Courses

**DES 040 Product Design I: Form, Process and Concept 4 Credits**
Introduction to the field of Industrial Design. Through research, analysis, drawing and prototyping, students will acquire an understanding of the various aesthetic, technological, and business issues a designer must consider when creating a product. Consent of department required.
Prerequisites: (ART 003 or ART 011) and ART 004
Attribute/Distribution: HU

**DES 053 Introduction to Graphic Design 4 Credits**
This course serves as an introduction to the graphic design process, with a primary focus on concept development and craft. Students examine how to identify and resolve visual problems and learn the basics of design and typography. Creative solutions will be encouraged for projects with practical applications. Topics include logo development and execution, professional typography, image basics and resolution, print production, studio skills and professional practices. Digital applications include Photoshop, Illustrator and InDesign.
Prerequisites: ART 003
Attribute/Distribution: HU

**DES 066 Design History 4 Credits**
History of product design, graphic design and time-based media in artistic, cultural, technological, and business contexts.
Attribute/Distribution: HU

**DES 070 Web Design I 4 Credits**
Introduction to the design and fabrication of web pages. Students will learn how to create pages using HTML and web fabrication software, with an emphasis on aesthetic and structure.
Prerequisites: ART 003
Attribute/Distribution: HU

**DES 073 Special Topics in Design 1-4 Credits**
An introduction to methods and techniques of design studio. Designed to acquaint the student with general design elements, covering topics not covered in other specific studio course listings. Instructor permission required.
Repeat Status: Course may be repeated.
Attribute/Distribution: ND

**DES 079 (ASIA 079) Digital Bridges 2 Credits**
Run as an independent study: research ancient Chinese bridges, gardens, and pavilions. Digitize images and website design. Create photographic documentation of the Bridge Project. Produce documentary from historical materials concerning history of Chinese students at Lehigh. Bridge Project students could continue project work in Shanghai and Beijing.
Repeat Status: Course may be repeated.

**DES 087 Design for the Theatre 4 Credits**
Introduction to the process of creating integrated designs in theatre production. The study and practice of the principles of visual representation, historical and conceptual research and the study of theatrical styles.
Attribute/Distribution: HU

**DES 111 (THTR 111) Sound Design 2 Credits**
Techniques, materials, and methods of designing sound for theatrical production.
Attribute/Distribution: HU

**DES 129 (THTR 129, WGSS 129) History of Fashion and Style 4 Credits**
Dress and culture in the Western Hemisphere from prehistory to today. The evolution of silhouette, garment forms and technology. The relationship of fashion to politics, art and behavior. Cultural and environmental influences on human adornment.
Attribute/Distribution: HU

**DES 140 Product Design II: Designing for Others 4 Credits**
This course will expose students to client based projects and issues of branding relevant to the product designer. Special emphasis will be given to functionality from a user centered perspective. Projects will also include the use of 3D digital prototyping software and computer based fabrication techniques.
Prerequisites: DES 040
Attribute/Distribution: ND

**DES 148 Furniture Design I 4 Credits**
Design methodology, fabrication techniques, and methods of design presentation.
Prerequisites: ART 004
Attribute/Distribution: HU

**DES 153 Graphic Design: Word and Image 4 Credits**
This course explores techniques of image making in relation to analyzing and creating meaning in graphic and typographic messages. Students solve visual communication problems with visual, conceptual and social impact. Assignments may include book covers, posters, music packaging, and promotional materials. Students will work in both traditional and digital media.
Prerequisites: ART 053 or DES 053
Attribute/Distribution: HU

**DES 154 (THTR 154) Scene Painting 4 Credits**
Study and practice of basic and advanced methods of painting for the theatre. Includes basic elements and principles of design, color theory, the influence of light, atmosphere and aesthetics for the theatre.
Attribute/Distribution: HU

**DES 155 (THTR 155) Model Building and Rendering 4 Credits**
The art and practice of model building and rendering for the stage. Special techniques including scale furniture, soldering, acrylic painting and hand drafting.

**DES 164 Ergonomics 4 Credits**
Introduction to physical, emotional, and psychological ways design interacts with people. Analyze real design problems and create solutions.
Attribute/Distribution: HU

**DES 170 Web Design II 4 Credits**
Creation of dynamic content in web design. Various 2D animation software applications and simple scripting will be explored.
Prerequisites: DES 070
Attribute/Distribution: ND

**DES 173 Special Topics in Design 1-4 Credits**
Directed projects in design with selected readings as required. Student must initiate contact with sponsoring professor. Instructor permission required.
Repeat Status: Course may be repeated.
Attribute/Distribution: ND

**DES 186 (THTR 186) Lighting Design 4 Credits**
An introduction to the art and practice of lighting design for the theatre. Script analysis, research, and the interplay of lighting technology and design. Students will develop a sense of the dramatic while creating a portfolio of lighting designs.
Prerequisites: THTR 087 or DES 087
Attribute/Distribution: HU

