LIS S651: Digital Collections

Department of Library and Information Science
Indiana University School of Informatics and Computing
Indianapolis
Spring 2020

Section No.: 26514
Credit Hours: 3
Instructor: Chris Marshall
Email: cmarsha@indiana.edu; csmarshall@yahoo.com
Prerequisites: S500, S501, S503 (or equivalent); S532 and S634 are both strongly recommended
Instruction mode: This course is offered online only.

Catalog Course Description
Engages advanced students in designing and developing digital collections in real-world library and information settings. Students create digital objects and use industry-standard digital content management systems to build and test their collections for usability, findability, and accessibility.

Extended course Descriptions
From preserving digital-born objects to digitized textual, image, audio, and video materials, library and information science professionals design and develop digital collections to meet the varied needs of their stakeholders and users. Along the way, developers must collaborate with individuals, communities, government agencies, corporations, and others to ensure these collections are easy to find, access, and use.

This course explores both the theory and practice of digital collections in academic, research, community, government, and other settings. Topics include digital objects (e.g., digitization processes, archiving, preservation); select and using digital content management systems; organization and representation of information (e.g., metadata, ontologies, classification, description); information architecture; findability, accessibility, usability; information access, user behavior and interaction; assessment and evaluation; and changing information environments.

You must complete S500, S501 and S503 (or equivalent) prior to taking this course.
It is strongly recommended that you complete S532 Information Architecture and S634 Metadata prior to taking this course.

Students should already have mastered technology skills. For students lacking entry skills, existing online resources can be valuable. IUPUI provides access to excellent online tutorials. Go to UITS IT Training (https://ittraining.iu.edu/explore-topics/show-all/index.html) for lots of resources including Canvas tutorials.
Required/Recommended Readings and Resources
The course content will be accessed through a series of web pages accessed through Canvas. In addition to readings and presentation materials, the pages also contain reflective questions and individual exercises to reinforce key concepts.

No textbook is required.

Required Software
1. Contentdm (subscription-based, instructions on access the school’s subscription will be given in class)
2. Omeka (open-sourced available online for download)

Teaching and Learning Methods
The course uses active learning and project-based learning approaches via Canvas.

Assessments
Each student should not only read the assigned material but also arrive at a competent understanding of it prior to assessment. These measures will be used to assess student-learning outcomes:

1. Projects assess comprehension and skill acquisition.
2. Summaries access student expression of course concepts.

Grade Allocation
- Projects (4): 80%
- Summaries (4): 20%

Learning Outcomes

<table>
<thead>
<tr>
<th>Upon completion of this course, students will</th>
<th>RBT</th>
<th>PGPL</th>
<th>PLO</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Categorize, describe, and evaluate digital collections by resources, specialties, disciplines, institutions, and audiences.</td>
<td>5</td>
<td>1</td>
<td>1, 6</td>
<td>Module 1 Project 1</td>
</tr>
<tr>
<td>Apply the digitization process to create both physical and digital-born objects including textual documents, images, audio, and video to meet institutional goals.</td>
<td>6</td>
<td>2</td>
<td>3</td>
<td>Modules 6 and 8 Projects 3 and 4</td>
</tr>
</tbody>
</table>
Upon completion of this course, students will

<table>
<thead>
<tr>
<th>Activity</th>
<th>RBT</th>
<th>PGPL</th>
<th>PLO</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create digital collections using both open-source and subscription-based tools.</td>
<td>6</td>
<td>1, 3</td>
<td>3, 7</td>
<td>Modules 6 and 8 Projects 3 and 4</td>
</tr>
<tr>
<td>Develop and implement plans for digital collection usability, findability, and accessibility.</td>
<td>6</td>
<td>1, 2</td>
<td>2, 6, 7</td>
<td>Module 4 Project 2</td>
</tr>
<tr>
<td>Create and apply guidelines associated with digitization and digital collections (e.g., best practices, file formats, digital objects, protocols, metadata standards, controlled vocabulary).</td>
<td>6</td>
<td>1, 3</td>
<td>3, 6</td>
<td>Module 4 Project 2</td>
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</table>

