Prototyping Methods
Prototyping is a key method that designers use to navigate the design development process. Although prototyping is often thought of as coming at the end of the process to verify a design solution, our approach maintains that prototyping needs to happen throughout the process from initial research to storytelling to concept generation and lastly to refine and improve the selected direction.
Lecture: 3 Lab: 0 Credits: 1.5

Critique Methods
Explore the various types of critique and their usefulness at different stages of the design process.
Lecture: 1.5 Lab: 0 Credits: 1.5

Fundamentals of Product Design
In this course students will examine what, how, and why product form happens. Topics include the relationship between a product’s form and corporate identity, visual trends, new materials, manufacturing techniques, semantics, product architecture, and ergonomics.
Lecture: 3 Lab: 0 Credits: 1.5

Modes of Human Experience
Analysis of issues involved in a design project with a human factors perspective is an important step during user research and the design development process. Knowing the basic concepts and principles of human factors will enable students to be user centered in their approach.
Lecture: 3 Lab: 0 Credits: 1.5

Data Literacy
Introduction to the methods, tools, and techniques for working with “quant” data in the design process.
Lecture: 1.5 Lab: 0 Credits: 1.5

Design Development and Implementation
An introduction to the common methods used to produce or manufacture products. Alternative processes, materials and finishing methods, relative costs, and applicability to design of products will be explored.
Lecture: 3 Lab: 0 Credits: 1.5

Shaping Digital Futures
Explore the interdisciplinary practice of crafting computational and networked services that enhance human life, balancing technological innovation with social responsibility, ethics, and economic values.
Lecture: 1.5 Lab: 0 Credits: 1.5
IDX 523
Agile for Design Outcomes
Upon completion of this course students will be able to create a focused point-of-view and reframe a problem, decompose a strategy statement into “who, what, wow” statements, generate a service blueprint, map to specific features and functions and a backlog of prioritized work – that can trace back to the strategic statement in a virtuous cycle.
Lecture: 0 Lab: 3 Credits: 3

IDX 524
Interaction Design Workshop
This workshop offers students the opportunity to practice methods for design research, concept development, interaction design, and rapid prototyping. Students may take this class multiple times, non-concurrently, for a maximum of 12 credits towards their degree.
Lecture: 0 Lab: 3 Credits: 3

IDX 528
Prototyping Interactions
This course introduces different methods and tools for the prototyping of interactive systems. Students will employ the different methods to translate a concept from ideation to installation through multiple layers of sketches, prototypes, and interactive peripherals.
Lecture: 0 Lab: 3 Credits: 1.5,3

IDX 529
Applied Tech Frontiers
Explorations of technology applications and opportunities for contemporary societal issues.
Credit: Variable

IDX 530
Interaction Design for Immersive Systems
This course explores issues in design for interactions that are enabled by affordances available in ubiquitous computing, mixed reality, and virtual reality environments.
Lecture: 3 Lab: 0 Credits: 1.5

IDX 532
Human + Data Systems
Upon completing this course, students will be able to demonstrate visually how human-data systems drive feedback loops, facilitate data capture and ask for consent, and explain how that differs between conscious data creation and passive data collection; analyze different human-data systems and be able to identify how feedback is captured, what that data is going to inform, and what actions are dependent on the insights derived from that data; and explore through making the opportunity for different data representation formats and mediums to facilitate data management and influence data awareness.
Lecture: 1.5 Lab: 0 Credits: 1.5

IDX 534
Design for Climate Leadership
The course introduces students to the science of climate change, the vulnerabilities of different populations to CC impacts, and the range of actions pursued by individuals, organizations and nation-states in response to it. We will also critically explore the role of design in contributing to the current trajectory of CC, and in developing strategies for mitigation, adaptation and resilience to CC.
Lecture: 0 Lab: 3 Credits: 3

IDX 535
Politics of Design
To design is to perform an ideological and political act that has the power to fundamentally shape societies and systems. And yet, design utilizes methodologies that possess an illusion of neutrality situated outside of a societal or systemic context which inherently reifies discrimination by masking the biases of designers and co-creators. The empathic designer still possesses their own history, politics, and intentions that color the orientation of that empathy. This course will explore the interrelationship of the politics of design across individuals, practices, organizations, institutions, and systems.
Lecture: 1.5 Lab: 0 Credits: 1.5

IDX 536
Introduction to Design Futures
This “Introduction to Design Futures” course is structured as a comprehensive exploration of the future-focused design process, employing a four-step, multidisciplinary approach called Synthesizing Futures.
Lecture: 1.5 Lab: 0 Credits: 1.5

