

Art, Architecture, and Design

The Department of Art, Architecture and Design offers a BA degree in **four majors**: art, architecture, design, with concentrations in both graphic design and product design, and art history. It has **minor programs** in each field, and additional minors including apparel design and museum studies. It is one of the university's largest undergraduate departments, and offers an arts education that combines the depth and focus of disciplinary training with the breadth and flexibility of a liberal arts curriculum. The department also emphasizes hands-on and experiential learning outside the classroom, allowing students to harness the skills they learn in the studio for real-world application—as important tools for inquiry, dialogue, and service in the community and world at large.

Many courses require department permission. Students interested in enrolling in any of the department's courses should contact the department coordinator well before registration period to be eligible to register.

The **art major** centers on a fine arts and studio art education, covering media including drawing, painting, photography, printmaking, and sculpture. Studio work is enhanced by courses in history and theory, and museum and gallery visits both on and off campus.

For the student interested in becoming a creative artist, the major provides a foundation for a life in art, or more immediately, a path into an MFA graduate degree program in fine art. Many students choose to double major, and a major in art combined with a minor in education is available for students interested in becoming primary, secondary, or special education art teachers.

The **architecture major** is a pre-professional program focused on architectural design, complemented by courses in history and theory, building technology, and elective studio courses across the department.

The major provides a comprehensive undergraduate education that is the first step in a series of educational and apprenticeship requirements leading to professional registration and licensing, which will generally require students to continue on to an MArch from an institution offering a graduate program in architecture. The major also prepares students for direct employment in fields that do not require licensing, such as interior design, adaptive reuse, historic preservation, construction management, real estate development, and others. The BA major in architecture is different from a BArch, a professional five-year degree.

The **design major** offers students two tracks of study: in graphic design and product design. Graphic design focuses on visual communication through the use of imagery, typography, and visualization technologies, and students work across multiple platforms, including print media, web and mobile design, and user experience design (UI/UX). Product design focuses on the creation of physical objects of use, their design, prototyping, and production. This includes objects for industrial, household, medical, and transportation use, recreational equipment, furniture, apparel, accessories, jewelry, toys, and exhibit and trade design, among others.

Students majoring in design go on to careers in all areas of graphic design and product and industrial design. This includes advertising, marketing, publishing, packaging design, digital illustration and animation, the design of furniture, medical devices, and apparel, user experience design, service design, and many others.

An **art history** major provides students with a comprehensive education in the history of art, architecture, and museum practice. Through introductory and advanced coursework, as well as museum and site visits, students learn how to examine, evaluate, and interpret works of art and architecture, and acquire a working knowledge of the methods, theories, and research practices of art historical analysis.

The study of art and its history is a fundamental part of a liberal arts education, and art history is unique among academic fields in the breadth and diversity of its objects of study. Students majoring in art history go on to careers in museums, galleries, auction houses, private art sales, conservation, restoration, cultural heritage and preservation, education, publishing, and many other fields. The major

also provides an important foundation for students who plan to pursue advanced graduate studies in the arts and humanities.

Many students in the department choose to **double major** or to pursue a **dual degree**. Popular pairings include Civil Engineering, Computer Science, Industrial and Systems Engineering, Marketing, Management, Mechanical Engineering, and Psychology. Lehigh's **Arts-Engineering program**, a five-year, dual-degree course of study, allows students to link any College of Engineering and Applied Science major program with any College of Arts and Sciences major program, and to earn two degrees, one from each college. It pairs particularly well with majors in Art, Architecture and Design.

All programs in Art, Architecture and Design are multidisciplinary, and students are encouraged to take advantage of the many learning environments of the department and the university. Students have use of the department's 30,000 square feet of studio, lab, and classroom space on Lehigh's Mountaintop Campus, the collections and exhibitions of the Lehigh University Art Galleries, and the facilities and resources of the Lehigh University Design Labs. They are encouraged to make use of these facilities and resources to enhance and enrich their courses, and to help shape their own creative work.

DEPARTMENTAL HONORS

Exceptional students majoring in the department may in their junior year apply to pursue an Honors Project course for their senior year (ART 389, ARCH 389, DES 389). To be eligible, a student must have attained a 3.5 GPA in the major program and a minimum overall GPA of 3.0. Candidates should submit to the department chair a written proposal for their project, prepared in consultation with a faculty member who will serve as their honors sponsor. The project should result in a research paper, design project, or exhibition. Successful completion of the project will result in a "Department Honors" designation being affixed to the student's transcript.

