

DESIGN STUDIES (DS)

DS 101 – INTRODUCTION TO TEXTILE DESIGN

3 credits.

This survey class will be an introduction to the technical and conceptual ways of working in Textile Design. Students will participate in three five week modules: one module introducing print and dye concerns, one module introducing off-loom processes, and one module introducing structural enrichment techniques and concepts. Each module will include a series of introductory exercises leading to a final larger project. The work in each module will be supported by short readings and slide lectures highlighting historical and contemporary work. Course fee: yes.

Requisites: None

Repeatable for Credit: No

Last Taught: Spring 2024

DS 120 – DESIGN: FUNDAMENTALS I

3 credits.

Elements and principles of design. Lecture and studio experience relevant to design of the visual environment.

Requisites: None

Course Designation: Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

DS 123 – WHAT IS DESIGN?

3 credits.

Design is a key component of our daily lives and can profoundly affect all people. But how? And to what end? What does design mean and what can it do for us? Interrogate those questions by looking broadly at the place of design in everyday life, and how design intersects with society, economics, politics, the environment, and culture. Study the form, function, and philosophy of design, from what we wear on our bodies to how we move through the world. Ground discussions in close observation and analysis of previous design solutions, leading to innovative approaches to the roles, and responsibilities, of design for the future.

Requisites: None

Repeatable for Credit: No

Last Taught: Spring 2024

DS 130 – INTRODUCTION TO INTERIOR ARCHITECTURE

3 credits.

This course is an introduction to interior architecture, as a discipline and as a profession. We will examine the ways in which interior environments impact our lives, and the challenges and responsibilities faced by those who work in this field. Topics include: the history of interior design as a profession; the increased professionalization of interior design; the relation of interior design to other design disciplines (such as architecture and furniture design); the social, economic, and environmental issues that impact design; the role of emerging technologies (including digital media); design research and documentation; the elements and principles of design; the identification and observation of quality work in both commercial and residential settings; contemporary trends in taste and aesthetics; and the application of design research methods to a real-world project. This course will provide students with the foundation necessary to continue as interior architecture majors.

Requisites: None

Repeatable for Credit: No

Last Taught: Fall 2020

DS 140 – VISUAL THINKING - FORM AND SPACE

3 credits.

Manual and digital techniques for idea exploration, concept development, and design presentation using a variety of media. Projects in hand drawing techniques and professional design software. Gain heightened attention to detail; understand the relationship of two-dimensional drawings and three-dimensional objects; explore multiple design solutions visually; convey technical information, and professionally communicate design concepts. Introduce visual communication, visual thinking, visual inspiration and visual representation

Requisites: None

Repeatable for Credit: No

Last Taught: Spring 2024

DS 150 – VISUAL THINKING - PIXELS AND PENCILS

3 credits.

Explores visual media as a means of describing what exists, as a method for generating ideas for what could be, and for professionally communicating a design concept. Projects will utilize hand drawing techniques as well as professional design software. Supports the proficiency of technical skills while teaching essential methods for creative practice. Learn to move fluidly across platforms to visually explore possibilities, refine ideas, and professionally communicate design plans.

Requisites: None

Repeatable for Credit: No

Last Taught: Spring 2024

DS 153 – SEWN CONSTRUCTION I

3 credits.

Introduces the principles of sewn construction and addresses the physical and aesthetic properties of fiber and fabrics in the context of apparel design. The studios address skills necessary to plan and construct basic garments. Lectures, hands-on studios, and critiques explore the fundamentals of apparel structure and emphasize the interrelationship of fabric, design and apparel construction as well as the creative, expressive potential of materials and making.

Requisites: None

Repeatable for Credit: No

Last Taught: Fall 2023

DS 154 – SEWN CONSTRUCTION II

3 credits.

Emphasizes specialty fabrics, finishes and complex construction such as matching plaids and working with pile fabrics. Introduces pattern manipulation through basic flat patternmaking principles. Design and fabricate an original collection of garments for a target customer and will develop and construct two of the garments.

Requisites: DS 153**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 210 – FASHION ILLUSTRATION**

3 credits.

Introduction to visual communication of apparel design concepts using selected media. Focus is on drawing the fashion figure, using special techniques, with emphasis on the relationship of figure, garment, fabric, texture, and pattern.

Requisites: DS 120 and DS 154**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 215 – PATTERNMAKING FOR ACCESSORIES**

3 credits.

