The Master of Design (MDes) degree program is a three-semester, professional graduate degree in design that integrates human-centered design with a sophisticated understanding of technology to prepare students to excel in creative practices today and design the thoughtful technologies of tomorrow. Jointly offered by the College of Engineering and the College of Environmental Design, the program’s interdisciplinary curriculum connects technical rigor, design theory, and social practice and prepares students for a broad range of creative and technical roles for designing innovative products, services, and environments.

Housed at the Jacobs Institute for Design Innovation, the MDes provides a dynamic, hands-on curriculum that uniquely equips students to develop a critical perspective and navigate a range of technical languages and design methodologies. Studio-based coursework integrates programming, human-centered design process, and communication with hardware and software development. Exploratory project briefs encourage students to use design process to identify new problem spaces and to explore ideas through co-creative processes, iteration, and prototyping. A set of debate-focused seminars help shape students’ critical lens on design through analysis and discussion of the ethical, ecological, and societal implications of practice within an evolving environmental and socio-technology landscape. Students further deepen their knowledge through technical electives and offerings in social practice or entrepreneurship relevant to their interests and career goals. Their studies culminate in a Design Studio where they work in teams and bring their distinct perspectives to bear on applied projects.

In addition, students may be invited for an interview, either in-person or remote, and should be prepared to explain their qualifications, motivations to apply to the program, and goals for the program.

Portfolio Requirements
All applicants are required to submit a portfolio that demonstrates their creative and technical proficiency. Depending on your individual practice, this may include examples of visual design work, software systems, interactive electronics, videos, paintings, 3D models, ceramics, performances, musical compositions, social practices, or many other types of creative or technical pursuits. Your portfolio should be legible to a general audience of designers, and should not only present representations of final outcomes/designs in their intended contexts, but also accounts of your design process, and samples of early design iterations. Portfolios are expected to include both images and supporting text and should convey the context from which the project arose and the lens through which to understand and critique the work. Collaborative work is encouraged, but please credit all authors and highlight your specific contribution. Similarly, academic, professional, and personal work are all welcome, but please differentiate these distinct types of work.

In our experience, strong portfolios often opt to describe a limited selection of projects in depth, rather than account for a large breadth of projects superficially. We suggest highlighting between 3–5 of your most compelling exemplars of creative work. The most important role of a portfolio is to clearly communicate your skills, experience, and perspective. Your portfolio must include your name and contact information and be submitted as a stand-alone PDF formatted document. You may submit your portfolio of up to 20 pages maximum and 20MB total PDF file size. Portfolios that are submitted in excess of this page size restriction will not be reviewed by the admissions committee. Any URLs or links to outside materials within your portfolio or elsewhere in your application will not be reviewed. You may optionally include up to two minutes of additional time-based media (audio/video).

Graduate Division Admissions
Minimum Requirements for Admission
The following minimum requirements apply to all graduate programs and will be verified by the Graduate Division:

1. A bachelor’s degree or recognized equivalent from an accredited institution;
2. A grade point average of B or better (3.0);
3. If the applicant has completed a basic degree from a country or political entity (e.g., Quebec) where English is not the official language, adequate proficiency in English to do graduate work, as evidenced by a TOEFL score of at least 90 on the iBT test, 570 on the paper-and-pencil test, or an IELTS Band score of at least 7 on a 9-point scale (note that individual programs may set higher levels for any of these); and
4. Sufficient undergraduate training to do graduate work in the given field.

Applicants Who Already Hold a Graduate Degree
The Graduate Council views academic degrees not as vocational training certificates, but as evidence of broad training in research methods, independent study, and articulation of learning. Therefore, applicants who already have academic graduate degrees should be able to pursue new...
subject matter at an advanced level without the need to enroll in a related
or similar graduate program.

Programs may consider students for an additional academic master’s or
professional master’s degree only if the additional degree is in a distinctly
different field.

