

Library Teaching Menu

PUBLIC DRAFT UPDATED AUGUST 31, 2026

The Carnegie Mellon University Libraries support university instructors in many ways. Below are the instructional services we offer including materials of interest to instructors looking to support student learning. These services are designed to assist you in planning your courses and reflect the different pedagogical offerings from the Libraries.

Our library instructors maintain a wide variety of digital and technological skills, and in-depth knowledge of such topics as copyright and publishing, data use and analysis, open science practices, the use of AI in the student research lifecycle, teaching AI literacy, and recommended research methods. The options below are designed to connect you with that knowledge and expertise. We recognize that university instructors are often tasked with teaching many of these topics within their courses and we are open to supporting your course in a number of ways including direct guest instruction, designing collaborative pedagogical materials, creating videos, helping design assignments, or in other ways that may be useful.

Short Workshops

Short workshops are 1-2 hour sessions designed to teach students, staff, or faculty (or a mixture of these) about a variety of topics. These are often taught by library employees, but occasionally involve guest instructors from the community or industry, and are organized as a Workshop Series each semester. If you are an instructor and would like to have us come give the workshop to your class, we are happy to do that as well (see [Invited Instruction Sessions in Classrooms](#)).

Examples of workshop topics include: *Data Visualization with Tableau and Power BI, Data Management Tips and Tricks to Organize your Research, Getting Started with Zotero, Participatory Design for Researchers, Intro to Arts x Entrepreneurship, Advanced Literature Review Methods, Research Software Engineering, Prototyping Digital Projects, Patent/Prior Art Searching, Digital Project Management, Introduction to Python for Data Science, AI Prompt Engineering, and many more!*

How do they work? For the Workshop Series, workshops are offered throughout the semester both virtually and in-person. Anyone can sign up to attend.

Want to learn more or register for a workshop? Check out [the calendar](#).

Workshop Series

Workshop series refer to a set of related workshops that seek to build competencies through sequential learning experiences. The series may be scaffolded, building increasingly deeper knowledge of a specific skill over time (e.g., the multi-part workshops on R and RStudio), or they may present a less structured pathway toward increasing one's breadth of skills across a broader topic area (e.g., the workshop series on communicating with data). These workshops often focus on helping learners develop skills or knowledge around digital, data, AI, or information literacies.

Examples of workshop series include: *Communicating with Data; Research with Community; Advanced Literature Reviews; AI in Research; Research Software Engineering*

How do they work? These workshop series occur over 2 or more sessions, each lasting 1-2 hours.

Anyone from CMU (or the Pittsburgh community) can sign up to attend.

Want to learn more? You'll find all of our workshop series currently being offered in [the workshop calendar](#).

Invited Instruction Sessions in Classrooms and Labs

Library instructors are happy to come into your classroom to support your teaching during a course. These sessions can be set at any specific length that fits with your needs for supporting your students' learning during class time. Visits can also be made to labs to deliver customized instructional sessions for student and staff researchers. Library instructors can address basic research skills (such as citation management, literature review, accessing library resources), various digital, AI, and emerging literacies (software instruction, etc), and other disciplinary-specific, specialized topics. These instruction sessions are planned or designed in partnership between you and library instructors.

Previous Examples: Accessing library resources and services, Finding and evaluating information resources, Finding and working with data, Conducting a literature review, Effective and responsible use of AI for literature searching, Secondary market research, Competitive intelligence, etc. Usually these instruction sessions focus intensely on one or two topics and can be designed to address a specific course assignment.

How do they work? Library instructors come into your class for a set period of time (typically half an hour to a whole class period or multiple sessions) and provide a short lecture, with the option of an exercise to familiarize students with a specific topic or area of library support.

Want to learn more or request an in course instruction session?

You can contact an instructor in a couple ways:

1. Find a potential instructor through one of their workshop registration pages, and send them an email.
2. Consult with a library instructor who can work with you to design a custom session, or connect you with an instructor with the needed expertise. See the Library Instructors section below for more information or get in touch with [your designated librarian](#).

Course Guides

[Course Guides](#) are developed by or in collaboration with library faculty and staff and highlight useful resources and recommended practices for a given subject area or topic. These can easily be embedded into Canvas or serve as a stand-alone accessible resource for students.

Examples of Course Guides include: [English 76-434: Literature and Social Change in the 19th Century](#), [Biological Sciences: 03-201: Undergraduate Colloquium for Sophomores](#), [Business: 70-481: Marketing Research](#)

Want to learn more or request collaboration on a course?

Contact [your designated librarian](#) to request a Course Guide for your class.

Full Courses (mini or full semester)

Full courses are full-semester (9 credits) or mini courses (6 credits) offered by faculty at the CMU Libraries. These courses often relate to learning goals for core competencies and skills that all students regardless of their discipline should be familiar with prior to graduation. Examples of these courses can be found below. These courses are either independently designed by library faculty and hosted within a department or major, or designed with faculty from a specific department to benefit the development of pedagogy that meets learning objectives for their field.

