

CM Program Code Certificate in Interdisciplinary Design

Under Review | Fall 2023

Proposal Information

Workflow Status

In Progress

Faculty Senate Approval, Faculty Senate

expand ▲

Waiting for Approval | Faculty Senate Approval

Rick Holmes

Nancy Middlebrook

Proposal Information

Sponsoring faculty member ⓘ

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College

Honors College

Department

Honors Program

Campus

Main Campus

Effective Term and Year

Proposed Effective Term and Year

Fall 2023

Justification

Program Justification

The 12-credit transcripted Interdisciplinary Design Undergraduate Certificate will provide UNM undergraduate students with academic skills and practical experiences, preparing them for a range of career fields that rely on design thinking and design methods. The certificate consists of a minimum of 12 undergraduate credit hours. Students will select four courses from an approved list, including at least one course that provides an introduction on how to design. The courses must span at least three departments and two colleges. Upon successful completion of the requirements, students are awarded a transcripted Undergraduate Certificate in Interdisciplinary Design.

Broadly, the goal of the Undergraduate Certificate in Interdisciplinary Design is to promote the competitiveness of UNM graduates in both meeting market demands and empowering them as citizens. The purpose of the certificate is to enhance the interdisciplinary design capacity of students. This aligns with the UNM Mission, as this capacity—which comprises values, habits of mind, knowledge, and skills—prepares students not just to be problem solvers, but to frame and reframe problems that appear to be intractable, persistent, or are reproduced across solutions. Learning to frame and reframe problems empowers people to be engaged citizens capable of making change, to contribute to economies as producers of ideas that go beyond the ordinary, and to lead more satisfying lives because they have and know how to use their agency to make consequential decisions.

Associated Forms

Select any associated course forms that exist

Select any associated program forms that exist

Program Category and Level

Program Category Certificate	Program Level Undergraduate	Degree, Minor, or Certificate Name Certificate in Interdisciplinary Design
New Graduate Program No	Dual Degree No	New Undergrad Degree/Certificate Yes

Catalog Information

Program Description

The Certificate in Interdisciplinary Design provides students with an interdisciplinary community of scholars at the University of New Mexico doing research, teaching, and service at the confluence of design thinking, interactive working processes, and community engagement. All undergraduate students, from a range of diverse perspectives and disciplines—ranging from the humanities to the arts, to architecture & planning, and computer science—are invited to apply.

Key student learning outcomes include conducting asset inventory, developing problem-solving skills through hands-on projects, and employing design thinking practices using ethical and culturally responsive methods for a range of diverse stakeholders. Other major student learning outcomes include community engagement, collaborative working methods, prototyping, and iterative processes in order to improve and reimagine communities.

Admissions Requirements

The certificate is only available to current undergraduate students already matriculated in an undergraduate degree-granting program (i.e. bachelor's degree program) at the University of New Mexico, regardless of the field of study. No application is necessary. Students will meet with advisement so they can certify that they have taken four courses from the approved list (must be in three different departments). Only courses with a grade of C or better will count toward the certificate credits.

Graduation Requirements

The certificate requires the completion of 12-credit hours from a list of approved courses, including at least one course that provides an introduction on how to design. Up to 6 credit hours may be completed in one department, including a maximum of 3 credit hours of independent study. Courses may double-count with major or elective requirements. A list of approved courses, and information for the Interdisciplinary Design faculty and staff advisors, may be found at the website: www.i-design.unm.edu

File Uploads

Proposal File Upload

- Final-2022-Proposal for Interdisciplinary Design Certificate .pdf

Executive Summary Upload

- Executive Summary.pdf

Associate Provost Memo

- Proposal to create a 12-credit "INTERDISCIPLINARY DESIGN UNDERGRADUATE CERTIFICATE".pdf

Concentrations

Program Concentrations

Code

Title

Concentration Required

No

Certificate Information

Certificate Requirements

Certificate in Interdisciplinary Design Requirements

12

Total Credits

- Complete all of the following
 - Complete the following:
 - ARCH2151 - Design Thinking (3)
 - Earn at least 9 credits from the following:
 - ARCH450 - Design Leadership (3)
 - ARCH462 - Seminar (1 - 3)
 - ARTS1510 - Introduction to Electronic Arts (3)
 - ARTS445 - Text and Image: Graphic Design for Artists (3)
 - ARTS445 - Text and Image: Graphic Design for Artists (3)
 - ARTS447 - Augmented Spaces (3)
 - ARTS429 - Undergraduate Topics in Studio Art (1 - 6)
 - ARTS333 - Digital Fabrication (3)
 - ARTS429 - Undergraduate Topics in Studio Art (1 - 6)
 - CBE101 - Introduction to Chemical and Biological Engineering (1)
 - CBE102 - Addressing Societal Challenges using the Tools of Chemical and Biological Engineering (1)
 - CS152L - Computer Programming Fundamentals (3)
 - CS105L - Introduction to Computer Programming (3)
 - CS251L - Intermediate Programming (3)
 - CS365 - Introduction to Scientific Modeling (3)
 - CS108L - Computer Science for All: An Introduction to Computational Science and Modeling (3)
 - CS293 - Social and Ethical Issues in Computing (1)
 - HNRS2113 - Seminar in Fine Arts as Global Perspective (3)
 - UHON301 - Honors Seminar (3)
 - UHON402 - Honors Seminar (3)
 - UHON302 - Honors Seminar (3)
 - UHON401 - Honors Seminar (3)
 - LAIS309 - Topics in Integrative Studies (1 - 3)
 - OILS418 - Creativity in the Wild (1)
 - OILS419 - Framing Wicked Problems (2)
 - OILS420 - Creativity and Technical Design (3)
 - OILS495 - Field Experience (1 - 6)
 - ARCH2151 - Design Thinking (3)
 - Up to 6 credit hours may be completed in one department, including a maximum of 3 credit hours of independent study.

Grand Total Credits: 12