Revised Bloom's Taxonomy (RBT)
1. **Knowledge/Remembering:** The ability to recall or recognize specific information or data.
2. **Understanding:** Understanding the meaning of informational materials, translation, interpolation and interpretation of instructions and problems.
3. **Application:** The use of previously learned information in new and concrete situations to solve problems that have single or best answers.
4. **Analysis:** Breaks down information/concepts into smaller components. Each component is identified and understood as is the relationship of these components to the whole.
5. **Evaluation:** The ability to apply a criterion or set of standards to conclude a value judgment.
6. **Creation, Synthesis:** The ability to merge knowledge into creating a new meaning or structure including demonstrating how and why various diverse elements work together.

Principles of Graduate and Professional Learning (PGPL)
Learning outcomes are assessed in the following areas:
1. Demonstrate the knowledge and skills needed to meet disciplinary standards of performance, as stated for each individual degree.
2. Communicate effectively with their peers, their clientele, and the public.
3. Think critically and creatively to improve practice in their field.
4. Meet all ethical standards established for the discipline.

Program Learning Outcomes (PLO)
1. **Approach Professional Issues with Understanding**
   - Understand the social, political, ethical, and legal aspects of information creation, access, ownership, service, and communication
   - Anticipate emerging trends and respond proactively
2. **Assist and Educate Users**
   - Analyze and identify the information needs of diverse communities of users
   - Educate users and potential users to locate, use, and evaluate information resources and tools
   - Analyze and evaluate information systems and services in a variety of settings
3. **Develop and Manage Collections of Information Resources**
   - Design and apply policies and procedures that support the selection and acquisition of
information resources for particular communities of users

- Manage, evaluate, and preserve physical and virtual collections of information resources
- Uphold ethical and legal standards in acquiring, leasing, preserving, and providing access to information resources

4. Manage and Lead Libraries and Other Information Organizations

- Perform basic managerial functions, including planning, budgeting, and performance evaluation
- Communicate effectively to a variety of audiences

5. Apply theories of organizational behavior and structure

- Represent and Organize Information Resources
- Understand and apply principles of representation and organization

6. Use Research Effectively

- Design, conduct, interpret, and take action based upon research and evaluation

7. Deploy Information Technologies in Effective and Innovative Ways

- Implement and evaluate information and communication technologies for efficiency, usability, and value to users

Course Design
I have designed the projects in order for me to evaluate your performance. Your projects will require more careful preparation and accumulated knowledge. Instructions will be provided for every assignment via Modules in Canvas. The syllabus indicates what we cover for a particular Module period and what is due during the period. You can "hand in" any work early if you are done, of course, but work handed in early is considered ready to be graded unless otherwise specified or arranged. All assignments are due at 11:59pm EST on the days indicated. Use the Modules page to quickly get to instructions. For your projects, I have not limited you to word count. However, I want to avoid reading long essays that intentionally include a lot of information in the hope that there will be something I like or that assume I am impressed with length. I want you to be succinct and confident in your responses, not vague and rambling.

How to Submit Assignments
Assignments will be "handed in" using the Canvas Assignment component. Please note the due date indicated. Not all due dates fall into a predictable pattern although the submission deadline is always 11:59pm EST on those dates.

Course Overview

Module 1: Digital Collections and Objects
Definitions and examples
Digital collections by resources, specialties, disciplines, institutions, & audiences
Principles of organization for digital collections
Context, content, and users’ considerations
Design and development considerations
Technical specifications

Module 2: The Digitization Process
Audiences, stakeholders, and partners
Collection development and project planning
Digitization projects
The digital preservation processes
Selection of materials
Metadata standards associated with digital collection development
Metadata best practices and examples

Module 3: Doing the Work
The digital preservation processes
Information architecture
Preparation of materials
Equipment reviews and selections
Hardware and software selections
Quality control

Module 4: Presentation, Evaluation, Promotion
User Interfaces
Information-Seeking Behavior and the User Experience
Users, personas, and needs
Information-seeking behavior
User experience
Assessment, Usability, Accessibility, Findability, Evaluation

