

Guide to Minors—FAQ

What is a minor?

A minor is a secondary area of interest that often complements a student's major. Although not a degree requirement for CADE, many students choose to pair their major discipline with another related design field. A minor allows students to group some related electives in a meaningful way, providing a set of courses that provides supplemental study in a particular subject area. Options for minors are determined by the academic program and consist of a minimum of **twelve credits in the subject area**. Guidelines for available minors are below:

- A student may not combine a major and minor in the same or similar functional area (e.g., an Interior Design major and an Interior Design minor).
- A student may not use the same course for credit in both the major and minor areas. In other words, only general elective credits can be applied to the minor.
- Most minors consist of at least one required course, completed by a selection of courses from which the student may choose. Any substitute elective course from within the minor discipline must be approved.

Why choose to study a minor?

In addition to integrating and unifying subjects covered in general electives, minors enable students to pursue secondary areas of interest and to develop a knowledge base and skill sets that complement their major area.

By layering a secondary area onto a primary field of study, minors indicate versatility and flexibility to a prospective employer, increasing a student's marketability and expanding prospects for internships and future employment.

What is a "custom minor"?

With a "custom minor" students may compose their program of study upon approval of their Academic Advisor and the appropriate Program Director/s. Custom minors afford students the **opportunity for intra-disciplinary and/or interdisciplinary exploration**. Custom minors may combine courses from several CADE disciplines, for example, Interior Design and Historic Preservation, Landscape Architecture and Sustainable Design, etc.

A custom minor is a **thematic or discipline-specific** grouping of four courses from any of the Colleges and is appropriate only for courses that are currently delivered at Thomas Jefferson University, i.e. existing faculty & facilities within the University must support the topic of the custom minor. A proposal for a special minor, including a written rationale, must be approved. At least 6 credits toward the custom minor must be completed in residence, and the courses utilized for the custom minor, whether in residence or transfer, must currently exist in the University catalog.

A maximum of 3 credits may be delivered as Independent Study or Course-by-Appointment. The student must have approval to design a custom minor. The “Declaring a Custom Minor” form is available at the **Office of the Registrar website** <https://www.jefferson.edu/registrar/forms.html>

When should I declare a minor?

A student may choose a minor with the assistance of an academic advisor upon completion of 30 semester hours, which for most students is at the beginning of their 2nd year. Undergraduate students who have earned a minimum of 75 credits and whose cumulative grade point averages are 3.00 or higher may enroll in a minor that consists of graduate courses.

To formally declare a minor requires filling out the “**CADE-Declaring Minor**” form, available at the **Office of the Registrar website** <https://www.jefferson.edu/registrar/forms.html> and in conjunction with the student’s academic advisor. ***The form must be signed by the student, the academic advisor, and the program director of the student’s minor area. A list of proposed courses must also be included.*** Once officially “declared,” the minor will be listed on the student’s transcript directly under the name of the student’s major.

Students may choose to declare a minor at any point after the required 30 completed semester hours. ***However, it is advisable to map out a plan for your courses in advance, preferably before your last year, to ensure that you can schedule the courses needed to complete the minor.*** Some courses are only offered once a year during specific semesters. Moreover, certain courses in the minor may have prerequisite courses that need to be completed. Consult your academic advisor.

Suggested CADE Minors

Architectural History/Theory

12 credits

This minor offers students the opportunity to study art/architectural history and theory beyond the introductory level. The courses listed provide in-depth knowledge and analysis of historical periods and theoretical issues relative to the meaning and practice of architecture and related disciplines.

