

Digital Arts, Certificate

The digital arts are digital technologies that keep transforming how people create, perform, and experience art.

The goal of the digital arts certificate program is to give students skills to make works of art that are informed by digital technology, scholarship, disciplinary tradition, and interdisciplinary collaboration. At the core of the digital arts certificate is a commitment to innovation and interdisciplinary collaboration in research, teaching, creative work, and the public expression of the university's creative research and scholarship.

The Certificate in Digital Arts at the University of Iowa gives students the knowledge and skills "to apply new technologies and integrate multiple media and disciplines in new forms of expression" (Cal Arts, Integrated Media Program). Upon completion of the certificate, students are able to develop and realize artistic visions using digital technology and work collaboratively with other artists, engineers, or computer scientists.

The Department of Theatre Arts, which administers the Certificate in Digital Arts, partners with the schools of Music and Art, Art History, and Design, the departments of Computer Science and Cinematic Arts (College of Liberal Arts and Sciences), and the College of Engineering to offer the certificate. Most courses for the certificate include a public dimension, where projects are shown to a public audience.

Learning Outcomes

The certificate provides the ability to:

- think about and develop works of art that use digital technology in creative ways;
- participate in critical discourse about such artistic works;
- collaborate across disciplines on artistic projects at the intersection of the physical and digital worlds; and
- use art and digital technology to identify, attract, and interact with audiences in a meaningful and creative way.

Requirements

The undergraduate Certificate in Digital Arts requires a minimum of 25 s.h. of coursework, including at least 18 s.h. earned at the University of Iowa. Students must maintain a grade-point average of at least 2.00 in coursework for the certificate. Courses taken pass/nonpass do not count toward the certificate.

The certificate may be earned by any student admitted to the University of Iowa who is not enrolled in a UI graduate or professional degree program. Undergraduate to Graduate (U2G) students may earn the certificate when the undergraduate classification is primary.

Students should declare their intent to earn the certificate at the College of Liberal Arts and Sciences Undergraduate Programs office, at the Academic Advising Center, or on MyUI.

Students must meet with the certificate director or a digital arts advisor every semester to discuss their course selections and plan for the capstone course. The capstone project course may be taken only after both core courses have been completed.

The Certificate in Digital Arts requires the following coursework.

Requirements	Hours
Core Courses	6
Interactive Sound Course	3
Electronics/Robotics Course	4
Capstone Project	3
Elective Courses	9-10

Core Courses

Course #	Title	Hours
Both of these:		
DIGA:2880/ DANC:2880/ THTR:2880	Installations and Interactive Performance	3
DIGA:3895/ DANC:3895/ THTR:3895	Performance, Art, and New Technologies in Society	3

Interactive Sound

Course #	Title	Hours
One of these:		
DIGA:2800/ ARTS:2800/ CINE:2800/CS:2800/ DANC:2800/ MUS:2800/ THTR:2800	Introduction to Coding for Interactive Arts	3
DIGA:3285/ MUS:3285	New Musical Instruments: From Design to Performance	3

Electronics/Robotics

Course #	Title	Hours
One of these:		
DIGA:3840/ SCIM:3840/ SCLP:3840	Robotic Art Studio	4
DIGA:4835/ SCIM:4835/ SCLP:4835	Electronic Objects and Spaces	4
DIGA:4840/ SCIM:4840/ SCLP:4840	Air, Actuators, and Motors	4

Capstone Project

The capstone project must result in a work that is both artistic and digital, and it must be shared in a meaningful way with the public. It must be informally approved by the certificate director at least one semester before the work takes place. The student will then select at least one faculty member from an appropriate department as a formal advisor. The student then submits a written proposal to the certificate director and the advisor. The proposal must include a description of the work; a statement of why the student is prepared to accomplish the work; and a list of equipment, materials, space, or funding required.

Once the proposal is approved by the director and advisor, the student enrolls in an independent study in the advisor's home department with the advisor as instructor for 3 s.h. The student meets with the advisor on a regular basis and engages other faculty and students as needed. Once the

project is complete and shared publicly, the advisor evaluates the project and submits a grade.

Elective Courses

Course #	Title	Hours
Three of these:		
DIGA:2890/ DANC:2890/ THTR:2890	Producing and Directing Digital Video	3
DIGA:3876/ CINE:3876/ DANC:3876/ INTM:3876/ THTR:3876	Projection Design	3
CINE:1834/ THTR:1834	Modes of Film and Video Production (when topic is interactive multimedia programming)	4
CS:3980	Topics in Computer Science I	3
CW:3218/ INTD:3200	Creative Writing for New Media	3
DANC:3050	Body/Image: Dance and Media in Discourse and Practice	3
ECE:3320	Introduction to Digital Design	3
ENGR:2730	Computers in Engineering	3
INTM:2710/ CINE:2869/ SCIM:2710	Introduction to Intermedia	3
JMC:2020	Multimedia Storytelling	3
JMC:2030	Visual Communication and Design	3
MUS:2820	Electronic Music Production	3
MUS:3780	Audio Recording I	3
THTR:2690	Sound Excursions: The Evolving Soundscape and the Reverberations of Human Activity	3
THTR:3260	Sound Design for the Theatre	3
THTR:3270	Entertainment Design	3
THTR:3630	Special Topics in Theatre Arts (when topic is audio plays)	3

Academic Plans

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Digital Arts, Certificate

Course	Title	Hours
Academic Career		
Any Semester		
The undergraduate Certificate in Digital Arts requires a minimum of 25 s.h. of coursework, including at least 18 s.h. earned at the University of Iowa.		
Students must maintain a GPA of at least 2.00 in coursework for the certificate.		
Courses taken pass/nonpass do not count toward the certificate.		
Hours		0
First Year		
Fall		
DIGA:2880	Installations and Interactive Performance	3
Hours		3
Spring		
DIGA:3895	Performance, Art, and New Technologies in Society	3
Hours		3
Second Year		
Fall		
DIGA:4835 or DIGA:4840 or DIGA:3840	Electronic Objects and Spaces or Air, Actuators, and Motors or Robotic Art Studio	4
Hours		4
Spring		
DIGA:2800 or DIGA:3285	Introduction to Coding for Interactive Arts or New Musical Instruments: From Design to Performance	3
Hours		3
Third Year		
Fall		
Certificate: elective course ^a		3 - 4
Hours		3-4
Spring		
Certificate: elective course ^a		3 - 4
Hours		3-4
Fourth Year		
Fall		
Certificate: elective course ^a		3 - 4
Hours		3-4
Spring		
Certificate: capstone project ^b		3
Hours		3
Total Hours		25-28

^a Students must complete at least 9 s.h. of electives; see General Catalog for list of approved courses.

^b Consult certificate director for specifics.