ART MAJOR

44 credit hours required

Foundation		20
ART 001	Art and Architecture History: Ancient to Medieval	
ART 002	Art History: Renaissance to Present	
ART 003	Two-Dimensional Design	
ART 004	Three-Dimensional Design	
ART 011	Drawing I	
History		4
Choose one of the following		
ART 220	Modern Art of the 20th Century	
ART 221	Global Contemporary Art	
Studio		20
Choose two entry art studios		
ART 007	Digital Photography I	
ART 013	Sculpture I	
ART 015	Figure I	
ART 034	Plein Air Painting I	
ART 035	Painting I	
ART 037	Printmaking I	
ART 052	Introduction to Video Recording and Editing	
Choose one 100 level art studio		
ART 107	Digital Photography II	
ART 111	Drawing II	
ART 113	Sculpture II	
ART 115	Figure II	
ART 134	Plein Air Painting II	
ART 135	Painting II	
ART 137	Printmaking II	
Choose one 200 level art studio		

ART 213	Advanced Sculpture Workshop
ART 215	Advanced Figure Workshop
ART 217	Advanced Studio Workshop
ART 234	Advanced Plein Air Painting Workshop
ART 247	Advanced Photography Workshop
Choose one 300 level studio	
ART 317	Departmental Capstone
ART 373	Studio Art Internship
ART 389	Honors Project
DES 385	Fusion: Design Practice

Total Credits **44**

ART HISTORY MAJOR

44 credit hours are required.

Foundation

ART 001	Art and Architecture History: Ancient to Medieval
ART 002	Art History: Renaissance to Present
ART 003	Two-Dimensional Design
ART 004	Three-Dimensional Design
ART 175	Introduction to Museums and Museum Professions

Capstone - 1 course from the following List

ART 317	Departmental Capstone
ART 389	Honors Project
ART 375	Museum Internship
DES 385	Fusion: Design Practice

Electives - 5 courses from the following list ¹

See footnote instructions

ANTH 126	Urban Anthropology
ANTH 173	Archaeology of the Middle East
ANTH 176	Roman Archaeology
ANTH 178	Mesoamerican Archaeology
ARCH 002	History of Architecture
ARCH 209	
ARCH 159	Modern History and Sustainable Architecture in Munich
ARCH 210	20th Century Architecture
ARCH 342	Theory of Form and Materials
ART 069	Special Topics in Art History
ART/WGSS 121	Women in Art
ART/AAS/GS 124	Arts of the Black World 16th-20th Centuries
ART/AAS/GS 125	Art and Architecture of Africa from Colonial to Contemporary Times
ART 169	Special Topics in Art History
ART 220	Modern Art of the 20th Century
ART 221	Global Contemporary Art
ART 223	Writing Your Way Into the Arts
ART 227	Latin American Art
ART 228	
ART 269	Special Topics in Art History
ART 275	Museum Collections and Exhibitions
ART 276	Museum Education and Interpretation
ART 370	Special Topics in Museum Studies
DES 066	Design History
DES 266	
FILM 001	Introduction to Film
HIST 183	France from Medieval to Modern: Soc., Pol. & Art
HIST 184	Paris: The Global City

HIST 350	19th Century Paris and the Invention of Modernity
PHIL 123	Aesthetics
PHIL 223	Aesthetics Seminar
THTR 126	History of Interior Design and Decor
THTR 129	History of Fashion and Style

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Additional courses taught in AAD or in other disciplines may be substituted for the classes listed here at the discretion of the student's major advisor. Courses taken during study abroad must be pre-approved with the student's advisor if they are intended to fulfill requirements for the major.

ARCHITECTURE MAJOR

62-64 credit hours are required.

Foundation

16

ART 001	Art and Architecture History: Ancient to Medieval
ARCH 002	History of Architecture
ART 003	Two-Dimensional Design
ART 004	Three-Dimensional Design

Architecture Studios

24

ARCH 034	Digital Drawing and 3D Modeling
ARCH 043	Architectural Design I
ARCH 143	Architectural Design II
ARCH 243	Architectural Design III
ARCH 311	Architectural Portfolio
ARCH 343	Architectural Design IV

Studio Electives: Select two (2) of the following* 7-8

ARCH 123	Visualization and Fabrication in Architecture
ARCH 211	Architectural Drawing/Analysis and Expressions <small>Lehigh in Vicenza Summer Program</small>
ART 007	Digital Photography I
ART 011	Drawing I
ART 013	Sculpture I
ART 015	Figure I
ART 034	Plein Air Painting I
ART 035	Painting I
ART 052	Introduction to Video Recording and Editing
ART 111	Drawing II
ART 113	Sculpture II
ART 115	Figure II
ART 135	Painting II
DES 040	Product Design I: Form, Process and Concept
DES 053	Introduction to Graphic Design
DES 140	Product Design II: Designing for Others
DES 148	Furniture Design I
DES 153	Graphic Design: Word and Image
DES 248	Furniture Design II

History and Theory

7-8

ARCH 210	20th Century Architecture
Select one (1) of the following:	
ANTH 126	Urban Anthropology
ANTH 173	Archaeology of the Middle East
ARCH 126	History of Interior Design and Decor
ARCH 159	Modern History and Sustainable Architecture in Munich <small>Lehigh in Munich Winter Program</small>