**DES 188 (THTR 188) Scenic Design 4 Credits**
An introduction to the art and practice of scenic design for the theatre. Script analysis, research, drafting and modeling techniques. Students will develop a sense of the dramatic while creating a portfolio of scenic designs.
Prerequisites: THTR 087 or DES 087
Attribute/Distribution: HU
DES 189 (THTR 189) Costume Design 4 Credits
An introduction to the art and practice of costume design for the
theatre. Script analysis, research and rendering techniques. Students
will develop a sense of the dramatic while creating a portfolio of
costume designs.
Prerequisites: THTR 087 or DES 087
Attribute/Distribution: HU

DES 212 (BUS 212, ENGR 212, MAT 212, ME 212) Integrated
Product Development (IPD) 22 Credits
Business, engineering, and design arts students work in cross
disciplinary teams of 4-6 students on the detailed design including
fabrication and testing of a prototype of the new product designed in
the IPD course 1. Additional deliverables include a detailed production
plan, marketing plan, detailed base case financial models, project and
product portfolio. Teams work on projects with external sponsors, from
student start-ups to global industries, mentored by faculty or graduate
student advisers. Oral presentations and written reports.
Prerequisites: BUS 211 or DES 211 or ENGR 211 or ME 211
Attribute/Distribution: ND

DES 240 Product Design III: Materials to Market 4 Credits
In this advanced level studio students will research fabrication
techniques and materials, develop ideas into prototypes, outsource
production and sell their designs in a competitive retail market. This
course confronts the financial realities of being an independent
designer while offering an opportunity to create innovative and
desirable domestic products.
Prerequisites: DES 240
Attribute/Distribution: ND

DES 248 Furniture Design II 4 Credits
Advanced fabrication. Contemporary art issues and furniture history.
Repeat Status: Course may be repeated.
Prerequisites: DES 148
Attribute/Distribution: HU

DES 253 Graphic Design: Brand Experience 4 Credits
In this course, students examine the basic principles of corporate
identity and develop a clear understanding of the process of creating
brands. Projects will offer a framework for looking at business strategy
as it relates to the creative process of design. Emphasis will be placed
on creating visual elements that support a brand and the steps a
designer takes to create a consistent brand. In addition, students will
develop self-promotion materials and identity systems.
Prerequisites: DES 253
Attribute/Distribution: HU

DES 260 Exhibit Design 4 Credits
Team projects in development of exhibits for museums, conferences,
or educational centers. Project work is supplemented by lectures and
demonstrations. Teams will produce real and virtual exhibit prototypes
and will design and maintain an exhibit website.
Attribute/Distribution: HU

DES 266 History of Contemporary Design 4 Credits
History of modern design from mid 19th century to the present.
Studies and discussion of contemporary issues and technology in
Design Arts. Topics will include green design, digital technology,
current legal and ethical principles, and other issues.
Attribute/Distribution: HU

DES 268 Advanced Design Projects 1-4 Credits
Advanced projects or studies applying Design Arts practices or
theories. Consent of instructor required. Consent of department
required.
Repeat Status: Course may be repeated.
Attribute/Distribution: ND

DES 300 Apprentice Teaching 1-4 Credits

DES 311 Design Portfolio 1-4 Credits
The concept, layout, and preparation of a portfolio for graduate school
application or employment search, including graphic techniques and
reproduction method. Student must contact sponsoring professor.
Repeat Status: Course may be repeated.
Prerequisites: DES 240 or DES 253

DES 348 Furniture Design III 4 Credits
Advanced fabrication, contemporary art issues and furniture history.
Prerequisites: DES 248
Attribute/Distribution: ND

DES 370 Special Topics in Design 1-4 Credits
Current topics in design, with selected readings, discussions, and
studio work as required. Must have completed two 100-level Design
courses. Consent of department required.
Repeat Status: Course may be repeated.
Attribute/Distribution: ND

DES 375 Design Internship 1-4 Credits
Practical experience following apprenticeship model. Requires
approval of instructor and host prior to beginning of the term, with a
memorandum of understanding outlining student work responsibilities
and educational objectives for the experience.
Repeat Status: Course may be repeated.
Attribute/Distribution: ND

DES 385 Fusion: Design Practice 4 Credits
Fusion offers students the opportunity to apply graphic design skills
to a wide variety of real world projects. Run as a design agency,
students work in teams, interact with clients, explore the creative
process and gain valuable experience. Design assignments include
branding & Identity, poster & promotion design, exhibition design, and
a multitude of other opportunities, including interdisciplinary and self-
initiated design projects. The focus is on strategic design thinking,
project management and collaborative teamwork.
Repeat Status: Course may be repeated.
Prerequisites: DES 053

DES 387 (THTR 387) Scenography II 4 Credits
Advanced projects in theatrical design. Portfolio readiness and
resume preparation.
Prerequisites: (THTR 087 or DES 087) and (THTR 186 or DES 186
or THTR 188 or DES 188 or THTR 189 or DES 189)
Attribute/Distribution: HU

DES 389 Honors Project 1-8 Credits
Repeat Status: Course may be repeated.