Applicants admitted to a doctoral program that requires a master’s degree
to be earned at Berkeley as a prerequisite (even though the applicant
already has a master’s degree from another institution in the same or
a closely allied field of study) will be permitted to undertake the second
master’s degree, despite the overlap in field.

The Graduate Division will admit students for a second doctoral degree
only if they meet the following guidelines:

1. Applicants with doctoral degrees may be admitted for an additional
doctoral degree only if that degree program is in a general area of
knowledge distinctly different from the field in which they earned their
original degree. For example, a physics PhD could be admitted to a
doctoral degree program in music or history; however, a student with
a doctoral degree in mathematics would not be permitted to add a
PhD in statistics.

2. Applicants who hold the PhD degree may be admitted to a
professional doctorate or professional master’s degree program if
there is no duplication of training involved.

Applicants may apply only to one single degree program or one
concurrent degree program per admission cycle.

Required Documents for Applications

1. Transcripts: Applicants may upload unofficial transcripts with your
application for the departmental initial review. Unofficial transcripts
must contain specific information including the name of the applicant,
name of the school, all courses, grades, units, & degree conferral (if
applicable).

2. Letters of recommendation: Applicants may request online letters
of recommendation through the online application system. Hard
copies of recommendation letters must be sent directly to the
program, by the recommender, not the Graduate Admissions.

3. Evidence of English language proficiency: All applicants who have
completed a basic degree from a country or political entity in which
the official language is not English are required to submit official
evidence of English language proficiency. This applies to institutions
from Bangladesh, Burma, Nepal, India, Pakistan, Latin America,
the Middle East, the People’s Republic of China, Taiwan, Japan,
Korea, Southeast Asia, most European countries, and Quebec
(Canada). However, applicants who, at the time of application, have
already completed at least one year of full-time academic course
work with grades of B or better at a US university may submit an
official transcript from the US university to fulfill this requirement. The
following courses will not fulfill this requirement:

- courses in English as a Second Language,
- courses conducted in a language other than English,
- courses that will be completed after the application is submitted,
and
- courses of a non-academic nature.

Applicants who have previously applied to Berkeley must also submit new
test scores that meet the current minimum requirement from one of the
standardized tests. Official TOEFL score reports must be sent directly
from Educational Test Services (ETS). The institution code for Berkeley
is 4833 for Graduate Organizations. Official IELTS score reports must
be sent electronically from the testing center to University of California,
Berkeley, Graduate Division, Sproul Hall, Rm 318 MC 5900, Berkeley, CA
94720. TOEFL and IELTS score reports are only valid for two years prior
to beginning the graduate program at UC Berkeley. Note: score reports
can not expire before the month of June.

Where to Apply
Visit the Berkeley Graduate Division application page (http://
grad.berkeley.edu/admissions/apply/).

The Master of Design (MDes) program requires nine core courses
and three electives (see below) for a minimum of 38 credits for the
degree.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES INV 200</td>
<td>Design Frameworks: History &amp; Methods</td>
<td>3</td>
</tr>
<tr>
<td>DES INV 201</td>
<td>Debates in Design (Students are required to take</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>this course twice; once during the fall semester</td>
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<td>in year one, and again during the fall semester</td>
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<td>of year two.)</td>
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<tr>
<td>DES INV 202</td>
<td>Technology Design Foundations</td>
<td>4</td>
</tr>
<tr>
<td>DES INV 211</td>
<td>Designing Emerging Technologies I</td>
<td>5</td>
</tr>
<tr>
<td>DES INV 212</td>
<td>Designing Emerging Technologies II</td>
<td>3</td>
</tr>
<tr>
<td>DES INV 213</td>
<td>Design Studio</td>
<td>5</td>
</tr>
<tr>
<td>DES INV 219</td>
<td>Capstone Portfolio</td>
<td>2</td>
</tr>
<tr>
<td>DES INV 290</td>
<td>Advanced Special Topics in Design Innovation</td>
<td>1-4</td>
</tr>
<tr>
<td>ENGIN 183</td>
<td>Special Topics in Technology Innovation and</td>
<td>1-4</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship</td>
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</tbody>
</table>

Elective Courses

The MDes requires three electives: one technical elective, and at least
one entrepreneurship or social practice elective from the approved
lists of courses, shown below. The third elective may be either an
additional elective from the approved list (technical, social practice, or
entrepreneurship) or any 3 or 4 unit upper division or graduate level
course offered at UC Berkeley, subject to enrollment availability. Students
may submit petitions for alternate courses to the Executive Director.