<u>Choose four of the following:</u>	<u>Course Title</u>	<u>Pre-requisites</u>
ARST-422	Issues in Contemporary Architecture	AHST-305
ARST-221	Issues in Contemporary Preservation	AHST-206
ARCH-320	Ecology and Making	AHST-305
ARST-341	American Architecture	AHST-206
ARST-410	Vernacular Architecture	AHST-206
ARST-302	Uncovering the Past: Tools, Methods, Strategies	AHST-206
ARST-403	Restoration & Rehabilitation of Modernist Bldgs.	AHST-305
ARST-425	Meaning in Architectural Ornament	AHST-206
ARST-434	Water and Architecture	AHST-206
ARST-428	Restoration/Rehabilitation Interiors	AHST-206
POTO-307	History of Photography	WRIT-2xx
ARST-471	Design Theory/Special Topics	AHST-306

Construction Management

12 credits

This minor introduces construction management concepts and principles as applied to contemporary practice and investigates the intersecting roles of construction managers, architects, clients, and general contractors. Topics encompass planning, programming, and documentation from pre-construction to project close-out; legal aspects relative to environmental protection, public and worker safety; contract

documents; insurance and bonds; labor relations and inspection; project control; estimating and scheduling; total quality and ethics; and the development of analytical and communication skills.

<u>Required Courses</u>	<u>Course Title</u>	<u>Pre-requisites</u>
1. CMGT-102	Intro to the Construction Industry (Fall only)	None
OR CMGT 607	Intro to Cons. Project Management (Fall only)	None—Email form
2. CMGT-104	Intro to Estimating and Scheduling (Spring only)	CMGT-102

Any two of the following:

Fall only: CMGT-202, CMGT-410, CMGT-618

Spring only: CMGT-200, CMGT 206, CMGT-401, CMGT-601, CMGT-614

Fall or Spring: CMGT-403

Suggested Order of Courses:

Option 1 (Start in Fall - SUGGESTED)	Option 2 (Start in Spring)
Fall – CMGT-102 or CMGT 607 (Fall only)	Advisor fills and submits a prereq waiver form for CMGT 104 (CMGT-102 to be taken next semester). Spring – CMGT-104 (Spring only)
Spring – CMGT-104 (Spring only)	Fall – CMGT-102 or CMGT 607 (Fall only) Fall - Any one of the courses from the list above
Fall - Any one of the courses from the list above.	Spring – Any one of the courses from the list above.
Spring - Any one of the courses from the list above.	

****Note:**

—The required courses (CMGT-102, CMGT 607, and CMGT-104) cannot be substituted with any other courses.

—The ideal time to declare a CM Minor/start taking CM courses for ARCH department students is the Fall semester of their 3rd year to avoid potential scheduling conflicts. If you have scheduling conflicts, use Option 2 above and contact your Advisor to map out a new course plan.

—All forms are to be emailed to the CM Program Coordinator.

Minor for Accelerated Dual Degree; Courses students would take as undergraduates:

CMGT-600 Construction Estimating & Scheduling (3 cr.)

CMGT-603 Construction Law: Roles & Responsibilities (3 cr.) [Arch Studies students should take CMGT 602]

CMGT-604 Project Finance & Cost Control (3 cr.)

CMGT-606 Construction Risk Management (3 cr.)

Historic Preservation

12 credits

This minor provides a foundation in the field of historic preservation. Courses cover contemporary practice and fieldwork, sustainability issues, building conservation, methods of archival research, standards for documentation, American architectural traditions, as well as design considerations in the adaptive reuse of historic structures.

<u>Required Course</u>	<u>Course Title</u>	<u>Prerequisites</u>
ARST-221/MHP-621	Issues in Contemporary Preservation (Fall)	AHST-206
Choose three of the following:		
ARST-302/MHP-602	Uncovering the Past: Tools, Methods & Strategies (Fall)	AHST-206
ARST-324/MHP-624	Architectural Forensics & Documentation (Fall)	AHST-206
ARST-266/MHP-626	Building Conservation & Assessment (Fall)	ARDS-102
ARST-403/MHP-603	Restoration & Rehabilitation of Modernist Bldgs.(Spring)	AHST-206
ARST-341/ARCH-672	American Architecture (Spring)	AHST-206
ARST-410/ARCH-671	Vernacular Architecture (Spring)	AHST-206
ARST-412/MHP-622	Adaptive Reuse & Urban Revitalization (Fall)	INTD-202/ARCH-213
ARST-404/MHP-604	Conservation Historic Building Interiors (Spring)	ARDS-102
POTO-436/MHP-606	Architectural Documentation: Photography (Spring)	None

****Note**—Historic Preservation courses are cross-leveled, offering undergraduate and graduate options. Students interested in the dual degree/MS Historic Preservation should consult the Program Director to map appropriate coursework.