ARCH 176	Roman Archaeology	
ARCH 184	Paris: The Global City	
ARCH 187		
ARCH 209		
ARCH 335	Issues in Contemporary Architecture	
ARCH 342	Theory of Form and Materials	
ART 124	Arts of the Black World 16th-20th Centuries	
ART 125	Art and Architecture of Africa from Colonial to Contemporary Times	
ART 183	France from Medieval to Modern: Soc., Pol. & Art	
ART 221	Global Contemporary Art	
DES 129	History of Fashion and Style	
DES 066	Design History	
PHIL 123	Aesthetics	
Materials and Technology		8
ARCH 157	Architectural Technology I	
ARCH 158	Architectural Technology II	

Total Credits **62-64**

Some graduate programs in Architecture require prior college-level Calculus or Physics. Those requirements may be met by the following courses. It is recommended that students discuss their plans with their Academic Adviser.

Mathematics Recommendation

Select one of the following:		5-8
MATH 021	Calculus I	4
MATH 051	Survey of Calculus I	4
MATH 075 & MATH 076	Calculus I, Part A and Calculus I, Part B	4

Physical Science Recommendation

PHY 012	Introductory Physics Laboratory I	1
Select one of the following:		
PHY 010 or PHY 011	General Physics I Introductory Physics I	4

A typical first-year might consist of:

First Year			
First Semester	Credits	Second Semester	Credits
First-year seminar	3-4	ARCH 002	4
ART 001	4	ART 003	4
MATH 021 or 051	4	ENGL 002	3
ENGL 001	3	PHY 010 or 011 (or) PHY 012	4
			1
	14-15		16

Total Credits: 30-31

DESIGN MAJOR

48 credit hours required

Foundation **20**

ART 001	Art and Architecture History: Ancient to Medieval	
ART 002	Art History: Renaissance to Present	
ART 003	Two-Dimensional Design	
ART 004	Three-Dimensional Design	
ART 011	Drawing I	

History **4**

Choose one of the following:

ART 220	Modern Art of the 20th Century	
ART 221	Global Contemporary Art	

Core Concentration **24**

Graphic Design

DES 053	Introduction to Graphic Design	
DES 153	Graphic Design: Word and Image	
DES 253	Graphic Design: Brand Experience	
Plus three elective studios from following:		
ART 007	Digital Photography I	
ART 035	Painting I	
ART 037	Printmaking I	
DES 040	Product Design I: Form, Process and Concept	
DES 070	Web Design I	
DES 170	Web Design II	
DES 385	Fusion: Design Practice	
Other AAD elective studios can be chosen in consultation with your adviser		

Product Design

DES 040	Product Design I: Form, Process and Concept	
DES 140	Product Design II: Designing for Others	
DES 240	Product Design III: Materials to Market	
Plus three elective studios from the following:		
ARCH 043	Architectural Design I	
ART 013	Sculpture I	
ART 113	Sculpture II	
DES 053	Introduction to Graphic Design	
DES 070	Web Design I	
DES 072	Textile Design I	
DES 148	Furniture Design I	
DES 172	Textile Design II	
DES 248	Furniture Design II	
DES 272	Advanced Textile Design Workshop	
DES 385	Fusion: Design Practice	
Other AAD elective studios can be chosen in consultation with your adviser		

Total Credits **48**

Architecture Courses

ARCH 002 History of Architecture 4 Credits

Survey of architecture from the Renaissance to the present, examined in the context of culture formation, design concepts, and the built environment.

Attribute/Distribution: HU

ARCH 010 (CEE 010) Engineering/Architectural Graphics and Design 0,3 Credits

Graphical communication of civil engineering or architectural projects using manual techniques and commercial state-of-the-art computer software. Topics include visualization and sketching; orthographic, isometric and other drawings; points, lines and planes in descriptive geometry; site design; overview of geographical information systems and 3D applications. Teamwork on design projects with oral and graphical presentations. Open to a limited number of architecture, design arts or other students with project roles consistent with students' background. Not available to students who have taken MECH 10.

Attribute/Distribution: ND

ARCH 034 Digital Drawing and 3D Modeling 4 Credits

In our increasingly visual world we often need to present ideas in realistic, expressive, and engaging ways. This introductory course presents the basics of digital drawing and rendering through the lens of architecture, but is intended for students of all disciplines interested in visual communication. This project-based course focuses on the essentials of AutoCAD, SketchUp, and Revit supplemented with V-Ray and Photoshop for rendering.

Attribute/Distribution: HU

ARCH 043 Architectural Design I 4 Credits

Fundamental design studio for architecture majors. Composition, spatial concepts; precedent; materials and detail; light and color in architecture. Instruction in basic communication techniques. Recommended to be taken concurrently with ARCH 034.

