

# INNOVATIVE DIGITAL MEDIA

The Certificate Program in Innovative Digital Media develops competencies and connectedness to digital culture and technology by encouraging students to shift from the role of consumer to active participant, and from active participant to innovator. The Certificate is a credential that indicates students have gained a high degree of technological awareness, expertise, and creativity in problem-solving. The Certificate program will offer students the opportunity to participate in existing interdisciplinary projects carried out by faculty, staff, and students working in digital technology, and create pathways for students to demonstrate their projects and accomplishments in those areas. Examples of work that may be undertaken in this Certificate include, but are not limited to, the production of:

- media
- videos
- podcasts
- code
- art
- software
- sound installations
- interactive platforms
- public events

Embracing their role as digital innovators, students who gain experience through such projects will emerge with a portfolio of work that will demonstrate a high level of achievement to potential employers. Certificate students will be able to work collaboratively, creatively solve problems with technology, and adapt quickly to the changing nature of real-world situations that involve technological mediation.

## Faculty in Innovative Digital Media

Dan Bethune (<https://www.ncf.edu/directory/dan-bethune/>), Assistant in Humanities (Studio Technician)

Ryan Buysens (<https://www.ncf.edu/directory/ryan-buysens/>), Associate Professor of Digital Media and Art

Melissa Crow (<https://www.ncf.edu/directory/melissa-a-crow/>), Instructor of Statistics

Erin Dean (<https://www.ncf.edu/directory/erin-l-dean/>), Associate Professor of Anthropology

Tania Roy (<https://www.ncf.edu/directory/tania-roy/>), Associate Professor of Human Centered Computing

Jeff Thompson (<https://www.ncf.edu/directory/jeffery-thompson/>), Assistant Research, Instruction, and Digital Scholarship Librarian

Gerardo Toro-Farmer, Associate Professor of Coastal and Marine Science

## Requirements for the Certificate in Innovative Digital Media

**A minimum of five (5) academic units across at least two divisions or programs.** The courses below have been identified by the steering committee as IDM-eligible. Students will assemble ePortfolios to demonstrate their acquired skills and to share with employers upon certificate completion.

Code	Title
<b>Humanities Division</b>	
ART 2400	Digi-Fab: Digital Fabrication for Art

### Social Sciences Division

ANTH 3600	New College Oral History
ENVS 3400	Energy, Environment, and Society

### Natural Sciences Division

CSCI 2200	Introduction to Programming in Python
STAN 3700	R for Data Science
CSCI 3100	Foundations of Human Centered Computing
GEON 2150	Introduction to GIS
CSCI 3450	Natural Language Processing
CSCI 4250	Introduction to Augmented Reality

### Interdisciplinary Programs

ENVS 3400	Energy, Environment, and Society
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### ISPs and Internships

ISP	Biomimicry
ISP	FabLab

### Additional Requirement

ePortfolio