Photography 12 credits

This minor provides a foundation in photographic techniques, processes, history and theory. Coursework focuses upon photography: as a tool for the documentation, research and preservation of architecture, as part of visual culture in its application to commercial, fashion, advertising and product design, and as a medium for self-expression.

<u>Required Courses</u>	<u>Course Title</u>	<u>Prerequisites</u>
POTO-101	Intro to Photography: Black and White	None
POTO-102	Intro to Photography: Digital	None
POTO-307	History of Photography	WRIT201/202

Choose one of the following: POTO-436, POTO-201, POTO-303

Real Estate Development 12 credits

This minor introduces the economic, social, and physical issues inherent in environmentally and fiscally sustainable real estate and land-use development. Through real-world case studies presented by leading developers, coursework encompasses market analysis and valuation, finance and investment, legal issues of ownership and land use, public-private partnerships, urban regeneration and adaptive reuse, construction science and management, in addition to multiple design and development paradigms and their long-term local, national, and global impacts. Sustainable strategies inform a curriculum sensitive both to the ethical dimension of development and the parameters of a capital-driven market.

<u>Required Course</u>	<u>Course Title</u>	<u>Prerequisites</u>
MRE-601	Sustainable Real Estate Development Process	None

Choose three of the following:

MRE-604	Case Study: Mixed-Use, Commercial, & Health Care Facilities.	MRE-601
MRE-620	Urban Revitalization, Historic Neighborhoods & Adaptive Reuse	MRE-601
MRE-638	Sustainable Affordable Housing	MRE-601
MRE-630	Market Analysis and Valuation	MRE-601
MRE-615	Real Estate Finance and Investment	MRE-601
MRE-635	Public-Private Partnerships	MRE-601
MRE-625	Real Estate Law and Ethical Practices	MRE-601

Sustainable Design 12 credits

The minor introduces students to the theory of sustainability and how it is applied in the built environment. Students will be grounded in the methodologies of sustainable design, learn to measure, predict and design for thermal comfort, adaptable opportunities and resilience across scales. Students will also learn how to design and calculate sustainable systems, and learn to evaluate, compare, perform life cycle analyses of materials. Pick four of the following courses:

<u>Required Courses</u>	<u>Course Title</u>	<u>Prerequisites</u>
SDN 601* (Fall, Spring, Summer)	Sustainable Design Methodologies	None
SDN 602 (Fall on-line only)	Resilient & Adaptive Design	None
SDN 603* (Spring on-line only)	Sustainable Systems	None
SDN 604* (Fall or Spring)	Circular Econ. & Life Cycle Assesmnt	None
SDN 609* (Fall, Spring, Summer) BIM for Sustainable Design		None

*Available as an asynchronous course. The schedule for the course is not decided until the beginning of the semester. This means that students can take this course even if there is a conflict and watch the recorded lectures each week.

GIS (Geographic Information Systems) 12 credits

This minor in GIS (Geographic Information Systems) consists of four courses in geospatial technology and provides students with the opportunity to apply geospatial technology to various disciplines. The courses span introduction to advanced concepts in geospatial technology and include desktop as well as internet technologies.

