

Media Arts and Sciences

AN INTERDEPARTMENTAL MAJOR

Co-Directors: *Metaxas (Computer Science) and Black (Studio Art)*

The Departments of Art and Computer Science offer an interdepartmental major in media arts and sciences that explores the artistic, cultural, and scientific applications of new media technologies. The program focuses on media production that balances artistic sensibility with analytical reasoning within the rich tradition of the liberal arts environment. Areas of study include digital imaging and design; web-connected database architectures; three-dimensional visualization and modeling; digital composition in audio/video; analog print and photographic processes; computer graphics and animation; human-computer interaction; and programming for networked environments.

A major in media arts and sciences requires twelve units of course work, at least eight of which must be above the 100-level and two of which must be at the 300-level. No more than one can be 350 or 360. Flexibility has been built into the major to allow students to adapt their course of study to their interests, choosing an emphasis either in media sciences or in media arts. The major starts with three introductory courses, at least five courses in the area of concentration and at least two courses outside the area of concentration. In addition to other courses at Wellesley, students can take courses from MIT's Media Lab or comparative media studies program.

Requirements for the major are listed below. A Frequently Asked Questions (FAQ) section can be found at the program's Web site: www.wellesley.edu/MAS/ along with a spreadsheet to help students plan their major.

1. Three required introductory courses, one each from studio art, art history and computer science: ARTH 101 (Introduction to the History of Art Part II: Renaissance to the Present), ARTS 109 (Basic Two-Dimensional Design) or ARTS 108 (Photography I), and CS 110 (Computer Science and the Internet).
2. At least two required art courses (at least five required for emphasis in media arts) from the following: ARTS 165 (Introduction to Video Production), ARTS 221 (Digital Imaging), ARTS 255 (Dynamic Interface Design), ARTS 260 (Moving Image Studio), ARTS 208 (Photography II) or ARTS 265 (Intermediate Video Production), ARTS 308 (Photography III) or ARTS 365 (Advanced Video Production), ARTS 313 (Virtual Form), ARTS 320 (Architectonics and Installation), ARTS 317 (Seminar. Topics in the Visual Arts), MUS 275 Computer Music: Synthesis Techniques and Compositional Practice.
3. At least two required computer science courses (at least five required for concentration in media sciences) from the following: CS 111 (Computer Programming and Problem Solving), CS 215 (Multimedia Design and Programming), CS 230 (Data Structures), CS 231 (Fundamental Algorithms), CS 242 (Computer Networks), CS 304 (Databases with Web Interfaces), CS 307 (Computer Graphics).
4. At least one media culture course is recommended from the following: ARTH 225 (Modern Art Since 1945), ARTH 226 (History of Photography: From Invention to Advertising Age), ARTH 291 (Persuasive Images), CAMS 175 (Introduction to Cinema and Media Studies). Other media studies courses that could apply may be offered in the future.

Majors are also encouraged to take an advanced media production course (e.g. an individual study).

Students may receive a maximum of one unit of college credit for a score of 5 on the Computer Science A or AB Advanced Placement Exam. This unit can count towards the media arts and sciences major.

Honors: The MAS thesis offers a year-long opportunity to develop independent research and production with honors. Students interested in proposing a thesis must have a minimum 3.5 GPA in the major, and the support of a faculty advisor in the Art or CS departments. Normally, the honors process needs to obey the guidelines of the corresponding department (Studio Art or CS). An interdepartmental review will occur at the end of the fall semester, to determine whether the student should continue her project as a 370 in the Spring and convey its decision to the student by December 20th. In a case where it is recommended that the Senior Thesis not be continued into the second semester, a student would receive credit for 360 work on the completion of a schedule of work previously agreed to between the thesis advisor and the student.

The thesis proposal should be discussed with the primary faculty advisor during the spring prior to senior year. Proposals for thesis projects must be submitted in writing, detailing the scope for the project, research methodology, project timeline, and must be accompanied by an electronic portfolio of at least 4 MAS projects. Proposals are due on August 25 before the beginning of the student's senior year.

MAS 250 Research or Individual Study

Prerequisite: Open to all students by permission.

Distribution: None

Semester: Fall, Spring

Unit: 1.0

MAS 250H Research or Individual Study

Prerequisite: Open to all students by permission.

Distribution: None

Semester: Fall, Spring

Unit: 0.5

The Olin College of Engineering offers the following courses that may be appropriate for a media arts and sciences major.

ENGR 2250 User Oriented Collaborative Design

ENGR 3220 Human Factors and Interaction Design