Module 5: Digital Content Management Systems – Packaged
Digital content management system selection
Open-source vs. subscription-based options
Related tools for content management

Module 6: Contentdm

Module 7: Digital Content Management Systems – Open-Sourced
Digital content management system selection
Open-source vs. subscription-based options
Related tools for content management

Module 8: Omeka

Projects
The course contains four projects, intended to ignite learning and help students apply the course materials to a project-based experience. These projects bridge theory and practice, so students
will connect their course readings with real-world problems and challenges. These projects will assess understanding of key course concepts. These assignments are intended to provide hands-on practice and assess technical comprehension and competence.

Prior to assignment, each student should complete the required readings and viewings. A total of 100 points is possible.

- Project 1: Review of Two Digital Collections and Digital Objects (25 Points)
- Project 2: Planning and Guidelines for Digital Collections (25 Points)
- Project 3: Personal Digital Object Collection – Contentdm (25 Points)
- Project 4: Organizational Digital Object Collection – Omeka (25 Points)

Please see “LIS S651 Topics and Projects”, under “Files” on Canvas, for more information and guidelines about the projects.

Summaries
Since your projects will only be seen by me, I would like you to summarize/abstract them for the rest of the class. There will be a discussion in 4 of the modules where you will put them. More information about the summaries will be found in “LIS S651 Topics and Projects”, under “Files” on Canvas, for more information and guidelines about the projects.

Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>100 % to 96.0% Outstanding achievement. Student performance demonstrates full command of the course materials and evinces a high level of originality and/or creativity that far surpasses course expectations.</td>
</tr>
<tr>
<td>A-</td>
<td>95.9 % to 90.0% Excellent achievement. Student performance demonstrates thorough knowledge of the course materials and exceeds course expectations by completing all requirements in a superior manner.</td>
</tr>
<tr>
<td>B+</td>
<td>89.9 % to 87.0% Very good work. Student performance demonstrates above-average comprehension of the course materials and exceeds course expectations on all Modules as defined in the course syllabus.</td>
</tr>
<tr>
<td>B</td>
<td>86.9 % to 84.0% Good work. Student performance meets designated course expectations, demonstrates understanding of the course materials, and performs at an acceptable level.</td>
</tr>
<tr>
<td>B-</td>
<td>83.9 % to 80.0% Marginal work. Student performance demonstrates incomplete understanding of course materials.</td>
</tr>
<tr>
<td>C+ through C-</td>
<td>Unsatisfactory work. Student performance demonstrates incomplete and inadequate understanding of course materials. An incomplete may be granted under special circumstances.</td>
</tr>
<tr>
<td>C-</td>
<td>79.9 % to 70.0%</td>
</tr>
</tbody>
</table>


### Expectations, Guidelines, and Policies

#### Attendance

The course will be taught entirely online including web-based readings and resources, threaded discussions, plus online presentations and activities.

This course assumes that students can work independently. There are no required face-to-face meetings. There are no required synchronous online meetings. However, students are encouraged to e-mail or arrange an online chat with the instructor at any time.

A basic requirement of this course is that you will participate in all class activities and conscientiously complete all required course assignments. Students are expected to complete the projects on time, which is your attendance.

#### Incompletes

Incompletes are only available when unexpected events prevent completion of the course requirements in the usual time frame. No student with multiple incompletes may register for additional courses. Left unchanged, an Incomplete automatically becomes an F after one year. See: [IUPUI Registrar: Grade of Incomplete](registrar.iupui.edu/incomp.html)

#### Deliverables

You are responsible for completing each deliverable (e.g., Module) by its deadline and submitting it by the specified method. Deadlines and submission instructions are outlined in the syllabus or in supplementary documents accessible through Canvas. In fairness to the instructor and students who completed their work on time, a grade on a deliverable shall be reduced 10%, if it is submitted late and a further 10% for each 24-hour period it is submitted after the deadline.