Approved Technical Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 249</td>
<td>Special Topics in the Physical Environment in Buildings</td>
<td>1-4</td>
</tr>
<tr>
<td>ARCH 252</td>
<td>Form and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 259</td>
<td>Special Topics in Building Structures</td>
<td>1-4</td>
</tr>
<tr>
<td>ARCH 269</td>
<td>Special Topics in Construction and Materials (Indoor</td>
<td>1-4</td>
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<tr>
<td></td>
<td>Microbiome, Detoxification, and Artificial Intelligence</td>
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<tr>
<td></td>
<td>and Matter; Plant Fibers and Design: Origins and Future</td>
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<tr>
<td></td>
<td>(Indoor Microbiome, Detoxification, and Artificial</td>
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<tr>
<td></td>
<td>Intelligence and Matter; Plant Fibers and Design:</td>
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<td>Origins and Future; Timber Frame and Mass Timber</td>
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<tr>
<td></td>
<td>Construction )</td>
<td></td>
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<tr>
<td>ART 172</td>
<td>Advanced Digital Media: Computer Graphics Studio</td>
<td>4</td>
</tr>
<tr>
<td>CIV ENG 190</td>
<td>Special Topics in Civil and Environmental Engineering</td>
<td>1-4</td>
</tr>
<tr>
<td>COMPSCI 161</td>
<td>Computer Security</td>
<td>4</td>
</tr>
</tbody>
</table>
Approved Social Practice Electives

ENGIN 283
ENGIN 183
ENGIN 183C

Approved Entrepreneurship Electives

C262
NWMEDIA/INFO
NWMEDIA C203
NWMEDIA 190
MUSIC 159
MUSIC 158A
MEC ENG 280A
MEC ENG C201
MEC ENG 122
MEC ENG 236U
MEC ENG 297
MEC ENG 289A
MEC ENG 284A
MEC ENG 260A
MEC ENG C249A
MEC ENG 188
MEC ENG 184
MEC ENG 260B
MEC ENG 194
MEC ENG 169A
MEC ENG 158A
MEC ENG 159

Approved Social Practice Electives

ENGIN 183C Challenge Lab 4
ENGIN 183D Product Management 3
ENGIN 183 Special Topics in Technology Innovation and Entrepreneurship 1-4
ENGIN 283 Special Topics in Technology Innovation and Entrepreneurship 1-4

ARCH 209 Special Topics in Architectural Design (Virtual Reality: Theory and Representation; Special Topics in Architectural Design: Housing as Design Generator; Contradictions in Disaster and Resilience) 3
ARCH 239 Special Topics in Architecture Design Theory and Criticism (Design Dispossession and Dissent) 1-4
ARCH 279 Special Topics in the History of Architecture (Design Radicals) 1-4
ART 160 Special Topics in Visual Studies (Social Practices; Making and Exhibiting Art in Pandemic Times) 4
CY PLAN 190 Advanced Topics in Urban Studies (Ghosts and Visions) 1-4
CY PLAN 205 Introduction to Planning and Environmental Law 3
CY PLAN 207 Land and Housing Market Economics 3
CY PLAN C213 Transportation and Land Use Planning 3
CY PLAN 216 Active Transportation 3
CY PLAN C217 Transportation Policy and Planning 3
CY PLAN C251 Environmental Planning and Regulation 3
CY PLAN 255 Urban Informatics and Visualization 3
CY PLAN C257 Data Science for Human Mobility and Socio-technical Systems 3
CY PLAN 257 Data Science for Human Mobility and Socio-technical Systems 4
NWMEDIA 151ACTransforming Tech: Issues and Interventions in STEM and Silicon Valley 4
NWMEDIA 200 History and Theory of New Media 4
NWMEDIA C265 Interface Aesthetics 3
NWMEDIA 290 Special Topics in New Media (Locative Media) 1-4

