# PLAN OF STUDY

**[FALL 2014]**

**MASTER OF SCIENCE IN MEDIA ARTS AND SCIENCE**

School of Informatics and Computing (SoIC)

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## MS: 36 Credit Hours

<table>
<thead>
<tr>
<th>Program Core</th>
<th>Electives or MAS Internship</th>
<th>Final Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>N500, N501, N503, N512</td>
<td>H543, H561, H563, H564, N505 or select from Additional List of Recommended Elective Courses</td>
<td>N506 - Fall/Spring (3 credit hours each)</td>
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</tbody>
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12 Cr. Hr. | 18 Cr. Hr. | 6 Cr. Hr. |

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
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<tbody>
<tr>
<td><strong>YR 1</strong></td>
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<tr>
<td>• N500 Principles of Multimedia Technology [M 6pm] Defazio</td>
<td>• N501 Foundations of Digital Production [T 6pm] Huang</td>
<td>Elective or Internship</td>
</tr>
<tr>
<td>• N503/H541 Digital Media Design / HCI 1 [R 6pm] Bolchini</td>
<td>• N512 Trends in Media, Info and Comm [R 6pm] Mannheimer</td>
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<tr>
<td>• One elective</td>
<td>• One elective</td>
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<td><strong>YR 2</strong></td>
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<tr>
<td>• N506 MAS Masters Final Project/Thesis</td>
<td>• N506 MAS Masters Final Project/Thesis</td>
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<tr>
<td>• Two electives</td>
<td>• Two electives</td>
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## FINAL PROJECT REQUIREMENTS

**N506:** All students must complete a final project of 6 Cr. Hrs. including N506 (Fall) and N506 (Sp.) of their second year under the supervision of a faculty member. Registration by permission only once a faculty member has agreed to supervise.

1. All students must complete a final project of 6 Cr. Hrs., including N506 (Fall) and N506 (Sp.) of their second year.
2. It is the responsibility of the student to select, contact in advance and engage directly with the individual MAS faculty who is most germane to the student’s interest for the final project.
3. Students will work on one final project that extends throughout the two courses (Fall and Spring).
4. Students will receive an official grade at the conclusion of each course/semester.
5. Students are encouraged to propose a project that can be realistically completed by the conclusion of their Spring semester.
6. Incompletes are **NOT** permitted.

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Detailed schedule of each course is updated and published every semester (including Summer sessions) on the IUPUI Registrar website.
MAS Internship (N505)  
(Equivalent to Elective Courses)

The Informatics Career Services Office assists students with finding MAS-related Internships (e.g., summer semesters) to gain valuable professional experience within the MAS industry prior to graduation. **Up to 6 credits of internships (course N505) may be counted towards elective credits. Credit for an internship should be requested prior to the starting date of the internship since retro-credit is not permitted.** Once approved authorization is given to register for an online credit internship course. Please contact Brian Benedict (bbenedic@iupui.edu), Director of Career Services, to learn more about internship opportunities and the credit internship evaluation and approval process.

**Additional List of Recommended Elective Courses**  
(Students MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments)

**MEDIA ARTS AND SCIENCE**  
N502 Digital Media Motion and Simulation Methods  
N504 Advanced Interactive Design Applications  
N553 Independent Study  
N585 Serious Gaming  
N585 Topics Courses in Media Development and Production (several also available during the Summer – check Summer schedule in early Spring semester)

**INFORMATICS**  
H503 Social Impact of Information Technologies  
B505 Informatics Project Management  
B512 Scientific Data Management  
B535 Clinical Information Systems  
H540 Data Mining for Security  
H550 Legal & Business Issues in Informatics  
I575 Informatics Research Design  
I590 Topics in Informatics, can be repeated  
H600 Professionalism and Pedagogy in Informatics  
H605 Social Foundations of Informatics

**DESIGN (HERRON)**  
HER–V501 Design Thinking (1.5 cr.)  
HER–V502 Human Factors in Design (1.5 cr.)  
HER–R511 Visual Research (3 cr.)

**COMMUNICATION**  
COMM–C 500 Advanced Comm Theory  
COMM–C 531 Media Theory and Criticism  
COMM–C 592 Advanced Health Communication  
COMM–C 620 Computer-Mediated Communication

**COMPUTER SCIENCE**  
CSCI 507 Object-Oriented Design & Prog  
CSCI 537 Intro to Distributed Computing  
CSCI 541 Database Systems  
CSCI 550 Computer Graphics  
CSCI 552 Advanced Graphics and Visualization  
CSCI 565 Programming Language

**PSYCHOLOGY**  
PSY570 Industrial Psychology – Fall, odd yr  
PSY572 Organizational Psych – Spring, even yr  
PSY615 Physiological Psych – Fall, even yr  
PSY640 Social Psychology I – Fall, odd yr  
PSY655 Cog Development – Fall, even yr

**SOCIOMETRY**  
SOC–R 556 Advanced Sociological Theory I  
SOC–R 557 Advanced Sociological Theory II  
SOC–R 559 Intermediate Sociological Statistics  
SOC–R 593 Applied Fieldwork for Sociologists  
SOC–S 530 Introduction to Social Psychology

**GEOGRAPHY**  
GEOG–G 536 Advanced Remote Sensing  
GEOG–G 537 Computer Cartography and Graphics  
GEOG–G 538 Intro to Geographic Information Systems  
GEOG–G 539 Advanced Geographic Information Systems

**OTHERS**  
ANTH 501 Fundamentals of Applied Anthropology  
ED 531 Computers in Education  
SLIS–S 532 INFO Architecture for the Web

**Recommended Research Methods Courses**  
(Students MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments)

ANTH-E404 Field Meth in Ethnography  
COM 501 Qualitative Research  
COM 502 Applied Qualitative Research Methods  
EDU 520 Strategies for Educational Inquiry  
EDU 611 Qualitative Inquiry in Education  
PSY-I 643 Cognitive Development (Fall, even yr)  
SOC–R 551 Quantitative Methods - Sociology  
SOC–R 559 Intermediate Soc Statistics  
NURS-L 650 Data Ana for Clinical & Admin Decision-Making  
NURS-R 612 Interpretive Data Analysis (2Cr.), Summer I-II  
PSY 600 Statistical Inference (Fall, even yr)  
PSY 601 Experimental Design (Spg, even yr)  
PSY 608 Measurement Theory and Interpret Data