The principles and theories of flat pattern, drafting and draping methods for 3D accessories are explored. The principles of patternmaking are applied to headwear, handbags and footwear. Students complete projects that require designing, patterning and constructing hats, bags and footwear.

Requisites: DS 153**Repeatable for Credit:** No**Last Taught:** Spring 2020**DS 220 – DESIGN: FUNDAMENTALS II**

3 credits.

Elements and principles of three-dimensional design. Lecture and studio experience relevant to design and analysis of the spatial environment.

Requisites: DS 120 and (M E 160 or ART 112)**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 221 – PERSON AND ENVIRONMENT INTERACTIONS**

3 credits.

Effects of building and outdoor spaces on people over the life course.

Requisites: None**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2023**DS 222 – INTERIOR DESIGN I**

4 credits.

Understanding and applying the process of solving design problems of interiors. Space planning; selection and use of furnishings and materials; preparation of presentations.

Requisites: DS 220 and declared in Interior Architecture program**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 223 – INTERIOR ARCHITECTURAL DESIGN**

3 credits.

Building components, construction, interpretation of working drawing, and the process of project development.

Requisites: DS 222**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 224 – INTERIOR MATERIALS AND FINISHES**

3 credits.

The materials used in interior environments are immense, diverse and constantly changing. This course will focus on the composition of materials, their uses, and how they affect human health and well being.

Requisites: Declared in Interior Architecture program**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 225 – APPAREL DESIGN I**

3 credits.

Basic principles and elements of design as they apply to apparel. Emphasizing both process and product, students analyze fashion trends and practical problems while developing and executing original designs.

Requisites: DS 210 and 253**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS/ART 226 – TEXTILE DESIGN: OFF-LOOM CONSTRUCTION**

3 credits.

Studio design problems in two and three dimensional off-loom constructions; off-loom weaving, looping, and knotting; historical reference and contemporary application.

Requisites: DS 120 and 153**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2021**DS 227 – TEXTILE DESIGN: PRINTING AND DYEING I**

3 credits.

Surface design developed in print and resist techniques using historic and contemporary methods.

Requisites: DS 101**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 228 – TEXTILE EMBELLISHMENT I**

3 credits.

Historic and contemporary design techniques for embellishing textiles; including embroidery, beadwork and appliqué.

Requisites: None**Repeatable for Credit:** No**Last Taught:** Spring 2024

DS/ART 229 – TEXTILE DESIGN: WEAVING I

3 credits.

The relationship of hand weaving to textural surfaces and sculptural forms are examined through the study of problems including structure, pattern, composition, and additional conceptual technical possibilities. Content is explored in the development of individual direction and in relationship to the discussion of historical and contemporary textiles and other works of art. Allows students to pursue an advanced investigation of concept and technique of hand-woven cloth.

Requisites: None**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS/GEN BUS 240 – HUMAN-CENTERED DESIGN AND BUSINESS**

2 credits.

Design thinking is an iterative problem-solving process geared toward producing innovative solutions for complex and persistent problems in various fields and organizations. Its process, culture, and value system from both design and business point of views will be covered: Empathetic understanding of the end users, problem definition rooted in systems thinking, ideation with a strong emphasis on creativity, visualization and prototyping, testing rooted in a set of research methods, and finally, the importance of iteration in bringing about innovative solutions. The path from project to market will also be explored, with an understanding of how one might balance desirability, feasibility and viability.

Requisites: None**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 241 – VISUAL COMMUNICATION I**

3 credits.

The course focuses on the basic concepts, methods and materials used for communicating ideas during the design process. The course emphasizes creating visually driven experiences, with the goal of giving students the tools to integrate traditional manual approaches with up-to-the-minute digital approaches, all within the context of creative design thinking.

Requisites: Declared in Interior Architecture program**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 242 – VISUAL COMMUNICATION II**

3 credits.

Advanced topics focusing on the concepts, methods and materials used for communicating ideas during the design process. With an emphasis on creating visually driven experiences, the course integrates traditional manual approaches with up-to-the-minute digital approaches, all within the context of creative design thinking.

Requisites: DS 241**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 251 – TEXTILE SCIENCE**

3 credits.

Chemistry and physics of fibers and polymers. Principles of chemical finishes and dyeing. Qualitative fiber analysis. Structure and properties of yarns and fabrics.

Requisites: None**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2024**DS 252 – DESIGN LEADERSHIP SYMPOSIUM**

1 credit.

