MS IN INFORMATION SYSTEMS, CONNECTIVE MEDIA (60 CREDITS)

The curriculum includes 45 credit of course work, and 15 credits of project work. The courses are split into categories: Core Technical courses (required across all Jacobs Institute MS programs); Connective Media Systems Technologies courses (technology classes that are important or unique to Connective Media); Human and Social courses (covering the human and social aspects of connective media); and studio / business / entrepreneurship courses. Beyond that, students can take most other courses that are offered on campus, a partial list of which is provided below. Courses are 3.0 credits unless otherwise noted.

TECHNICAL CORE (9 CREDITS – ALL REQUIRED)

- CS 5785 Applied Machine Learning
- CS 5356 Startup Systems Design & Engineering
- CS 5682/INFO 6410 HCI & Design

CONNECTIVE MEDIA SYSTEMS TECHNOLOGY (MIN. 9 CREDITS)

Required:

- INFO 5302 CM Systems & Tech

Electives (sample, not all courses offered each year):

- CS 5304/INFO 5304 Data Science in the Wild
- CS 5670 Computer Vision
- CS 5740 Natural Language Processing
- CS 5854 Networks and Markets
- INFO 5307 Future Interaction Techniques
- (CS/INFO TBD) Virtual and Augmented Reality
- CS 5432 Physical Computing
- INFO 6660 Technology for Underserved Settings

HUMAN & SOCIAL (MIN. 9 CREDITS)

Required:

- INFO 5310 Psychological and Social Aspects of Technology

Electives (sample, not all courses offered each year):

- INFO 5303 Privacy in the Digital Age
- INFO 5305 Usability and User experience Research
- INFO 5315 Information Policy
- INFO 5325 Values in Information Technology and Digital Media
- INFO 5910 Revolutionary Technologies

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SUBJECT TO CHANGE

STUDIO & ENTREPRENEURSHIP (MIN. 4 CREDITS)

Required:

- CS 5092 Startup Ideas (1.0)
- NBAY 6700 Leadership for Studio (1.0)

Electives (sample, not all courses offered each year):

- CS 5093 Product Management (1.0)
- NBAY 5500 Business for Non-Business (1.0)
- (TBD) Fundamentals of Entrepreneurship
- CS 5091 Conversations in the Studio (0.5, can be taken twice)

PROJECTS (15 CREDITS)

- CS 5999 MEng Project (Product Studio/Startup Studio 6.0 – first and last semesters)
- INFO 7900 Specialization Project (9.0 credits – second and third semesters)

ELECTIVES (14 CREDITS)

To compete the course requirements students may take additional courses of those listed above, or some of the courses listed below, or other courses given on campus with the approval of the director of the Connective Media program. A sample of courses includes (not all courses offered each year):

- Signal and Data Processing
- Computer Graphics
- Security and Privacy in the Wild
- Introduction to Database Systems
- Networked and Distributed Systems
- Feedback Systems & Reinforcement Learning
- Cryptocurrencies
- Health Tech, Data, Systems
- Modeling Under Uncertainty
- Optimization Methods

All students must be in good standing to continue the program. To be considered in good standing, students must maintain a cumulative GPA of 2.5 or higher, C- or better in all graded courses, and a B or better in all project work. (Courses where a student receives below a C- will not be counted towards graduation requirements.) Students who are not in good standing may be asked to leave the program.