#### Your Questions, Concerns, and Comments

Please do not hesitate to contact the instructor directly via Canvas mail with any questions. If needed, the instructor will also use Canvas Announcements to notify the entire group (e.g., syllabus change, instructor availability, etc.).

If you have problems accessing Canvas, please contact the University Information Technology Services (UITS) Support Center at 317-274-HELP. All course Announcements will be found in Canvas along with the course schedule, assignments, and other course documents.
MLS PROGRAM OUTCOMES

The Master of Library Science (M.L.S.) program prepares students to become reflective practitioners who connect people and communities with information. Upon completion of the M.L.S. program, graduates are prepared to meet the program outcomes.

See M.L.I.S. Program goals: (soic.iupui.edu/lis/master-library-science/learning-outcomes/)

ALA MLS COMPETENCIES

A person graduating from an ALA-accredited master’s program in library and information studies should know and, where appropriate, be able to meet the ALA standards.

See: ALA Core Competences of Librarianship
(www.ala.org/educationcareers/sites/ala.org.educationcareers/files/content/careers/corecomp/corecompetences/finalcorecompstat09.pdf)

CODE OF CONDUCT

All students should aspire to the highest standards of academic integrity. Using another student’s work on an assignment, cheating on a test, not quoting or citing references correctly, or any other form of dishonesty or plagiarism shall result in a grade of zero on the item and possibly an F in the course. Incidences of academic misconduct shall be referred to the Department Chair and repeated violations shall result in dismissal from the program.

All students are responsible for reading, understanding, and applying the Code of Student Rights, Responsibilities and Conduct and in particular the section on academic misconduct. Refer to The Code of Student Rights (studentcode.iu.edu/)

All students must also successfully complete the Indiana University Department of Education “How to Recognize Plagiarism” Tutorials and Tests (www.indiana.edu/~academy/firstPrinciples/)

You must document the difference between your writing and that of others. Use quotation marks in addition to a citation, page number, and reference whenever writing someone else’s words (e.g., following the Publication Manual of the American Psychological Association). To detect plagiarism instructors apply a range of methods.

Academic Misconduct

1. **Cheating:** Cheating is considered to be an attempt to use or provide unauthorized assistance, materials, information, or study aids in any form and in any academic exercise or environment.

   1. A student must not use external assistance on any “in-class” or “take-home” examination, unless the instructor specifically has authorized external assistance.
This prohibition includes, but is not limited to, the use of tutors, books, notes, calculators, computers, and wireless communication devices.

2. A student must not use another person as a substitute in the taking of an examination or quiz, nor allow other persons to conduct research or to prepare work, without advanced authorization from the instructor to whom the work is being submitted.

3. A student must not use materials from a commercial term paper company, files of papers prepared by other persons, or submit documents found on the Internet.

4. A student must not collaborate with other persons on a particular project and submit a copy of a written report that is represented explicitly or implicitly as the student’s individual work.

5. A student must not use any unauthorized assistance in a laboratory, at a computer terminal, or on fieldwork.

6. A student must not steal examinations or other course materials, including but not limited to, physical copies and photographic or electronic images.

7. A student must not submit substantial portions of the same academic work for credit or honors more than once without permission of the instructor or program to whom the work is being submitted.

8. A student must not, without authorization, alter a grade or score in any way, nor alter answers on a returned exam or assignment for credit.

2. **Fabrication:** A student must not falsify or invent any information or data in an academic exercise including, but not limited to, records or reports, laboratory results, and citation to the sources of information.

3. **Plagiarism:** Plagiarism is defined as presenting someone else’s work, including the work of other students, as one’s own. Any ideas or materials taken from another source for either written or oral use must be fully acknowledged, unless the information is common knowledge. What is considered “common knowledge” may differ from course to course.
   1. A student must not adopt or reproduce ideas, opinions, theories, formulas, graphics, or pictures of another person without acknowledgment.
   2. A student must give credit to the originality of others and acknowledge indebtedness whenever:
      1. directly quoting another person’s actual words, whether oral or written;
      2. using another person’s ideas, opinions, or theories;
      3. paraphrasing the words, ideas, opinions, or theories of others, whether oral or written;
      4. borrowing facts, statistics, or illustrative material; or
      5. offering materials assembled or collected by others in the form of projects or collections without acknowledgment.