Provides detailed examination of design careers in the fields of textiles, fashion, and apparel design as well as interior design, industrial design, and architecture. High level industry experts from leading companies in the design industry participate as guest speakers and panel members.

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2023**DS 253 – PATTERNMAKING FOR APPAREL DESIGN**

3 credits.

The theory and principles of pattern making through flat pattern and draping techniques.

Requisites: DS 154**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS/ANTHRO/ART HIST/HISTORY/LAND ARC 264 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

Requisites: None**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2024

DS 270 – DESIGN AND FASHION EVENT PRACTICUM

2 credits.

Addresses the multi-disciplinary production of a student-centered, student-driven design and fashion event. Topics include, creative direction, strategic marketing, stage and performance, visual communication, event organization, audience engagement and event production. Students in this class will gain knowledge, skills and hands-on experience implementing a large-scale art event. Emphasizes teamwork and fosters multi-disciplinary appreciation.

Requisites: None**Repeatable for Credit:** No**Last Taught:** Spring 2020**DS 299 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for freshmen and sophomores as arranged with a faculty member.

Requisites: Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2023**DS 319 – CLOTH TO CLOTHING**

3 credits.

This studio class will explore specific dye and manipulation techniques that directly relate to integrated textile and garment design. Working with color, composition and fabric movement we will discuss simple garment shapes and how they can be used in conjunction with expressive textiles.

Requisites: DS 101 and DS 154**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 321 – PROBLEM-DEFINITION: DESIGN PROGRAMMING**

3 credits.

Programming is the problem definition phase of design process. An architectural or design program is used to guide the design process and to evaluate design solutions. A variety of design programming approaches, tools, and techniques are presented. Opportunity to develop skills in preparing a design program document that includes multiple user-needs and principles of environment-behavior interaction.

Requisites: DS 221 and sophomore standing**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2023**DS 322 – INTERIOR DESIGN II**

4 credits.

Design of residential interiors including space planning, lighting design, selections of materials and furniture, professional communication of design solutions. Emphasis on the aesthetic and functional needs of the family and residents with special needs.

Requisites: DS 222**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 327 – TEXTILE DESIGN: MANUAL/COMPUTER GENERATED IMAGERY AND PATTERN**

3 credits.

Pattern design for textiles, wallpaper and other applications (motif, layout, repeats, colorways, coordinates), using various manual and digital creation methods. Development of imagery, design concepts, collaboration and presentation.

Requisites: None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 341 – DESIGN THINKING FOR TRANSFORMATION**

3 credits.

Students will learn design thinking techniques to enhance creative analysis and problem solving. Students will directly apply what they have learned to a variety of human centered design challenges. Students will innovate, prototype, and test designs that address real-world problems with real-world constraints and the limitations of technology. Projects range from ways to improve everyday situations to community issues.

Requisites: None**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 355 – HISTORY OF FASHION, 1400-PRESENT**

3 credits.

Changing form and meaning of costume in the West from Renaissance to present. Dress considered in relation to social/cultural milieu and as an art form. Includes treatment of the body; ethnic/class variations; couture; "antifashion".

Requisites: Junior standing**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2023**DS 361 – DESIGN-RELATED INTERNATIONAL EXPERIENCE**

1-6 credits.

In-depth study of art/design concepts and/or practice in a specific culture. Each class looks at cultural issues through a particularized design-related lens. Students live and work in the country they are studying.

Requisites: DS 120 or ART 104**Repeatable for Credit:** Yes, unlimited number of completions**DS/ART HIST 363 – AMERICAN DECORATIVE ARTS AND INTERIORS: 1620-1840**

3-4 credits.

Interdisciplinary study of the design, production, and consumption of household objects and their American domestic settings, 17th through the early 19th centuries.

Requisites: Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2016

DS 401 – FIT ACCESSORIES DESIGN

1-6 credits.

Provides equivalency for accessory design courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 402 – FIT ADVERTISING AND MARKETING COMMUNICATIONS**

1-6 credits.

Provides equivalency for advertising and marketing communications courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 403 – FIT COMMUNICATION DESIGN FOUNDATION**

1-6 credits.

Provides equivalency for communication design foundation courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 404 – FIT FASHION BUSINESS MANAGEMENT**

1-6 credits.

Provides equivalency for fashion business management courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 405 – FIT FASHION DESIGN**

1-6 credits.