Approved Design Electives (may be taken as free/open elective)

ARCH 209 Special Topics in Architectural Design (Architecture and Landscape) 1-4
ARCH 229 Special Topics in Digital Design Theories and Methods 1-4
ARCH 269 Special Topics in Construction and Materials (Constructing Interior Objects) 1-4

Approved Entrepreneurship Electives

ENGIN 183C Challenge Lab 4
ENGIN 183D Product Management 3
ENGIN 183 Special Topics in Technology Innovation and Entrepreneurship 1-4
ENGIN 283 Special Topics in Technology Innovation and Entrepreneurship 1-4

Approved Social Practice Electives

ENGIN 283
ENGIN 183
ENGIN 183C

The goal of the Master of Design (MDes) program is to educate a cohort of designers to have a deep understanding of the foundations of emerging technologies and a rigorous design approach for analyzing ethical, ecological and societal implications of a continuously evolving environmental and socio-technology landscape. To meet this goal, MDes students are expected to:

- Master methods of problem-conception and problem-solving at a range of social and ecological scales.
- Hone methods of implementation grounded in the creative practice of design.
- Gain core design skills, in terms of process, materials, craft, and representation.
- Deepen and expand their technical skills in 1-2 emerging technology areas.
- Explicitly consider contexts and impacts of design decisions.
- Use design as a tool for collaboration and team-work.
- Communicate design ideas effectively to diverse collaborators and audiences.
- Weave all of the above together in multiple practice-focused studios.
As part of enrollment in the program, each MDes student receives a Jacobs Maker Pass for access to Jacobs Hall makerspace and a materials budget each semester to purchase materials from the store at Jacobs Hall. Access to the Fabrication Shop in College for Environmental Design (CED) and to the CITRIS Innovation Lab is also included.

Starting in the second semester of the program, each MDes student is assigned a desk in the MDes studio to support their individual and collaborative work.

MDes students may apply for GSI positions, when they are available, for undergraduate design courses offered at The Jacobs Institute for Design Innovation. These teaching opportunities are optional and MDes students are expected to be able to balance GSI responsibilities with their own educational commitments with little difficulty.

MDes students are expected to complete Design@Large, a professional development requirement for the program. Design@Large requires students to engage in an experience outside of an MDes course or studio where they apply what they have learned in a broader context. Design@Large experience typically takes place in the summer between the Spring and Fall semesters and is uniquely defined to align with students’ interests and career goals.

MDes students may satisfy this requirement in the following ways:

- Securing an internship
- Having an international experience
- Contributing to a research project
- Launching or contributing to a new start-up or business
- Working in government, service or non-profit organization

The MDes Program provides Career Services advising and other resources to aid students in their pursuit of internships or other professional opportunities as part of this requirement. It is each student’s responsibility, however, to define and identify their Design@Large experience.

MDes students demonstrate the completion of the Design@Large requirement by documenting a project or contribution from their experience in DES INV 219: Capstone Portfolio, a culminating course, required for all MDes students in the last semester of the program.

In this course, students compile a portfolio of work that has been completed during the MDes program, selecting meaningful pieces that demonstrate the achievement of key learning objectives and highlight the underlying themes of their course of study in the program. As part of this documentation, the Capstone Portfolio must also include and reflect on their Design@Large experience.

DES INV 200 Design Frameworks: History & Methods 3 Units
Terms offered: Spring 2023, Spring 2022, Fall 2021
This course exposes students to the mindset, skillset and toolset associated with design, and interweaves practical design methods with readings and lectures on the history of design and technology.

