BUS 130, BUS 136 or equivalent. Repeatable for credit

Credit / No Credit

1 unit

### **DSID 129. Visualization III**

Principles of computer graphics, computer-aided technology and applications in industrial design. Emphasis on the transition from 2D applications to 3D applications. Prerequisite: DSID 22, DSID 32, DSID 32A credit. Repeatable for credit

3 units

### **DSID 130. Sustainable Design**

Design products with a focus on minimizing their impact on the environment. The entire lifespan of designed and manufactured products will be explored. Course is repeatable for credit for a total of 6 units. Prerequisite: Credit for DSIS 32A Portfolio Review. Offered only occasionally. Repeatable for credit

3 units

### **DSID 131. Interactive and Interface Design**

Advanced practical applications of interactive design theory, involving hardware and software/

human interface. Emphasis on computer-related interface design. Prerequisite: BS Industrial Design or BS Graphic Design Majors, DSID 126. Repeatable for credit

3 units

### **DSID 132. Softgoods**

Design of products that incorporate soft materials and textiles in their construction. Products include furniture, clothing, shoes, and other products that contribute to current lifestyles. Prerequisite: DSID 32A credit or instructor permission. Repeatable for credit

3 units

### **DSID 133. Design Projects: Making It**

Students take an idea from concept to actual product (and multiples of the product) in one semester. The course ends with the creation of a store and the sale of the products produced. Prerequisite: DSID 32A credit or instructor permission. Repeatable for credit

3 units

### **DSID 135. Design, Entrepreneurship, Intellectual Property and Professional Practice**

Strategies for entering the profession as a business owner or design entrepreneur. Course includes the exploration of past and future business models as well as issues of intellectual property protection. Prerequisite: DSID 125A credit or instructor permission. Repeatable for credit

3 units

### **DSID 136. Advanced Digital Workshop**

Advanced Digital modeling and prototyping tools for Industrial Design. Prerequisite: DSID 32A credit, DSID 129 or instructor permission. Repeatable for credit

3 units

### **DSID 137. Advanced Physical Prototyping**

Advanced Prototyping techniques for Industrial Design including patternmaking, sewing and casting. Prerequisite: DSID 123A credit or instructor permission. Repeatable for credit

3 units

### **DSID 140. Product Design II**

See TECH 140.

Repeatable for credit

3 units

**DSID 141. Product Design III**

See TECH 141.

3 units

**DSID 176B. Industrial Design in Society**

See ARTH 176B.

3 units