<u>Required Courses</u>	<u>Course Title</u>	<u>Prerequisites</u>
LARC-310/GEOD-610	Intro to GIS	None
MUD 604	Emerging Design and Technology for Future Cities	
GEOD-617	Adv GIS: Advanced GIS for Urban Planning and Development	
GEOD-625	Internet GIS Tech	None

Urban Design 12 credits

This minor provides an introduction to fundamental concepts and methods of urban design, and explores sustainable and smart cities. The required and recommended courses offer students an in-depth knowledge and advanced tools to address climate change, public health, pandemics and other challenges by incorporating urban analytics, environmental modeling, computational design, geospatial technology, and smart technologies into urban environments. 1(2 credits)

<u>Required Course</u>	<u>Course Title</u>	<u>Prerequisites</u>
MUD-600 (Fall only)	Modeling Urban Environmental Performance	None
310/GEOD-610	Intro to GIS	None

Choose two of the following:

MUD-604 (Spring only)	Emerging Design and Technology for Future Cities	None
LARC-515/MUD-615/GEOD-615	Adv GIS: Urban Spatial Analytics I	LARC-310/GEOD-610
MUD-617/GEOD-617	Adv GIS: Urban Spatial Analytics II	LARC-310/GEOD-610
MHP-622/ARST-412	Adaptive Reuse & Urban Revitalization	ARCH-214 or INTD-202 or LARC-300
MUD-602	History and Theory of Urban Design	None
GEOD-625	Internet GIS Tech	None
SDN-601	Sustainable Design Methodologies	None
MRE-601	Sustainable Real Estate Development Process	None
EOD-604/LARC-412	Urban Hydrology	None

Computational Design 12-13 credits

This minor introduces students to the concepts and applications of computation in architectural design, and explores computational design thinking through novel techniques, tools, processes and theories, including parametric design, geometric reasoning, algorithmic modeling, performance-based modeling, physical computing, data visualization, and digital fabrication. This minor focuses on understanding the implications of computation on design and creative processes.

Select four courses from the choices below:

ARCH-324	Experimental Modeling (*Theory Seminar; prereq ARCHDSN-208) (3 credits)
ANIM-307	3D Modeling (prereq: ANIM-202) (3 credits)
ANIM-308N	3D Animation (prereq: Anim-307 with min grade C) (4 credits)

MUD-600	Modeling Urban Environmental Performance (3 credits)
ENGR-104	Introduction to Computing (3 credits)

Interior Design

12-16 credits

The Interior Design Minor consists of four courses unique to the interior design curriculum and totaling 12-16 credits. The selection of courses offered for the minor will expand the knowledge of architecture and architectural studies students to better understand the special requirements of interior design.

For **B.S. in Architectural Studies** students who wish to minor in interior design the required courses include at least one interior design studio and three other interior design courses (= 4 courses). Students will complete 13-16 unique credits for the minor from the following list:

<u>Required Courses</u>	<u>Course Title</u>	<u>Prerequisites</u>
1) Select one from the list below:		
INTD-201	Design 3 for Interior Design (4 cr.)	INTD-102 or ARCH-213 & permission (option for Architectural Studies student only)
INTD-202	Design 4 for Interior Design (4-cr.)	INTD-201 or ARCH-213 & permission
INTD-301	Design 5 for Interior Design (6 cr.)	INTD-202 or ARCH-214 & permission

Note: In special cases, a graduate studio in interior architecture may be substituted for an UG studio with permission from the department chair.

2) Select three from the list below that have not already been completed:		
INTD-201	Design 3 for Interior Design (4 cr.)	INTD-102 or ARCH-213 & permission
INTD-202	Design 4 for Interior Design (4 cr.)	INTD-201 or ARCH-213 & permission
INTD-301	Design 5 for Interior Design (6 cr.)	INTD-202 or ARCH-214 & permission\
INTD-206	Interior Building Technology (3 cr.)	ARCHDSN-210 & INTD-201 or ARCH-213 & permission
INTD-310 **	Textiles & Materials for Interior Design (3 cr.)	ARCHDSN-210 & INTD-201 or ARCH-213 & permission
INTD-325/ DSGN-371	Furniture Design (3 cr.)	INTD-301 or ARCH-311 & permission
IARC-603	History II for Interior Arch. (3 cr.)	AHST-206 & permission
IARC-608	Light and Color (3 cr.)	ARCH-212 & permission