Prerequisites: ART 004

Attribute/Distribution: HU

ARCH 071 Special Topics in Architecture 1-4 Credits

Directed projects for students in architecture. Student must initiate contact with sponsoring professor. Permission of Instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ARCH 123 Visualization and Fabrication in Architecture 4 Credits

This course concentrates on visualization and fabrication in architecture. Students are introduced to advanced architectural diagramming and model-making as well as conventional and digital representation skills. This course investigates architectural graphics as an active means of communication and as a generative element in organizing architectural space. Precedents and examples are extensively researched. All exercises are designed to enhance students' ability to imagine and visualize complex architectural forms and spaces. Various architectural materials are employed and tested.

Attribute/Distribution: HU

ARCH 126 (ART 126, THTR 126) History of Interior Design and Decor 4 Credits

Survey of architectural interiors and décor examining public and domestic spaces and their contents in terms of period and style. Exploration of major art and design movements through the lens of interior spaces and objects within the context of culture and society.

Attribute/Distribution: HU

ARCH 143 Architectural Design II 4 Credits

Studio format, introductory course in architectural design which introduces students to new ways of thinking about architecture and the perception of space, three-dimensional composition, drawing, and model-making. Recommended to be taken concurrently with ARCH 157.

Attribute/Distribution: HU

ARCH 157 Architectural Technology I 4 Credits

The two-course sequence (ARCH 157 & ARCH 158) introduces the use of building materials, components and systems (slabs, walls, trusses, facade systems, etc.) while providing students with the knowledge to design and construct comfortable, technically sound and aesthetically pleasing buildings. Recommended to be taken concurrently with ARCH 143.

Attribute/Distribution: HU

ARCH 158 Architectural Technology II 4 Credits

The two-course sequence (ARCH 157 & ARCH 158) introduces the use of building materials, components and systems (slabs, walls, trusses, facade systems, etc.) while providing students with the knowledge to design and construct comfortable, technically sound and aesthetically pleasing buildings. Recommended to be taken concurrently with ARCH 243.

Attribute/Distribution: HU

ARCH 159 Modern History and Sustainable Architecture in Munich 3 Credits

This Lehigh faculty-led study abroad program allows students from an array of majors to earn three credits over winter break. The program will explore the history, culture, and architecture of Munich, a capital and center of the southern state of Germany, Bavaria. The program of study does not require German language skills. Fulfills an history/theory elective requirement for the BA in Architecture major.

Attribute/Distribution: HU

ARCH 171 Special Topics in Architecture 1-4 Credits

Directed projects for students in architecture. Student must initiate contact with sponsoring professor. Must have major standing in department and/or consent of instructor.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ARCH 176 (ANTH 176, ART 176, CLSS 176) Roman Archaeology 4 Credits

Cultures of the Roman Empire. Reconstructions of social, political, and economic dynamics of the imperial system from study of artifacts.

Attribute/Distribution: SS

ARCH 184 (GS 184, HIST 184) Paris: The Global City 3 Credits

An overview of the development of the city of Paris from its origins as an outpost on the far reaches of the Roman Empire to its rise as capital of medieval Christendom, from seat of Absolute Monarchy to birthplace of modern revolutions, resistance and occupation in the era of world wars, and model of modern urban planning in the 19th, 20th and 21st centuries. Focus is on the way global contexts shaped social and political life at the local level.

Attribute/Distribution: HU

ARCH 210 20th Century Architecture 4 Credits

History and theories of modern and contemporary architecture. Analysis of buildings, architects, theories and manifestos from the early 20th century to the present.

Prerequisites: ART 001

Attribute/Distribution: HU

ARCH 211 Architectural Drawing/Analysis and Expressions 3 Credits

This studio course is part of the Lehigh in Italy summer program and will utilize several different architectural drawing techniques to study aspects of architecture from analysis of a piazza to architecture in detail. It will employ pencil sketching, charcoal drawing, and watercolor. These drawings will act as a way of seeing the Italian urban landscape and supplement the study and analysis of the Italian architects' contemporary work. Fulfills an art studio elective requirement.

Attribute/Distribution: HU

ARCH 243 Architectural Design III 4 Credits

Design principles of space and form and issues of "materiality," "structure," "modes of representation" and the "process of making." Recommended to be taken concurrently with ARCH 158, except for Arts Engineers and non-majors.

Attribute/Distribution: HU

ARCH 271 Special Topics in Architecture 1-4 Credits

Directed projects for advanced students in architecture or architectural criticism. Must have major standing in the department or permission of the instructor. Student must contact sponsoring professor and complete a contract sheet at preregistration.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ARCH 300 Apprentice Teaching 1-4 Credits

Supervised participation in various aspects of the teaching of a course. Transcript will identify department in which apprentice teaching was performed. Consent of department chair required. The transcript will reflect the subject area in which the teaching was done.

Repeat Status: Course may be repeated.

ARCH 311 Architectural Portfolio 4 Credits

The course will aid students in the concept, layout, and preparation of a portfolio for graduate school application or employment search. Graphic techniques and reproduction methods will be emphasized via software workshops and weekly feedback. Recommended to be taken with ARCH 343. Non-architecture majors interested in taking the course should contact the instructor.