DES INV 201 Debates in Design 3 Units
Terms offered: Fall 2022, Fall 2021, Spring 2021
As today’s most pressing challenges cut across disciplinary boundaries, designers need to articulate new methods for connecting conceptual knowledge with technical skills and develop new ways of integrating ideas from various perspectives and world views. Each year students in this colloquium-style course explore a topic in design. Invited lecturers present a relevant project or challenge from their professional careers at a given intersection of critical contemporary issues expressed at a particular scale of design practice. Speakers share background material or readings in advance, allowing students to arrive with thoughtful questions and discussion points. Students compose written reflections throughout and following each speaker.

DES INV 201 Debates in Design: Read More [+]

DES INV 201 Debates in Design: Read Less [-]

DES INV 201 Debates in Design: Read More [+]

DES INV 201 Debates in Design: Read Less [-]

DES INV 201 Debates in Design: Read More [+]

DES INV 201 Debates in Design: Read Less [-]

DES INV 201 Debates in Design: Read More [+]

DES INV 201 Debates in Design: Read Less [-]
DES INV 202 Technology Design Foundations
4 Units
Terms offered: Fall 2022, Fall 2021, Spring 2021
This course introduces foundational design and technology frameworks and builds skill sets essential to the design of products, services, and experiences enabled by emerging technologies. It follows a human-centered design process that includes research, concept generation, and prototyping, with an emphasis on iteration and refinement. It also develops fluency across a range of core technologies, from fabrication to micro-controllers, and how to operationalize them within a design context. These activities are supported by regular practice of design critique. Students engage with a highly technical semester-long project to create a product-service system leveraging both hardware and digital technologies that addresses a well-defined need.

Objectives & Outcomes
Course Objectives: Students are expected to build fluency in the following skill sets through Technology Design Foundations:
# Iteratively prototyping a range of physical and interactive concepts;
# Validate hypotheses using technical and experiential prototypes, and statistical methods;
# Visually and experientially communicating design concepts to inspire audiences and solicit feedback.
# design ideation;
# establishing empathy for users and stakeholders;
# framing complex problems as actionable design opportunities;

Student Learning Outcomes: - Communicate both conceptual and concrete ideas effectively, using a range of visual and verbal presentation techniques
- Give form to design ideas through prototyping at a range of fidelities, and using a range of materials and tools, including electronics, to convey specific information about a design idea
- Lead key steps in an iterative and human-centered design process, including conducting research, uncovering insights, generating ideas, and developing and testing prototypes.
- Work effectively in teams with a toolkit of resources to support productive teamwork

Upon completing this course, students will be able to:

Rules & Requirements
Repeat rules: Course may be repeated for credit with advisor consent.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of studio per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.
Technology Design Foundations: Read More [+]

DES INV 211 Designing Emerging Technologies I
5 Units
Terms offered: Spring 2023, Spring 2022, Fall 2021
This course is an intensive, project-based course that focuses on design of interactive artifacts that use emerging technologies. Students are led through a sequence of projects of varying lengths (from one week to three weeks). This serves as the first in a two part sequence of courses (with DES INV 212) intended to develop student skills in designing with technology as a material. Projects include both individual and team activities, with teams frequently changing in size and composition.

Rules & Requirements
Prerequisites: Students must have either completed or be concurrently enrolled in DES INV 202: Technology Design Foundations and DES INV 200: Design Frameworks

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 3 hours of laboratory per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.
Instructor: ERIC PAULOS
Designing Emerging Technologies I: Read Less [-]

DES INV 212 Designing Emerging Technologies II
3 Units
Terms offered: Fall 2022, Spring 2022
This course is an intensive, project-based course which serves as part of the core required curriculum for students in the Master of Design program. Students are led through a sequence of projects of varying lengths (from one week to one month). The course builds on Designing Emerging Technologies I, and focuses on developing fluency with a different set of technologies. Projects include both individual and team activities, with teams frequently changing in size and composition.

