**IUPUI Degree Map**

**Major**: Applied Data and Information Science BS to Master of Library and Information Science

**Specialization**: Applied Information Science

**Catalog Year**: Fall 2019 and beyond

**Note**: Students are expected to complete an average of 30 credit hours of coursework during the fall and spring semester. If fewer are completed successfully, or if developmental (noncredit) courses must be taken as prerequisites to required courses (e.g., Math 00100), students are expected to enroll in coursework during the summer sessions to get back on schedule for an on-time graduation.

**Critical Courses are printed in bold font**. Critical courses are required within the first two years of a degree program and are expected be taken in the designated semester, because they either serve as a prerequisite or provide foundational knowledge for the degree program.

| First Year | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Fall Semester** | | | | **Spring Semester** | | | |
| **Description** | **Course** | **Credits** | **Min. Grade** | **Description** | **Course** | **Credits** | **Min. Grade** |
| **First Year Seminar** | **INFO-I 100** First Year Experience | 1 | C | **Major: CORE/ Analytical Reasoning List B** | **INFO-I 201** Mathematical Foundations of Informatics | 4 | C |
| **Major: CORE/ Social Science** | **INFO-I 202** Social Informatics | 3 | C | **Major: CORE** | **INFO-I 223** Data Fluency | 3 | C |
| **Major: CORE** | **LIS-S 201** Foundations of Data Studies | 3 | C | **Major: Area of Specialization** | **INFO-I 303** Organizational Informatics | 3 | C |
| **Major: CORE/ Analytical Reasoning List A** | **MATH 15300** College Algebra | 3 | C | GE: Core Communication | ENG-W 131 Reading, Writing, & Inquiry | 3 | C |
| GE: Core Communication | COMM-R 110 Fundamentals of Speech Communication | 3 | C | GE: Arts & Humanities | Preferred: HIST-H 195, NEWM-N 100, NEWM-N 102, NEWM-N 201 Design Issues in Digital Media | 3 | C |
| GE: Cultural Understanding | From list | 3 | C | | | | |
| Total Credits | **16** | | | Total Credits | **16** | | |
| Cumulative Total | **16** | | | Cumulative Total | **32** | | |
| **Second Year** | | | | | | | |
| **Fall Semester** | | | | **Spring Semester** | | | |
| **Description** | **Course** | **Credits** | **Min. Grade** | **Description** | **Course** | **Credits** | **Min. Grade** |
| **Major: CORE** | **PBHL-B 302** Biostatistics for Informatics | 3 | C | **Major: CORE** | **INFO-I 308** Information Representation | 3 | C |
| **Major: CORE** | **INFO-I 275** Introduction to HCI Theory | 3 | C | **Major: CORE** | **INFO-I 421** Applications of Data Mining | 3 | C |
| **Major: CORE** | **LIS-S 202** Data Organization & Representation | 3 | C | **Major: Career Preparation** | **NEWM-N 299** Career Planning | 2 | C |
| **Major: CORE** | **INFO-I 210** Information Infrastructure | 4 | C | **Major: Area of Specialization** | **LIS-S 305** Data Curation & Management | 3 | C |
| **Major: Area of Specialization** | **LIS-S 281** Introduction to Archives | 3 | C | GE: Life and Physical Science | From list | 3 | C |
| Total Credits | **16** | | | Total Credits | **14** | | |
| Cumulative Total | **48** | | | Cumulative Total | **62** | | |

| Third Year | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Fall Semester** | | | | **Spring Semester** | | | |
| **Description** | **Course** | **Credits** | **Min. Grade** | **Description** | **Course** | **Credits** | **Min. Grade** |
| Major: CORE | INFO-I 305 Introduction to Research in Informatics | 3 | C | Major: CORE | NEWM-N 328 Visualizing Information | 3 | C |
| GE: Life and Physical Science | From list | 3 | C | Major: CORE | LIS-S 405 Data Archives | 3 | C |
| Major: CORE | LIS-S 301 Data Policy & Governance | 3 | C | Major: Area of Specialization | LIS-S 404 Surveillance Studies | 3 | C |
| Major: Area of Specialization | LIS-S 302 Data & Society | 3 | C | Major: CORE | INFO-I 330 Legal & Social Informatics of Security | 3 | C |
| Elective | | 3 | C | Elective | | 3 | C |
| Total Credits | **15** | | | Total Credits | **15** | | |
| Cumulative Total | **77** | | | Cumulative Total | **92** | | |
| **Fourth Year** | | | | | | | |
| **Fall Semester** | | | | **Spring Semester** | | | |
| **Description** | **Course** | **Credits** | **Min. Grade** | **Description** | **Course** | **Credits** | **Min. Grade** |
| Major: CORE | INFO-B 505 Informatics Project Management | 3 | C | CORE B | MLIS Elective | 3 | C |
| Major: CORE | LIS-S 402 Data Preservation | 3 | C | Major: Area of Specialization | INFO-I 465 Informatics for Social Change | 3 | C |
| Major: CORE | INFO-I 453 Computer & Information Ethics | 3 | C | Major: CAPSTONE | **Choose:** INFO-I 491 Internship, INFO-I 492 Thesis, *or* INFO-I 494 Capstone Project | 3 | C |
| CORE B | MLIS Elective | 3 | C | Elective | LIS-S 500 Methods and Tools for the Information Professional | 3 | C |
| Elective | | 1 | C | Elective | MLIS Elective | 3 | C |
| Total Credits | **13** | | | Total Credits | **15** | | |
| Cumulative Total | **105** | | | Cumulative Total | **120** | | |

**Note:** Students must earn a C or higher in all courses and maintain a cumulative grade point average of 2.0 or higher to graduate.

**Core B Preferred Options**:
LIS-S 304 Social Media Data
LIS-S 406 Scientific Data
LIS-S 407 Social Science Data
LIS-S 408 Business Data
INFO-I 459 Media and Technology Entrepreneurship

| Fifth Year (Graduate) | | | | | |
|---|---|---|---|---|---|
| **Summer 1** | | | | | |
| MLIS | LIS-S 501 Information Resources & Services | 3 | | | |
| Total Credits | Graduate: 3 | | | | |
| Cum. Total | Graduate: 18 | | | | |
| **Fall – Semester 9** | | | **Spring – Semester 10** | | |
| **Description** | **Course** | **Credits** | **Description** | **Course** | **Credits** |
| MLIS | LIS-S 502 Acquisition and Management of Knowledge and Information | 3 | MLIS | MLIS Elective | 3 |
| MLIS | LIS S-503 Organization and Representation of Knowledge and Information | 3 | MLIS | MLIS Elective | 3 |
| MLIS | MLIS Elective | 3 | MLIS | MLIS Elective | 3 |
| Total Credits | Graduate: 9 | | Total Credits | Graduate: 9 | |
| Cum. Total | Graduate: 27 | | Cum. Total | Graduate: 36 | |
| **Summer 2** | | | MLIS Electives must include one:<br>LIS-S 551 Library Management<br>LIS-S 552 Academic Library Management<br>LIS-S 553 Public Library Management<br>LIS-S 671 School Media<br>LIS-S 585 Archival Appraisal and Management | | |