



NEW COURSE CIS 3.5: introduction to multi-media computing spring 2009

<http://www.sci.brooklyn.cuny.edu/~sklar/cis3.5/>

- *instructor:*
Prof Elizabeth Sklar (email: sklar@sci.brooklyn.cuny.edu; AIM: *agentprof*)
- *class meeting times and rooms:*
Mondays 9.30am-10.45am (room 384L) and Wednesdays 9.30am-10.45am (room 4411N)
Note: Sometimes other rooms will be used, like 3413N or 4412N. Check the “syllabus” section of the class web page for the location of each class meeting.
- *prerequisites:* none
- *course description:*
This course will commence with a broad introduction to topics in Multi-Media Computing (MMC), including: web design, game design, animation, data visualization, simulation and robotics. Discussions will cover a broad range of subjects, such as: multimedia hardware and software, including games; human interface design and input using multi-media devices; graphical and other forms of output to multi-media devices; computer-based sound editing; agent-based programming for simulations and robotics; and uses of multi-media in industry. Emphasis is on the design and creation of a range of artifacts, including: web pages with cascading style sheets; interactive, graphical web-based programs; and simple computer games, movies and narratives. *The course format consists of a mixture of lecture and laboratory class sessions, with strong emphasis on hands-on learning.*
- *the following topics will be covered in 4 curricular units:*
 - (I) introduction to web programming and web design
(Principles of Web Design; HTML, Cascading Style Sheets (CSS))
 - (II) interactive web programming and data visualization
(technologies include: “Processing”; “Many Eyes”)
 - (III) game programming, narrative and movie making
(technologies include: “Scratch”; “iMovie”; “GarageBand”)
 - (IV) agent-based programming, simulation and robotics
(technologies include: “NetLogo”; “RoboLab”)
- *note to advanced students:*
I anticipate that there will be a number of students entering our **new Multi-Media Computing (MMC) major** (for which this course is required) who have knowledge of some of the topic areas and technologies listed above. For each of the four curricular units, I will offer an advanced project and modified attendance requirements to students who can demonstrate proficiency with the introductory level material within that topic area.
- *assessment:*

60%	4 projects (15% each)
10%	midterm exam
30%	final exam