Provides equivalency for fashion design courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 406 – FIT TEXTILE DESIGN AND SCIENCE**

1-6 credits.

Provides equivalency for textile design and science courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 407 – FIT RELATED AREA**

1-6 credits.

Provides equivalency for related area courses completed at the Fashion Institute of Technology (FIT) by Textiles Fashion Design majors as part of the FIT visiting student program. This is not a course that can be enrolled in at UW-Madison

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**DS 421 – HISTORY OF ARCHITECTURE AND INTERIORS I: ANTIQUITY THROUGH 18TH CENTURY**

3 credits.

This course surveys the history of architecture, interiors, furnishings and decorative arts from antiquity to the mid-19th century. Lectures and readings introduce major design cultures and movements, emphasizing the role of social, economic, political, technological, and aesthetic factors in the shaping design.

Requisites: DS 120 or (ART HIST 201 and ART HIST 202)**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2023**DS 422 – HISTORY OF ARCHITECTURE & INTERIORS II: 19TH AND 20TH CENTURIES**

3 credits.

This course surveys the history of architecture, interiors, furnishings and decorative arts from the mid-19th to the mid-20th century. Lectures and readings introduce major design cultures and movements, emphasizing the role of social, economic, political, technological, and aesthetic factors in the shaping design.

Requisites: DS 421 or (ART HIST 201 and 202)**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2024**DS 427 – TEXTILE DESIGN: PRINTING AND DYEING II**

3 credits.

Focuses on silkscreen printing. Discharge, burnout, and chemical resist processes, specific to screen printing, will be introduced. Students will be asked to develop conceptual ideas and explore alternative ways of producing images.

Requisites: DS 227 and 327**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2022

DS 428 – TEXTILE EMBELLISHMENT II

3 credits.

Opportunity to continue creative research introduced in Textile Embellishment I, with a special emphasis on student driven design. Advance skill and vision using traditional and experimental ways of altering and enriching the surface of pliable materials using techniques such as stitching, embroidery, beading, and fabric collage. Identify and pursue individual conceptual concerns. Readings, formal and informal presentations, group and individual critiques will support the work. Presentation of research will include formal power point talks and physical presentation of the completed textile works.

Requisites: DS 228**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 429 – TEXTILE DESIGN: WEAVING II**

3 credits.

Analysis of complex or compound hand weave techniques. Individual development of solutions to problems of structural textile design.

Requisites: DS/ART 229**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 430 – HISTORY OF TEXTILES**

3 credits.

Designs and meanings and interrelationships of textiles in selected cultures and time periods.

Requisites: None**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2023**DS 451 – COLOR THEORY AND TECHNOLOGY**

3 credits.

Color technology and its impact on a variety of scientific and design oriented fields are discussed. Emphasis is placed on the spectrophotometric measurement of color and the use of computer technology to create, analyze and match color.

Requisites: Satisfied Quantitative Reasoning (QR) A requirement**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Spring 2024**DS 501 – SPECIAL TOPICS**

1-3 credits.

Specialized subject matter of current interest to undergraduate students.

Requisite varies by topic

Requisites: None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2024**DS/COMP SCI/ISYE 518 – WEARABLE TECHNOLOGY**

3 credits.

Gives students hands-on experience in building wearable computing platforms. Designed for students who have a background in textiles and apparel design, computer science, engineering or media arts. By the completion of the course students will have fundamental knowledge of electronic circuitry, programming, and "maker skills".

Requisites: Sophomore standing**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2022**DS 519 – COLLECTION DEVELOPMENT**

3 credits.

An opportunity for advanced students in Design and Art to demonstrate accumulated learning through a semester long project in the development of a collection of marketable artisan works within their own media.

Combines classroom-based learning explorations with real world technical and economic considerations to successfully navigate a balance between expansive thinking and application in real world situations.

Requisites: Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 521 – ENVIRONMENTS OF CRISIS & DESIGN**

3 credits.

Explores emerging built environments designed to support people undergoing crises such as disasters, conflicts, forced migration. Focuses on psycho-social components to employ human-centered design lens to environments of crisis. Examines theoretical frameworks on stress, trauma-informed practices, supportive environments, and restoration. Investigates physical spaces in crisis environments and their health and wellbeing impacts. Evaluates design, policy interventions from lenses of equity and justice, human rights, and dignity.