For **Bachelor of Architecture** students who wish to minor in interior design at least one interior design studio must be taken. If the BArch student takes an interior design studio* for the ARCH-401 Design 7 option of the BArch degree requirement then the four courses (12-16 cr.) taken for the interior design minor do not have to include an interior design studio. However, if the BArch student has not completed an interior design studio for the ARCH-401 Design 7 requirement then the student is required to take an interior design studio* as one of the four courses that count toward the minor. Select **four** from the list below that have not already been taken to count as ARCH-401 Design 7 for the BArch degree requirement (must complete a min. of 12 unique credits for the minor):

<u>Required Courses</u>	<u>Course title</u>	<u>Prerequisites</u>
Interior Design Studios:		
INTD-201	Design 3 for Interior Design (4 cr.)	INTD-102 or ARCH-213/permission
INTD-202	Design 4 for Interior Design (4 cr.)	INTD-201 or ARCH-213/permission
INTD-301	Design 5 for Interior Design (6 cr.)	INTD-202 or ARCH-214/permission

Note: In special cases, a graduate studio in interior architecture may be substituted for an UG studio with permission from the department chair.

Other Interior Design Courses:

INTD-206	Interior Building Technology (3 cr.)	ARCHDSN-210 & INTD-201 or ARCH-213 & permission
INTD-310 **	Textiles & Material for ID (3 cr.)	ARCHDSN-210 & INTD-201 or ARCH-213 & permission
INTD-325/ DSGN-371	Furniture Design (3 cr.)	INTD-301 or ARCH-311/permission
IARC-603	History II for Interior Arch. (3 cr)	AHST-206 & permission
IARC-608	Light and Color (3 cr.)	ARCH-212 & permission

Building Technology (Architectural Studies students only) 12 credits

This minor provides an intermediate understanding of the theory and principles of systems and technology as applied to buildings. Topics encompass structural systems, loading, and materials; dynamic building systems; and the relationships of structures, environmental systems and building enclosure within a variety of building typologies. Depending on selected fourth course, students will focus on building structures or enclosures, in a theoretical or experimental mode, or on buildings as system components in their environment.

<u>Required Courses</u>	<u>Course Title</u>	<u>Pre-requisites</u>
ARCH-304	Structures 2	ARCH-303
ARCH-313	Technology 3: Dynamic Enviro. Systems	ARCH-212
ARCH-314	Technology 4: Advanced Building Analysis	ARCH-313

One of the following:

- ARCH-413: Experimental Structures ARCH-304 or AENGR-305
- ARCH-414: Experimental Materials ARCH-304 or AENGR-301
- ARCH-419: High Performance Bldg Envelope ARCH-304 and ARCH-313
- ARCH-426: Design/Build ARCH-212 or LARC-207
- LARC-310: GIS for Landscape Arch LARC-201 or ECBIO-301

Landscape Architecture

These two 12 credit minors, **Landscape Design** and **Landscape Planning**, introduce the student to the field of landscape architecture. For the **Landscape Design** minor, the required courses cover the various areas—history/theory, Technology, horticulture and design—that constitute an understanding of the discipline relative to design.

Choose one of the following technology and /or horticulture courses (3 credits):

LARC-212	Local Flora	Spring Semester
LARCH-305	Plant Community Ecology	Fall Semester
SCI-110	Landscape Ecology	Fall and Spring Semester
LARC- 312	Sustainable Planting	Spring Semester
LARC-310	GIS	Fall and Spring Semester
LARC-409	Materials and Methods	Spring Semester
LARC-412	Urban Hydrology	Fall Semester

Choose one history/theory courses (3 credits): LARC-206 History I, LARC-307-History II

Choose one of the following LARC studios (6 credits): LARC-300, LARC-304, LARC-400, LARC-401

For the **Landscape Planning** minor, the required courses cover the various areas—technology and history—that are needed for an understanding of the discipline relative to planning

Choose two or three of the following technology and /or horticulture courses (3 credits each):