3. **Interference:** A student must not steal, change, destroy, or impede another student’s work, nor should the student unjustly attempt, through a bribe, a promise of favors or threats, to affect any student’s grade or the evaluation of academic performance. Impeding another student’s work includes, but is not limited to, the theft, defacement, or mutilation of resources so as to deprive others of the information they contain.

4. **Violation of Course Rules:** A student must not violate course rules established by a department, the course syllabus, verbal or written instructions, or the course
materials that are rationally related to the content of the course or to the enhancement of the learning process in the course.

5. **Facilitating Academic Dishonesty:** A student must not intentionally or knowingly help or attempt to help another student to commit an act of academic misconduct, nor allow another student to use his or her work or resources to commit an act of misconduct.

**OTHER POLICIES**

1. **Administrative withdrawal:** A basic requirement of this course is that students complete all required course activities. If a student is unable to attend, participate in, or complete an assignment on time, it is the student’s responsibility to inform the instructor. If a student misses more than half of the required activities within the first 25% of the course without contacting the instructor, the student may be administratively withdrawn from this course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and a student who has been administratively withdrawn from a course is ineligible for a tuition refund. Contact the instructor with questions concerning administrative withdrawal. Learn more at [IUPUI Administrative Withdrawal Policy](iupui.edu/withdrawal-policy.html)

2. **Civility:** To maintain an effective and inclusive learning environment, it is important to be an attentive and respectful participant in all course exercises. IUPUI nurtures and promotes “a campus climate that seeks, values, and cultivates diversity in all of its forms and that provides conditions necessary for all campus community members to feel welcomed, supported, included, and valued” (IUPUI Strategic Initiative 9). IUPUI prohibits “discrimination against anyone for reasons of race, color, religion, national origin, sex, sexual orientation, marital status, age, disability, or veteran status” (Office of Equal Opportunity). Profanity or derogatory comments about the instructor, fellow students, invited speakers, or any members of the campus community shall not be tolerated. A violation of this rule shall result in a warning and, if the offense continues, possible disciplinary action.

3. **Communication:** For online courses, the instructor or teaching assistant should respond to emails within two Indiana University working days, which excludes weekends and holidays. The instructor should accept appointments for face-to-face, telephone, or teleconferenced meetings, and announce periods of extended absence in advance.

4. **Conferences:** To present research at an academic conference as speaker is commendable and aligns with the educational and research mission of the school and university. However, instructors can only provide accommodations for absences if a student is presenting work, such as a paper or poster, or is supported by a school or campus-level scholarship. The student should request from the instructor accommodation for an absence as soon as possible upon paper, poster, or scholarship acceptance. In the request for accommodation for absence, the student should provide supporting documentation of acceptance as well as confirmation from their mentor or campus sponsor that the presentation is to meet a research, educational, or diversity objective. Permission is granted at the discretion of the instructor. Students should not expect an exception for nonacademic conferences or conferences at which the student is not
presenting as speaker. Travel arrangements should not be made until the student has received permission from the instructor.

5. **Counseling and Psychological Services (CAPS):** Students seeking counseling or other psychological services should contact the CAPS office at 274-2548 or capsindy@iupui.edu. For more information visit the CAPS website (iupui.edu/health-wellness/counseling-psychology/)

6. **Course evaluations:** Course evaluations provide vital information for improving the quality of courses and programs. Students are not required to complete a course or instructor evaluation for any section in which they are enrolled at the School of Informatics and Computing. Course evaluations are completed in Canvas (Course Questionnaire). Course evaluations are open from the eleventh week. Course evaluations are anonymous, which means that no one can view the name of the student completing the evaluation. In addition, no one can view the evaluation itself until after the instructor has submitted the final grades for the course. In small sections, demographic information should be left blank, if it could be used to identify the student.