Repeat Status: Course may be repeated.

Prerequisites: ARCH 243

Can be taken Concurrently: ARCH 243

Attribute/Distribution: HU

ARCH 335 Issues in Contemporary Architecture 4 Credits

Seminar on selective architectural topics from the 1960s to the present. Analysis of important architectural projects and theories. Interaction among architecture and social, economic, political and technological changes.

Prerequisites: ART 001 and ARCH 002

Attribute/Distribution: HU

ARCH 342 Theory of Form and Materials 4 Credits

Study of the genesis of form, its representation and its interrelationship to related artistic disciplines. Formal notions will be studied, compared and manipulated through the role of time, scale, perceptual analysis and material transformation. Consent of instructor required.

Attribute/Distribution: HU

ARCH 343 Architectural Design IV 4 Credits

The design of buildings and building groups, with the emphasis on urban design and the city. Recommended to be taken concurrently with ARCH 311.

Attribute/Distribution: HU

ARCH 389 Honors Project 1-8 Credits

Repeat Status: Course may be repeated.

Art Courses**ART 001 Art and Architecture History: Ancient to Medieval 4 Credits**

Survey of art and architecture around the globe, from the world's earliest artistic and architectural production through the 14th century. European, Middle Eastern, African, Asian and Central and South American works are covered. The course also serves as an introduction to the vocabulary, concepts, and methods of art and architectural history.

Attribute/Distribution: HU

ART 002 Art History: Renaissance to Present 4 Credits

Survey of art and architecture from the Renaissance through the contemporary era. Examining developments in painting, sculpture, and the built environment, as well as the rise of media such as printmaking and photography, the course explores the changing form and status of the visual arts in modern culture and society.

Attribute/Distribution: HU

ART 003 Two-Dimensional Design 4 Credits

This class will present the foundations necessary to understand, discuss and create in the two-dimensional visual world. Using variety of materials and techniques and digital media, students will explore the concepts of line, form, shape, value, texture, space and color. Required for all Architecture, Art, Art History and Design majors.

Attribute/Distribution: HU

ART 004 Three-Dimensional Design 4 Credits

An introduction to the basic elements and principles of design. involves use of various materials to solve 3D design problems in studio and computer lab. Problem solving in variety of materials for 3D design including assemblages, models, constructions, and conceptual forms. Required for all majors in department.

Attribute/Distribution: HU

ART 007 (FILM 007) Digital Photography I 4 Credits

Intensive work in photography as fine art using digital input and output. Lectures, demonstrations, critiques.

Attribute/Distribution: HU

ART 011 Drawing I 4 Credits

Concepts and practice of drawing, both traditional and contemporary. Includes drawing from life and an introduction to materials and techniques.

Attribute/Distribution: HU

ART 013 Sculpture I 4 Credits

Projects directed toward developing design in sculpture. Exploration of materials and their application. Emphasis on sculptural form as it relates to techniques.

Attribute/Distribution: HU

ART 015 Figure I 4 Credits

Drawing and modeling in clay from direct observation of the human figure. Fundamental principles of drawing, and two- and three-dimensional design through analysis of the human form. Inclass exercises cover basic scale, proportion, structure, drawing media and techniques, and clay modeling. Emphasis on personal expression, the human figure as vehicle for narrative, abstract or formal drawings or sculpture.

Attribute/Distribution: HU

ART 034 Plein Air Painting I 4 Credits

Students will paint outdoors during weekly excursions to local sites. An additional lecture and critique period will present the fundamentals of materials and technique. No prior experience required.

Attribute/Distribution: HU

ART 035 Painting I 4 Credits

Painting in oil beginning with color mixing and basic layering techniques. Students learn the basic mechanisms for creative expression. Emphasis on understanding the physical nature of the materials. Studio.

Prerequisites: ART 003 or ART 004 or ART 011

Attribute/Distribution: HU

ART 037 Printmaking I 4 Credits

An introduction to the fundamentals of printmaking. Students will gain an understanding of the technical processes and the visual language of different printmaking techniques. Students examine historical approaches and context while exploring contemporary modes of expression. Students are encouraged to complete a drawing studio before taking this course.

Prerequisites: ART 003

Attribute/Distribution: HU

ART 052 (FILM 052) Introduction to Video Recording and Editing 4 Credits

We will consider the interaction of image, sequence, motion, time and audio with video to create associative, abstract, documentary and narrative videos. Workshops in camera use, editing, concept development, lighting, sound and DVD authoring.

Attribute/Distribution: HU

ART 069 Special Topics in Art History 1-4 Credits

Directed projects for students in the history of art or architecture. Consent of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 073 Introductory Studio Practice 1-4 Credits

An introduction to the methods and techniques of studio art. Designed to acquaint the student with general studio practice, covering topics not covered in other specific studio course listings.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 077 The Laws of Light 3 Credits

In this course students will learn the laws of light and how to apply them to situations inside the studio and out. Course starts by exploring the physics of light through in class demonstrations. Then we will use different light sources and modifiers to experiment with a wide range of lighting scenarios. We will also focus on problem solving on set, as it is vital to understand what must be achieved in camera and what can be added in Photoshop.