Requisites: Junior standing**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Spring 2024

DS 527 – GLOBAL ARTISANS

3 credits.

In the field of design, there has been an increased emphasis on ethical practices in production and consumption. Utilizing "design thinking", students in this project-based survey course will be exposed to important issues surrounding small-scale artisan production and develop valuable hands-on skills working with artisan partners through design, quality control, branding and story-telling. Topics may include: fair trade development, product design, cultural implications, as well as pricing, marketing, and sales.

Requisites: Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2023**DS 528 – EXPERIMENTAL TEXTILE DESIGN**

2-3 credits.

Experimental design and decorative principles; elements and techniques for the animation of textile surfaces.

Requisites: None**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 529 – BUILDING A SUSTAINABLE CREATIVE PRACTICE**

3 credits.

Artists and designers' material choices influence the content, social meaning, and physical structure of their work, as well as leaving an environmental foot print and affecting social exchange. Beginning with the consideration of reuse and recycling, students in this studio class will critically engage ideas of sustainability in art making and design practice with an emphasis on fiber related topics including textile and apparel design, soft sculpture, papermaking and book arts, as well as exhibition, installation, and/or the distribution of finished works.

Requisites: Junior standing**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 549 – ENVIRONMENTAL CONTROL SYSTEMS: LIGHTING, ACOUSTICS, AND THERMAL COMFORT IN BUILDINGS**

3 credits.

The ways in which we design, construct, and operate has significant impacts on the building occupants and the environment. Architects, designers, and building engineers can work closely together to reduce depletion of critical resources, prevent environmental degradation, and create built environments that are livable, comfortable, safe, and productive. Offers the foundational knowledge on which such practice can be built on. Through a series of lectures, field measurements, and building simulations, understand how lighting, acoustics, and thermal properties behave in buildings and influence the building occupants. The proper application of building design as well as methods for designing and evaluating these features are discussed.

Requisites: Satisfied Quantitative Reasoning (QR) A requirement and declared in Interior Architecture; or graduate/professional standing**Course Designation:** Gen Ed - Quantitative Reasoning Part B
Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 561 – TEXTILES: SPECIFICATIONS AND END USE ANALYSIS**

3 credits.

Physical textile testings are studied. Emphasis is placed on the evaluation of textiles intended for use as apparel and for interiors. Writing specifications, and minimum performance standards are also discussed.

Requisites: DS 224 or DS 251**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2022**DS 570 – DESIGN AND FASHION EVENT MANAGEMENT**

3 credits.

Production of a student-driven, student-centered design and fashion event presents the framework for advanced experience and study for upper-level students. This course provides the opportunity to study and to actively engage in high-level interdisciplinary exploration and collaboration. Transferring discipline-specific skills to a new context, students will learn methods for testing, review, and revision to develop problem-solving skills and communication. The course encourages teamwork as well as crossdisciplinary understanding and appreciation.

Requisites: DS 270**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2020**DS/COMP SCI 579 – VIRTUAL REALITY**

3 credits.

Introduces students to the field of virtual reality and focuses on creating immersive, interactive virtual experiences. Survey topics include historical perspectives on virtual reality technology, computer graphics and 3D modeling, human perception and psychology, human computer interaction and user interface design. This course is designed for students with backgrounds in Computer Science, Engineering, Art, Architecture and Design. Students will work in interdisciplinary teams on projects, culminating in a final event that will be showcased to the public. While not an official usite, the class will be technologically motivated; therefore students should be comfortable learning new software. The class will utilize publicly available game design software which provides tools and services for the creation of interactive content. While not necessary, students may find it helpful to have taken classes in programming and computer graphics (such as COMP SCI 559: Computer Graphics) or in 3D modeling (such as ART 429: 3D Digital Studio I or DS 242: Visual Communication II).

Requisites: Sophomore standing**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2024**DS 601 – INTERNSHIP**

1-8 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in design studies related fields. Course intended for juniors and seniors in Design Studies.

Requisites: Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2023

DS 620 – VISUAL THINKING FOR PROBLEM SOLVING

3 credits.

Visual thinking's theoretical foundations are paired with visual thinking skills, tools, and applications. The format explores the way these can be combined while thinking critically and engaging with problem solving methodologies such as design thinking. Theoretical foundations include the elements and principles of design, the processes of visual narrative, and perceptual theories. Skills and applications include manual sketching, 3D visualization and modeling, data visualization, image manipulation, graphic design, video presentation, multimedia, design for 3D printing and fabrication, diagramming, digital rendering, and graphic design.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 622 – INTERIOR DESIGN III**

4 credits.