7. **Disabilities policy:** In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to reasonable accommodations. Please notify the instructor during the first week of class of accommodations needed for the course. Students requiring accommodations because of a disability must register with Adaptive Educational Services (AES) and complete the appropriate AES-issued before receiving accommodations. Students with learning disabilities for which accommodations are desired should contact the Adaptive Educational Services office on campus, and inform the instructor as soon as possible: Adaptive Educational Services (AES) (iupui.edu) 317-274-3241.

8. **Email:** Indiana University uses your IU email account as an official means of communication, and students should check it daily. Although you may have your IU email forwarded to an outside email account, please email faculty and staff from your IU email account.

9. **Emergency preparedness:** Know what to do in an emergency so that you can protect yourself and others. For more information, visit the emergency management website at Protect IU (protect.iu.edu/emergency)

10. **IUPUI course policies:** Several campus policies governing IUPUI courses may be found at IUPUI Course Policies (registrar.iupui.edu/course_policies.html)

11. **No class attendance without enrollment.** Only those who are officially enrolled in this course may attend class unless enrolled as an auditor or making up an Incomplete by prior arrangement with the instructor. This policy does not apply to those assisting a student with a documented disability, serving in an instructional role, or administrative personnel. See Administrative Policy: No Class Attendance without Official Enrollment (iupui.edu/official-enrollment-class-attendance.html)

12. **Religious holidays:** Students seeking accommodation for religious observances must submit a request form to the course instructor by the end of the second week of the semester. For information visit IUPUI Policy on Religious Holidays (registrar.iupui.edu/religious.html).

13. **Right to revise:** The instructor reserves the right to make changes to this syllabus as necessary and, in such an event, will notify students of the changes immediately.
14. **Sexual misconduct:** IU does not tolerate sexual harassment or violence. For more information and resources, visit [Stop Sexual Violence (iu.edu)](http://iu.edu/)

15. **Student advocate:** The Student Advocate assists students with personal, financial, and academic issues. The Student Advocate is in the Campus Center, Suite 350, and may also be contacted at 317 274-4431 or [studvoc@iupui.edu](mailto:studvoc@iupui.edu). For more information visit [Division of Student Affairs](https://studentaffairs.iupui.edu/advocate)

**IUPUI COURSE POLICIES**

A number of campus policies governing IUPUI courses may be found at the following link: [Course Policies](https://registrar.iupui.edu/course_policies.html)

See the [Important Supplement for IUPUI Syllabi](https://studentaffairs.iupui.edu/advocate) (.pdf). A link to this document is also automatically included in each Canvas course as “Syllabus Supplement.” This supplement covers:

- IUPUI Policy on Disability Accommodations
- IUPUI Policy on Religious Holidays
- IUPUI Policy on Academic Integrity
- IUPUI Policy on Sexual Misconduct
- Education and Title VI
- Military Related Personnel Statement
- Two-Step Login (Duo)

**MISSION STATEMENT**

The Mission of IUPUI is to provide for its constituents excellence in

- Teaching and Learning;
- Research, Scholarship, and Creative Activity; and
- Civic Engagement.

With each of these core activities characterized by

- Collaboration within and across disciplines and with the community;
- A commitment to ensuring diversity; and
- Pursuit of best practices.

IUPUI’s mission is derived from and aligned with the principal components—Communities of Learning, Responsibilities of Excellence, Accountability and Best Practices—of Indiana University’s Strategic Directions Charter.

**STATEMENT OF VALUES**

IUPUI values the commitment of students to learning; of faculty to the highest standards of teaching, scholarship, and service; and of staff to the highest standards of service. IUPUI
recognizes students as partners in learning. IUPUI values the opportunities afforded by its location in Indiana’s capital city and is committed to serving the needs of its community. Thus, IUPUI students, faculty, and staff are involved in the community, both to provide educational programs and patient care and to apply learning to community needs through service. As a leader in fostering collaborative relationships, IUPUI values collegiality, cooperation, creativity, innovation, and entrepreneurship as well as honesty, integrity, and support for open inquiry and dissemination of findings. IUPUI is committed to the personal and professional development of its students, faculty, and staff and to continuous improvement of its programs and services.