IDX 537
Designing Futures
This course overviews a wide range of methodologies and approaches that have been used to engage in narratives about these futures including backcasting & histories of the future, predictive analytics and big data, forecasting and trend analysis, visioning & “visioneering”, scenario planning, anticipatory design, speculative and critical design, science fiction, design fiction, speculative fabulation and feminist futures, Afrofuturism and decolonizing design.
Lecture: 0 Lab: 3 Credits: 3

IDX 540
Methods of Community Development
An exploration and comparative analysis of Asset-Based Community Development approaches, methods and tools, and ways to evolve the mindsets and practices of Human Centered Design.
Lecture: 0 Lab: 3 Credits: 3

IDX 541
Critical Contexts
The world is in flux. Everything must be re-designed. This course will survey a selection of theories, ideas and concepts that form the basis for understanding ourselves, the category of “the human” and the world that we live in. Currently, many aspects of human experience are being reconsidered through emergent notions of the posthuman and the more-than-human.
Credit: Variable
IDX 542
Analysis + Synthesis
This course is an overview of methods to analyze data and synthesize solutions that will likely be encountered as part of a design effort.
Lecture: 0 Lab: 3 Credits: 3

IDX 548
Innovation Methods
The course will present an overview of some of the key principles that drive design innovation followed by a broad look at the design innovation process, various methods, and frameworks.
Lecture: 0 Lab: 3 Credits: 1.5,3

IDX 550
Building and Understanding Context
This course will improve critical thinking skills when wrestling with the wide variety of input and insight that often accompanies design initiatives. The course will include basic overviews of argumentation, secondary research, and group-based discussion methods.
Lecture: 0 Lab: 3 Credits: 3

IDX 551
Facilitation Methods
Explores the methods and techniques to guide teams to desired outcomes in ways that build alignment, engagement, and momentum.
Lecture: 1.5 Lab: 0 Credits: 1.5

IDX 552
Managing Interdisciplinary Teams
This class will teach methods and tools that focus a team’s creativity and analysis on the right deliverables and explore how the basic functional methods of the business world (such as schedules, budgets, emails, and meetings) can be informed by design thinking to be more effective for teams composed of multiple disciplines.
Lecture: 0 Lab: 3 Credits: 3

IDX 554
Agile Culture
Understanding key principles, values, culture/behaviors, and practices of Agile methodology in design practice.
Lecture: 1.5 Lab: 0 Credits: 1.5

IDX 555
Metrics that Matter
In this course, students explore how designers can develop their own interim measurement strategies that are more sensitive to design’s influence, thereby building data and evidence for their adoption and success.
Lecture: 1.5 Lab: 0 Credits: 1.5

IDX 557
Teaming Methods
In this course, you will learn teaming methods and best practices by working on several teams. Through research and collaborative activities, teams will arrive at learnings that will inform their best practice playbooks.
Lecture: 0 Lab: 1.5 Credits: 1.5

IDX 560
Introduction to Design Thinking
An introduction to the techniques and process of problem definition and solution generation as used in the field of design.
Lecture: 3 Lab: 0 Credits: 3

IDX 561
Introduction to Design Concepts
An introductory course into the methods and techniques of the field of design. Students will learn creative problem solving including how to manage ambiguous problems and work across disciplines.
Lecture: 3 Lab: 0 Credits: 3

IDX 562
Multidisciplinary Innovation
Prototyping new business concepts for both designers and non-designers. A focus on inter-disciplinary collaboration.
Lecture: 0 Lab: 3 Credits: 3

IDX 563
MDM Immersion
This course covers contemporary topics through a cohort exploration and hands on charette. Visiting lecturers will guide student through emerging and topical issues as they relate to how the field of design is changing. This course can be taken multiple times for up to 6 credits.
Lecture: 0 Lab: 1.5 Credits: 1.5

IDX 564
Faculty Research
Classes, workshops, and seminars revolving around faculty specific research. Instructor permit only. Instructor will define requirements for enrollment. Students may take this class multiple times for a maximum of 24 credits toward their degree.
Credit: Variable

IDX 565
Internship
Supervision of participation in curricular practical training (CPT).
Lecture: 0 Lab: 0 Credits: 9

IDX 566
Externship
This course enables students to receive academic credit for externing with a designated supervising design firm or department. Externs integrate and assimilate the skills learned in the classroom with those acquired in a specialized design placement.
Credit: Variable

IDX 567
Special Topics
Classes that cover special and contemporary topics in design. Students may take this class multiple times for a total of 24 credits toward their degree.
Credit: Variable

IDX 568
Independent Study
Student-driven course to explore contemporary issues in the field of design. Students may take this class multiple times, non-concurrently, for a maximum of 12 credits towards their degree.
Credit: Variable