Design of commercial interiors with emphasis on design process, programming, space planning, selection of interior materials, furniture, and lighting. Field trip required.

Requisites: DS 322**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 623 – INTERIOR DESIGN IV**

4 credits.

Design of commercial interiors with emphasis on acoustics, codes, costs, specifications, details, and visual presentation. Field trip required.

Requisites: DS 622**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 624 – INTERIOR ARCHITECTURE PROFESSIONAL PRACTICE**

3 credits.

Prepares Interior Architecture majors to launch their careers in design. Become acquainted with aspects of the interior design profession: how an office works, the project delivery process in interior design practice, and post-graduation material preparation.

Requisites: DS 322**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 626 – INTERIOR DESIGN V**

4 credits.

Provides the opportunity to explore and refine interior design skills while responding to current events and the ever changing world around us. Follow the design process from research, programming, conceptual and schematic design, full design development and presentation. All aspects of designing an interiors project in detail will be addressed, including space planning, interior architectural articulation, furniture selection, finish selection, detailing of custom elements, rendering, website development for client presentation, and more.

Requisites: DS 623**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS/LAND ARC 639 – CULTURE AND BUILT ENVIRONMENT**

3 credits.

The course explores cultural values embedded in buildings through understanding physical configurations, social organizations, practiced/symbolic/representational aspects of buildings. The course covers a wide range of cultures and the built environments they produce including examples from the Americas, the Middle East, as well as those of the many ethnic minorities in the U.S.

Requisites: Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2022**DS 641 – ADVANCED DESIGN THINKING FOR TRANSFORMATION**

3 credits.

An empathetic, human-centered perspective that uses Design Thinking and draws from historical precedence and current research from a variety of fields to help solve complex and persistent problems such as student mental health awareness and lack of clean drinking water. Utilizes advanced design thinking techniques to enhance creative analysis and problem solving to address real-world problems with real-world constraints and the limitations of technology. Projects range from ways to improve everyday situations to community issues.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2023**DS 642 – TASTE**

3 credits.

Exploration of the idea of taste - both "good" and "bad", in "popular" and "high" culture. Cross-cultural readings from theoretical and historical perspectives, relating to architecture, landscape, public space, art, and clothing.

Requisites: Graduate/professional standing**Repeatable for Credit:** No**Last Taught:** Fall 2023

DS 679 – RESEARCH METHODS IN DESIGN

3 credits.

Future designers need to have critical research knowledge and skillsets that include mastery of various research methods, related issues, and practical experiences in understanding and interpreting quantitative or qualitative research. Design research allows designers to be involved directly with objects, products, and environments they design through human-centered inquiry. The major concepts addressed include design research and its influence on the practice of design, generating research questions, critical literature review, research evaluation, data management and analysis, and various research strategies, all geared toward application to various design practices.

Requisites: Senior standing**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Spring 2024**DS 680 – SENIOR HONORS THESIS**

2-4 credits.

Individual study for seniors completing theses for Human Ecology honors degrees as arranged with a faculty member.

Requisites: Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**DS 690 – SENIOR THESIS**

2-4 credits.

Individual study for seniors completing theses as arranged with a faculty member.

Requisites: Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2024**DS 699 – INDEPENDENT STUDY**

1-6 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

Requisites: Consent of instructor**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions**Last Taught:** Spring 2024**DS/ANTHRO/ART HIST/HISTORY/LAND ARC 764 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2024**DS 920 – SEMINAR IN DESIGN STUDIES**

1-3 credits.

This course is intended as forum for Design Studies graduate students to discuss issues in contemporary art and design.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2023**DS/F&W ECOL/URB R PL 955 – PRACTICAL RESEARCH DESIGN AND METHODS OF EMPIRICAL INQUIRY**

3 credits.

Provides a practical introduction to basic concepts of research question formulation, research designs and alternative methods of inquiry, implications for internal validity of the research and generalizability of the findings, operational definitions and measurement validity, reliability, utility and precision.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2022**DS 990 – RESEARCH AND THESIS**

1-12 credits.

Independent research and writing for graduate students under the supervision of a faculty member.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2024

DS 999 – INDEPENDENT STUDY

1-3 credits.

Directed study projects for graduate students as arranged with a faculty member.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2024