Attribute/Distribution: HU

ART 107 (FILM 107) Digital Photography II 4 Credits

An opportunity to produce a unified body of work and to explore digital photography on a deeper level with an opportunity to produce a unified body of work and to explore digital photography on a deeper level with an emphasis on conceptually driven images. Experimental process encouraged.

Prerequisites: ART 007 or FILM 007

Attribute/Distribution: HU

ART 111 Drawing II 4 Credits

Projects in creative drawing designed to build on concepts and practices initiated in basic drawing and life drawing.

Prerequisites: ART 011

Attribute/Distribution: HU

ART 113 Sculpture II 4 Credits

Development of principles and techniques in Sculpture I. Modeling, casting, fabrication and carving. Emphasizes an approach to sculptural form and an exploration of the evolution of modern sculpture.

Prerequisites: ART 013

Attribute/Distribution: HU

ART 115 Figure II 4 Credits

Projects in figure modeling and drawing from direct observation of the human figure, designed to build on concepts and practices initiated in Figure I. Students may elect to concentrate in one particular medium, although the primary investigation of form will always incorporate both two and three dimensional work.

Prerequisites: ART 015

Attribute/Distribution: HU

ART 121 (WGSS 121) Women in Art 4 Credits

A history of women artists from Renaissance to present day, with emphasis on artists of the 20th and 21st century from a global perspective. We explore attitudes toward women artists and their work as well as the changing role of women in art world. There may be required visits to museums and/or artists' studios.

Attribute/Distribution: HU

ART 124 (AAS 124, GS 124) Arts of the Black World 16th-20th Centuries 4 Credits

This course covers artistic practices originating in Africa that subsequently influenced countless world cultures. The material covers artistic production and theory of arts of the enslaved populations in the AnteBellum South, early African American painting through the Harlem Renaissance, the religious arts of Haiti (Vodou) and Cuba (Santería), and contemporary production from Black Brazilian, American and European artists. Students should be prepared to attend Museums/galleries during the semester.

Attribute/Distribution: HU

ART 125 (AAS 125, GS 125) Art and Architecture of Africa from Colonial to Contemporary Times 4 Credits

This course is structured around case studies of art and architecture from early traditions up through the present. The focus is on cultural production, religious art and architecture (local as well as Christian and Muslim traditions), craftsmanship, style, materials, trade, and international exhibition of art objects in Museums. The literature draws from art historical, anthropological, and historical analyses as well as museum studies. Students should be prepared to attend Museums/galleries during the semester.

Attribute/Distribution: HU

ART 126 (ARCH 126, THTR 126) History of Interior Design and Decor 4 Credits

Survey of architectural interiors and décor examining public and domestic spaces and their contents in terms of period and style. Exploration of major art and design movements through the lens of interior spaces and objects within the context of culture and society.

Attribute/Distribution: HU

ART 131 (MUS 131) Music and the Creative Arts 3 Credits

This course examines collaborations, convergences and cross-influences between musicians, visual artists and other creatives in late 19th-early 20th century Europe and America. Students explore ways artists responded as individuals and collaborators, gain perspective on aesthetic movements including romanticism, realism, impressionism, symbolism, expressionism, futurism, dada, surrealism, and how these movements shaped the development of modernist culture. Students work with materials in the Music Department and LU Art Galleries teaching collection, studying the connections between music and visual works.

Attribute/Distribution: HU

ART 134 Plein Air Painting II 4 Credits

A sustained exploration of advanced plein air painting practices focusing on various media and approaches.

Prerequisites: ART 034

Attribute/Distribution: HU

ART 135 Painting II 4 Credits

A sustained exploration of paint media. Students concentrate on developing a body of related images using various media and approaches.

Prerequisites: ART 035

Attribute/Distribution: HU

ART 137 Printmaking II 4 Credits

Building on skills and concepts developed in Printmaking I. Individual projects in intaglio and relief and silkscreen with an emphasis on concept and refinement of image. Students concentrate on developing a body of related images using various media and approaches, furthering their research into historical approaches and context while exploring contemporary modes of expression.

Prerequisites: ART 037

Attribute/Distribution: HU

ART 169 Special Topics in Art History 1-4 Credits

Directed projects for students in the history of art or architecture. Consent of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 173 Special Topics in Studio Practice 1-4 Credits

Directed projects in art. Permission of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 175 Introduction to Museums and Museum Professions 4 Credits

Museums preserve and interpret cultural and natural heritage for the benefit of the public, but are also complex networks of professionals whose common goal is to create knowledge, share information, and connect with their communities. Students will gain an understanding of museum origins and histories, followed by an introduction to the wide range of museum professions such as curatorial, education, collections management, conservation, exhibition design, and administration. Recommended (but not required) as the introductory course for the Museum Studies minor.