LARC-212	Local Flora	Spring Semester
LARCH-305	Plant Community Ecology	Fall Semester
SCI-110	Landscape Ecology	Fall and Spring Semester
LARC- 312	Sustainable Planting	Spring Semester
LARC-310	GIS	Fall and Spring Semester
LARC-409	Materials and Methods	Spring Semester
LARC-412	Urban Hydrology	Fall Semester

Choose one or two history/theory courses (3 credits): LARC-206 History I, LARC-307-History II,

Animation & Digital Media**14 credits**

The Animation & Digital Media minor consists of 14 credits and offers students an opportunity to supplement their major with courses focused on creating animated content using cutting edge industry standard digital tools. The Animation & Digital Media minor will introduce students to both 2D and 3D animation mediums, culminating in the option to round out your animation skills with Digital Audio Production or take your motion design skills even further with Motion Graphics II.

Required Courses	Course Title	Credits	Pre-Requisite(s)
ANIM-307	3D Modeling	3	
ANIM-308N	3D Animation	4	ANIM-307
ANIM-301N	Motion Graphics I	4	

Select Any 1 Course	Course Title	Credits	Pre-Requisite(s)
ANIM-310	Digital Audio Production	3	
ANIM-312	Motion Graphics II	3	ANIM-301N

Engineering**12 credits**

This is a minor for those wishing to learn more about the engineering field, which consists of applying principles of math and science to solving problems by designing, building, and overseeing products and systems. Students who complete this minor will gain experience in engineering problem solving, materials, and knowledge of various aspects of engineering fields. Students in Mechanical Engineering or Engineering majors are not eligible to complete this minor.

Choose 4 Courses	Course Title	Credits	Pre-Requisite(s)
ENGR 102	Engineering Drawing	3	MATH 102, 110, or 111
ENGR 104	Introduction to Computing	3	
ENGR 210	Materials Science	3	MATH 110 or 111 and CHEM 103/103L
ENGR XXX	Statics & Mechanics	3	MATH 112 and PHYC 201/201L
ENGR XXX	Applied Programming	3	ENGR 104
ENGR 308	Integrated Engineering Product Development	3	MATH 112, ENGR 102, ENGR 104
MENG 407	Thermodynamics	3	PHYC 201/201L and MATH 112

Graphic Design (for Animation & Digital Media students)**12 credits**

The Graphic Design minor introduces students to conceptual, aesthetic, and technological skills associated with the discipline. Courses focus on design principles and thinking as related to visual communication, typography, image making, branding, information gathering and organization, research and concept development, with consideration for audience and context.

Minor Pre-Requisite	Course Title	Credits	Pre-Requisite(s)
GRPH-102	Intro to Graphic Design	3	
Required Courses	Course Title	Credits	Pre-Requisite(s)
GRPH-202	Design IV for Graphic Design Comm	3	GRPH-201
GRPH-301	Design V for Graphic Design Comm	3	GRPH-202
Select Any 2 Courses	Course Title	Credits	Pre-Requisite(s)
GRPH-208	History of Graphic Design	3	
GRPH-341	Illustration	3	
GRPH-408	Advanced Publication Design	3	
GRPH-409	Issues in Information Design	3	
DIGD-206	Found. in Web Design & Strategy	3	

Graphic Design (for Design majors)**12 credits**

The Graphic Design minor introduces students to conceptual, aesthetic, and technological skills associated with the discipline. Courses focus on design principles and thinking as related to visual communication, typography, image making, information gathering and organization, research and concept development, with consideration for audience and context.

Minor Pre-Requisites	Course Title	Credits	Pre-Requisite(s)
DRAW-101	Drawing Essentials for Design	3	
<i>One or More of the Following:</i>			
VDES-101	Design Essentials	3	
ADFND-101	Arch & Interior Design Foundations	3	
INDD-101	Design 1 for Industrial Design	4	
Required Courses	Course Title	Credits	Pre-Requisite(s)
GRPH-110	Digital Imaging for Graphic Design	3	

GRPH-102	Intro to Graphic Design	3	
GRPH-201	Design III for Graphic Design Comm	3	
Select Any 1 Course	Course Title	Credits	Pre-Requisite(s)
GRPH-202	Design IV for Graphic Design Comm	3	GRPH-201
GRPH-208	History of Graphic Design	3	
GRPH-341	Illustration	3	
GRPH-408	Advanced Publication Design	3	
GRPH-409	Issues in Information Design	3	

Graphic Design (for Non-Design students)

12 credits

The Graphic Design minor introduces students to conceptual, aesthetic, and technological skills associated with the discipline. Courses focus on design principles and thinking as related to visual communication, typography, image making, information gathering and organization, research and concept development, with consideration for audience and context.