Rules & Requirements
Prerequisites: DES INV 211: Designing Emerging Technologies I

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of lecture and 1.5 hours of laboratory per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.
Designing Emerging Technologies II: Read Less [-]
DES INV 213 Design Studio 5 Units
Terms offered: Fall 2022, Spring 2022
In this course you will participate in a hands-on design studio focused on key topics of concern related to design and technology innovation. The primary goal of this course is to orient students to fabrication, building technologies, and fundamental design production skills in a studio environment. A key secondary goal is to provide students the opportunity to address a real world problem and provide an application or solution. Themes and project topics, as well as subject matter expertise, are provided by either external partners, including companies, local governmental offices, or nonprofits, or provided by faculty and related to research interests.

Rules & Requirements
Prerequisites: Students must be concurrently enrolled in DES INV 219: Capstone Portfolio

Hours & Format
Fall and/or spring: 15 weeks - 6 hours of studio and 2 hours of lecture per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.

DES INV 219 Capstone Portfolio 2 Units
Terms offered: Fall 2022, Spring 2022
In this culminating course for the MDes degree, you compile a portfolio of work that has been completed during the MDes program, selecting at least four meaningful pieces that demonstrate the achievement of key learning objectives and highlight the underlying themes of your course of study. Two projects should be deeper investigations of projects done in previous classes. The third project featured should be a deep dive into the project pursued in studio. The fourth entry of the portfolio should reflect on Design@Large, an experience you have had outside of an MDes course or studio where you have furthered your design knowledge and expertise within a broader context.

Rules & Requirements
Prerequisites: Culminating course taken at the end of the MDes program

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.

DES INV 290 Advanced Special Topics in Design Innovation 1 - 4 Units
Terms offered: Spring 2023, Fall 2022, Spring 2020
Selected advanced topics in design innovation.

Rules & Requirements
Prerequisites: Varies by topic. Check syllabus and/or Jacobs Institute website for specific prerequisites
Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format
Fall and/or spring:
7 weeks - 1-8 hours of lecture per week
8 weeks - 1-8 hours of lecture per week
15 weeks - 1-4 hours of lecture per week

Summer:
6 weeks - 2-10 hours of lecture per week
8 weeks - 2-10 hours of lecture per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.

DES INV 213 Design Studio 5 Units
Terms offered: Fall 2022, Spring 2022
In this course you will participate in a hands-on design studio focused on key topics of concern related to design and technology innovation. The primary goal of this course is to orient students to fabrication, building technologies, and fundamental design production skills in a studio environment. A key secondary goal is to provide students the opportunity to address a real world problem and provide an application or solution. Themes and project topics, as well as subject matter expertise, are provided by either external partners, including companies, local governmental offices, or nonprofits, or provided by faculty and related to research interests.

Rules & Requirements
Prerequisites: Students must be concurrently enrolled in DES INV 219: Capstone Portfolio

Hours & Format
Fall and/or spring: 15 weeks - 6 hours of studio and 2 hours of lecture per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.

DES INV 219 Capstone Portfolio 2 Units
Terms offered: Fall 2022, Spring 2022
In this culminating course for the MDes degree, you compile a portfolio of work that has been completed during the MDes program, selecting at least four meaningful pieces that demonstrate the achievement of key learning objectives and highlight the underlying themes of your course of study. Two projects should be deeper investigations of projects done in previous classes. The third project featured should be a deep dive into the project pursued in studio. The fourth entry of the portfolio should reflect on Design@Large, an experience you have had outside of an MDes course or studio where you have furthered your design knowledge and expertise within a broader context.

Rules & Requirements
Prerequisites: Culminating course taken at the end of the MDes program

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Design Innovation/Graduate
Grading: Letter grade.

DES INV 290 Advanced Special Topics in Design Innovation 1 - 4 Units
Terms offered: Spring 2023, Fall 2022, Spring 2020
Selected advanced topics in design innovation.

Rules & Requirements
Prerequisites: Varies by topic. Check syllabus and/or Jacobs Institute website for specific prerequisites
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Grading: Letter grade.