Attribute/Distribution: HU

ART 176 (ANTH 176, ARCH 176, CLSS 176) Roman Archaeology 4 Credits

Cultures of the Roman Empire. Reconstructions of social, political, and economic dynamics of the imperial system from study of artifacts.

Attribute/Distribution: SS

ART 183 (GS 183, HIST 183) France from Medieval to Modern: Soc., Pol. & Art 3 Credits

France's artistic, cultural, social, artistic and political development from early kingship and dominance of the Church in the Middle Ages to the grandeur of Versailles in the Age of Absolutism; radical transformations of culture and society during the French Revolution and advent of the Modern Nation-State; to twentieth century developments including the two World Wars, imperialism and impact of post-war globalization. Offered in summer only through Lehigh Study Abroad Office as part of Lehigh in Paris program.

Attribute/Distribution: HU

ART 213 Advanced Sculpture Workshop 4 Credits

An advanced studio emphasizing sculpture within a contemporary context. Through the exploration of various concepts, material processes and rigorous critique, the student works toward developing their own unique vision and practice.

Repeat Status: Course may be repeated.

Prerequisites: ART 013 and (DES 004 or ART 004)

Attribute/Distribution: HU

ART 215 Advanced Figure Workshop 4 Credits

Further exploration of the human figure as the subject of art. More advanced students may elect to concentrate in either two or three dimensional representations in any media. The emphasis will be on personal interpretation and independent work with the instructor.

Prerequisites: ART 115

Attribute/Distribution: HU

ART 217 Advanced Studio Workshop 4 Credits

Studio Workshop is available to any student who has completed a second level discipline specific art studio such as Drawing II, Figure II, Painting II, Plein Air II, Digital Photography II, Printmaking II or Sculpture II and is designed for intermediate to advanced work in a specified medium. Course may be repeated.

Repeat Status: Course may be repeated.

Prerequisites: ART 111 or ART 107 or ART 113 or ART 115 or ART 135 or ART 152 or ART 134 or ART 137

Attribute/Distribution: HU

ART 220 Modern Art of the 20th Century 4 Credits

What was modern art, and how do we make sense of it? Modern artists revolutionized the art world of the 20th century, exploding its boundaries and conventions in ways that still challenge us today. This course explores modern art's origins and development. It offers a closer look at the leading artists, works, and debates of the period, and an introduction to the methods we use to understand and interpret them. Includes museum visits.

Attribute/Distribution: HU

ART 221 (AAS 221, GS 221) Global Contemporary Art 4 Credits

Examines art and theory since World War II through the present in the global context. Topics include the development of abstract expressionism; conceptual art and the aesthetics of 1960s-era social movements; the politics of multiculturalism; the shift from contemporary to global in the 1990s; the rise of art biennials and the role of curators; post-Marxist and decolonial approaches to the arts; critical discourses on globalization; and issues of memory, trauma, migration, diaspora, and the environment. Includes museum and gallery visits.

Attribute/Distribution: HU

ART 222 Seminar in Art History 4 Credits

In this seminar students undertake sustained and focused study of select themes and topics from the history of art. Particular attention is devoted to learning the methods, theories, and research practices that art historians use to interpret and understand art. Seminar topics change annually.

Repeat Status: Course may be repeated.

Prerequisites: ART 002 or ART 001

Attribute/Distribution: HU

ART 223 Writing Your Way Into the Arts 3 Credits

A seminar course designed to build proficiency in the writing of personal statements, application materials, and portfolio narratives for students who are considering careers, internships, and graduate studies in the visual, performing, and creative arts or related fields. Specifically useful for juniors and seniors preparing for future opportunities after graduation. Writing intensive.

Attribute/Distribution: HU

ART 227 (LAS 227) Latin American Art 4 Credits

Presents an overview of the origins and development of Latin American art since the independence period in the 19th century through the present. Understanding "Latin" American as a cultural construct that extends from Mexico to Tierra del Fuego and includes the Caribbean and Latinx cultures of the United States, the course examines key art movements and discourses across the region through the lens of historical and political events. Includes museum and gallery visits.

Attribute/Distribution: HU

ART 234 Advanced Plein Air Painting Workshop 4 Credits

An advanced studio emphasizing the development of a collective body of work as the student works toward developing their own unique vision and practice.

Repeat Status: Course may be repeated.

Prerequisites: ART 134

Attribute/Distribution: HU

ART 247 (FILM 247) Advanced Photography Workshop 4 Credits

Building on skills and concepts developed in Photography I and II, students will further their exploration of lens-based media and photo-based materials and processes, and the development of visual language in a structured environment. Through rigorous critique students develop their own voice, style and practice, building advanced digital and print bodies of work for professional review.

Prerequisite: Art 107.