Required Courses	Course Title	Credits	Pre-Requisite(s)
VDES-101	Design Essentials	3	
GRPH-110	Digital Imaging for Graphic Design	3	
GRPH-102	Intro to Graphic Design	3	
GRPH-201	Design III for Graphic Design Comm	3	

Industrial Design (Custom Minor)

13 credits min.

A minor in Industrial Design allows students to gain insight into the processes of human-centered product development, physical interaction, product aesthetics, and manufactured objects.

A minor in Industrial Design is a custom minor, based on your major, level, and interests. Each minor must include at least one studio; an additional 3 courses are selected through advisement by Mark Havens. Please book a meeting with Mark Havens (mark.havens@jefferson.edu) for advising and course selection.

Required Course(s) (at least 1 from below, to be chosen with Industrial Design advisor)	Course Title	Credits	Prerequisite(s)
INDD 201	Design 3	4	
INDD 202	Design 4	4	

INDD 301	Design 5	4	
INDD 302	Design 6	5	
Select Any 3 Courses	Course Title	Credits	Prerequisite(s)
INDD 206	CAD 1	3	
INDD 306	CAD 2	3	CAD 1- can be waived with portfolio review
INDD 107	Visualization 1 for INDD	3	
INDD 108	Visualization 2 for INDD	3	Visualization 1- can be waived with portfolio review
INDD 106	Materials and Processes for Fabrication	3	
INDD 207	Materials and Processes for Manufacturing	3	
INDD 212	Introduction to Furniture Design	3	
INDD 211	Furniture Design 1	3	Introduction to Furniture Design or instructor permission
INDD 403	Furniture Design 2/Advanced Furniture	3	Furniture Design 1 or instructor permission
INDD 371	Soft Goods Development	3	
INDD 372	Soft Goods Fabrication	3	Soft Goods Development or instructor permission
INDD 204	Lighting as Public Experience	3	
	Luminaire Design	3	
INDD 210	Ergonomic Studies	3	
INDD 324	History of Design & Communication	3	
INDD 304	Design History & Theory	3	
INDD 704	Interactive Prototyping	3	
INDD 707	Current Issues in Industrial Design	3	Permission of Instructor
INDD 700	Research & Process Methods	3	Permission of Instructor
INDD 701	Design Business & Entrepreneurship	3	Permission of Instructor
INDD 798	Independent Study in INDD	3	Permission of Instructor

Web Design (for Non-Visual Communication Design students)**12 credits**

The Web Design minor introduces students to digital product design, strategy, and the technological skills associated with the discipline. Courses focus on digital design fundamentals, experiential design, user interface design, strategy, information architecture, prototyping, usability, front-end development and software.

Required Courses	Course Title	Credits	Pre-Requisite(s)
DIGD-200	Fundamental of Web Programming	3	
DIGD-206	Foundations of Web Design & Strategy	3	
DIGD-403	Web Development	3	
DIGD-307	Advanced Web Design & Strategy	3	

Web Design (for Visual Communication Design students)**12 credits**

The Web Design minor introduces students to digital product design, strategy, and the technological skills associated with the discipline. Courses focus on digital design fundamentals, experiential design, user interface design, strategy, information architecture, prototyping, usability, front-end development and software.

Required Courses	Course Title	Credits	Pre-Requisite(s)
DIGD-307	Advanced Web Design & Strategy	3	
DIGD-320			
DIGD-403	Web Development	3	
DIGD	Any DIGD Elective	3-4	