Examples of full courses include:

- **Music:** 57901 Music Research Methods (3 credits, Fall)
- **IDeATe:** 99363 IDeATe: Spatial Storytelling (6 credits, Spring)
- **Statistics & Data Science:** 36204 Discovering the Data Universe (3 credits, no set semester);
99520 Understanding Generative AI Literacy Development: Systematic Review Research (9 units, Summer)

Want to learn more or request collaboration on a course?

Contact [your designated librarian](#) to learn more about current offerings of full courses.

Instructional Videos & Tutorials

The University Libraries provides tutorials and other videos on our YouTube site (see links below). These videos explain core information and data literacy topics and tools like citation management and data management, and walk through some of our processes and services. Most of the videos are short, between five and thirty minutes, and can be used to support your courses. In addition, some workshops offered through the Libraries' Workshop Series have been recorded and are made available through the YouTube channel. We can work with university instructors to integrate videos into courses or record new videos on request. For new video requests, please allow sufficient time for us to receive the request, plan the content, and produce the video (typically 2 weeks to 1 month, depending on length and depth of content). Sample YouTube playlists are shown below. To request a video, get in touch with [your designated librarian](#) or one of [our data and digital specialists](#).

[Pixel Datascape Series Playlist](#)

Pixel Datascape was a show dedicated to all the data management lessons we can learn from video games!

[Libraries "How To..." Playlist](#)

"How to..." Playlists are short video tutorials on how to use the Libraries' collections and services such as requesting books or digital scans of print items.

[Library Orientation Playlist](#)

Learn how to use library resources with our orientation videos.

Interactive Modules in Canvas and OLI

The Libraries has developed a number of Canvas and Open Learning Initiative (OLI) modules that can be easily adapted into an existing Canvas course. We are also happy to develop custom modules for your course. In addition, [Sage Campus](#), a resource with many course offerings related to social sciences research methods, scholarly publishing, data and coding skills, and more, is integrated with Canvas and modules can easily be added to any course. See [this document](#) to learn more about integrating Sage Campus content.

Examples of interactive modules:

- **[How to Open: A Starter Kit for Open Research](#)**
An accessible and interactive introduction to the principles and practices of open and reproducible research, including reproducibility in experimental and computational contexts, research data management, and sharing data.
- **Introduction to Research Databases**
A brief interactive introduction to accessing library-licensed databases and conducting searches in Web of Science, an interdisciplinary database. Contact Melanie Gainey (mgainey@andrew.cmu.edu) for access to the OLI module.
- **[CMU Libraries Data & Code Support Canvas Module](#)**
This brief Canvas module provides students with easy access to Libraries services and resources related to data and code support, such as pointing to online learning resources, setting up a consultation with a member of our data and code support team, and attending open workshops on data and code. Follow these [instructions](#) to access it from your Canvas account and import it into your course sites.

Want to learn more or request a custom built module? Contact [your designated librarian](#) to learn more about interactive modules in Canvas and OLI.

Licenses to Educational Tools

While the University Libraries provides in-person or asynchronous instruction sessions, additional support for student learning and research is available via licenses to software and subscriptions used to support instruction. We offer access to training materials to ensure that students, faculty and staff get the most out of their experience with the tool. Licenses often include custom vendor support on how to use these platforms in your classrooms.

Examples of Educational Tools include: [LabArchives Education Edition](#) (an electronic research notebook for storing data and documenting research), [JoVE](#) (*Journal of Visualized Experiments*) (short engaging videos of experiments and research methods and accompanying step-by-step protocols), [Sage Campus](#) (a collection of short courses on a variety of data analysis and research skills), [Dataquest](#) (self-paced courses on R, Python, SQL and more).

In addition to these tools, the Libraries pays for licenses to many other [databases and tools](#), including [AI-supported tools](#) like Consensus, Keenious and scite.ai, for finding texts and resources that may be useful for your course. For more information, contact the Outreach for Library Teaching and Learning group (lib-olibtel@lists.andrew.cmu.edu).

Want to learn more or request access to a license or software?

To take advantage of our LabArchives Education Edition license, please see our [quick start guide](#). You can also request a 1:1 consultation with LabArchives by contacting Melanie Gainey (mgainey@andrew.cmu.edu) to better understand customized options for using LabArchives in your classroom.

To explore options for integrating JoVE into your courses, you can look at the [JoVE Faculty Resource Center](#). You can also contact customersuccess@jove.com to request a free syllabus mapping of JoVE videos to your course.

Library Instructors

Library instructors are committed to creating a cohesive learning environment for CMU students and look forward to working with other instructors in the CMU community. Our instructors can offer consultations on developing pedagogy for specific topics.

- Get in touch with a [departmental librarian](#).
- To find a library instructor that specializes in data management, data visualization, or other specialized types of data research, visit our [Data Services](#) page.
- To request instructional assistance for a first-year writing course (76-10X), please contact Ashley Werlinich (awerlini@andrew.cmu.edu) or Charlotte Kiger Price (charlotteprice@cmu.edu).

If you need any support or have questions regarding this document, please contact the Outreach for Library Teaching and Learning group (lib-olibtel@lists.andrew.cmu.edu).