# Design (DES)

## Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>DES 025 (THTR 025)</td>
<td>Costume Construction I</td>
<td>0.2</td>
<td>Introduction to the art of costume construction. Costume construction materials, techniques, tools, and safety. Practical experience in executing costumes for the stage.</td>
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<tr>
<td>DES 026 (THTR 026)</td>
<td>Costume Construction II</td>
<td>0.2</td>
<td>Continuation of THTR 25 - Costume Construction I, including pattern drafting, fitting, crafts and accessories. Materials, methods and problem solving. Practical experience in executing costumes for the stage.</td>
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<tr>
<td>DES 040 Product Design I: Form, Process and Concept</td>
<td>4</td>
<td>Credits</td>
<td>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.</td>
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<tr>
<td>DES 053 Introduction to Graphic Design</td>
<td>4</td>
<td>Credits</td>
<td>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.</td>
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<tr>
<td>DES 154 (THTR 154)</td>
<td>Digital Bridges</td>
<td>4</td>
<td>Credits</td>
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<tr>
<td>DES 153 Graphic Design: Word and Image</td>
<td>4</td>
<td>Credits</td>
<td>Motion graphics takes art and design elements: shapes, objects, photographs, type and gives them movement. We explore effects techniques applied to stills, graphics and short video and work with abstract transformations in time. Prerequisite: Art 003 or permission of the instructor.</td>
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</tbody>
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## Additional Notes

- **DES 025 (THTR 025) Costume Construction I**
  - Course Code: DES 025 (THTR 025)
  - Title: Costume Construction I
  - Credits: 0.2
  - Description: Introduction to the art of costume construction. Costume construction materials, techniques, tools, and safety. Practical experience in executing costumes for the stage.

- **DES 026 (THTR 026) Costume Construction II**
  - Course Code: DES 026 (THTR 026)
  - Title: Costume Construction II
  - Credits: 0.2
  - Description: Continuation of THTR 25 - Costume Construction I, including pattern drafting, fitting, crafts and accessories. Materials, methods and problem solving. Practical experience in executing costumes for the stage.

- **DES 040 Product Design I: Form, Process and Concept**
  - Course Code: DES 040
  - Title: Product Design I: Form, Process and Concept
  - Credits: 4
  - Description: 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.

- **DES 053 Introduction to Graphic Design**
  - Course Code: DES 053
  - Title: Introduction to Graphic Design
  - Credits: 4
  - Description: 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.

- **DES 154 (THTR 154) Digital Bridges**
  - Course Code: DES 154 (THTR 154)
  - Title: Digital Bridges
  - Credits: 4
  - Description: 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.

- **DES 153 Graphic Design: Word and Image**
  - Course Code: DES 153
  - Title: Graphic Design: Word and Image
  - Credits: 4
  - Description: Motion graphics takes art and design elements: shapes, objects, photographs, type and gives them movement. We explore effects techniques applied to stills, graphics and short video and work with abstract transformations in time. Prerequisite: Art 003 or permission of the instructor.
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: HU

DES 172 (THTR 172) Textile Design II 4 Credits
Building on skills and concepts developed in Textile Design I, students will develop their own voice in textile, apparel and accessory design.
Prerequisites: DES 072 or THTR 072
Attribute/Distribution: HU

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: HU

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.
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.
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.
Attribute/Distribution: HU

DES 240 Product Design III: Materials to Market 4 Credits
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 040
Attribute/Distribution: HU

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
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 153
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.
Repeat Status: Course may be repeated.
Attribute/Distribution: HU

DES 272 (THTR 272) Advanced Textile Design Workshop 4 Credits
Building on skills and concepts developed in Digital Textile Design II, students work towards a maturing studio practice within an atmosphere of rigorous critique. Further exploration in the conceptual research and material tools of surface design in textiles developed in DES 072 and 172, with experimentation in broader media is encouraged. An expansion of knowledge of textiles and apparel in the 21st Century will inform the development of a design practice and portfolio. Prerequisite: DES 172 / THTR 172.
Repeat Status: Course may be repeated.
Prerequisites: DES 172 or THTR 172
Attribute/Distribution: HU

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: HU

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: HU

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
Attribute/Distribution: HU

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