Prerequisites: ART 107 or FILM 107

Attribute/Distribution: HU

ART 269 Special Topics in Art History 1-4 Credits

ART 269. Special Topics in Art History (1-4) Directed projects for advanced students in the history of art or architecture. Consent of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 273 Special Topics in Studio Practice 1-4 Credits

Individually directed projects for advanced students capable of undertaking independent creative work in studio art. Consent of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 275 Museum Collections and Exhibitions 4 Credits

Museums often consider their collections as "core" to their work, and even their reason for existence. But how do museums move beyond simply being "object warehouses" and activate their collections to create public value? This course analyzes how museums care for, manage, and present their collections to the public through a range of formats, including exhibitions. Students will engage in hands-on learning and will contribute to a project at the Lehigh University Art Galleries (LUAG).

Attribute/Distribution: HU

ART 276 Museum Education and Interpretation 4 Credits

Museum collections can remain remarkably silent unless they are activated by skilled professionals charged with facilitating connections between objects and people. In this course, students investigate the critical role of museum educators, from gallery teaching to program development. Students will also explore other interpretive areas of museum work, from exhibition texts and labels to digital media and audio guides. Student will have the opportunity to teach with objects for the public at the Lehigh University Art Galleries (LUAG).

Attribute/Distribution: HU

ART 300 Apprentice Teaching 1-4 Credits

Repeat Status: Course may be repeated.

ART 317 Departmental Capstone 4 Credits

Departmental Capstone is offered to seniors and qualified juniors and is taught collectively by the departmental faculty. Students focus on understanding and articulating their own interests and vision through research, written work, creation of new works of art, and critique. Instructor permission required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 350 Special Topics in Graphic Design and Theory Seminar 1-4 Credits

Current topics in graphic communication theory and practice. will cover preparation, production, and formulation of individual portfolio. Selected readings and discussions in professional ethics as well as legal issues in the field will be covered.

Repeat Status: Course may be repeated.

Prerequisites: ART 253 or DES 253

Attribute/Distribution: ND

ART 356 Advanced Seminar in Art History 4 Credits

In this upper level seminar, students undertake advanced study of select themes and topics from the history of art. Special emphasis is accorded to the practical application of art historical methods, theories, and research practices. Students pursue advanced research projects related to the seminar topic, which changes annually.

Prerequisites: ART 001 and ART 002 and ART 220

Attribute/Distribution: HU

ART 370 Special Topics in Museum Studies 1-4 Credits

Special topics related to museum studies. Directed projects in museum and exhibition related fields. Consent of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: HU

ART 373 Studio Art Internship 1-4 Credits

Practical infield experience in an artist's studio or art-related apprenticeship opportunity. Requires approval a semester in advance by instructor and host organization.

Attribute/Distribution: ND

ART 375 Museum Internship 1-4 Credits

Internship under professional supervision in all areas of museums and/or related organizations, regionally, nationally or abroad in well established or accredited institutions. Students must initiate contact/application. A contractual agreement or letter of acceptance is required. Consent of department required.

Repeat Status: Course may be repeated.

Attribute/Distribution: ND

ART 389 Honors Project 1-8 Credits

Repeat Status: Course may be repeated.

Design Courses**DES 025 (THTR 025) Costume Construction I 0,2 Credits**

Introduction to the art of costume construction. Costume construction materials, techniques, tools and safety. Practical experience in executing costumes for the stage.

Attribute/Distribution: HU

DES 026 (THTR 026) Costume Construction II 0,2 Credits

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.

Attribute/Distribution: HU

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 In-design.

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 072 (THTR 072) Textile Design I 4 Credits

Textile printing has brought about revolutionary changes in textile design. Textile Design utilizes digital photography, scanning, drawing and image editing software to create botanical and geometric patterns for textiles.

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: HU

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 080 Motion Graphics 4 Credits

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.

Prerequisites: ART 003

Attribute/Distribution: HU

DES 087 (THTR 087) Performance Design 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 088 (THTR 088) Digital Rendering 4 Credits

Explore the use of modern technology to develop and communicate design ideas with speed, clarity, and visual punch. Strategies geared toward increasing the young designer's confidence in presenting artistic concepts. Learn the basics of Photoshop and SketchUp and then apply those skills in creative execution of scenic, costume, and lighting renderings.

Attribute/Distribution: HU

DES 089 (THTR 089) Introduction to Fashion Design 4 Credits

An introduction to conceptual garment design. Research, devise, and develop collections of apparel and accessories. Basic elements of design, fashion theory, design processes, and rendering techniques.

Attribute/Distribution: HU

DES 111 (THTR 111) Sound Design 2 Credits

Introduction to the study of the techniques and equipment used for theatrical sound design. Elements include audio theory, script analysis, field recording and editing audio in digital audio workstations.

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: HU

DES 148 Furniture Design I 4 Credits

Design methodology, fabrication techniques, and methods of design presentation.

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: 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

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 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.