Foundational Research Modules

Throughout the year, Bass Connections, in partnership with campus partners and the Office of Undergraduate Research Support, will offer research modules designed to provide students (undergraduate and graduate) with foundational knowledge in research practices. Sessions will run for 60 to 90 minutes and will be held via Zoom. Some sessions will include a mix of synchronous and asynchronous content. These sessions are open to all Duke students, staff and faculty (you do not have to be a member of a Bass Connections team to participate).

Please register for one or more sessions to receive the Zoom link.

Fall 2021 Modules

Institutional Review Board (IRB)

**Date:** Friday, August 27 (11:45-1:00)

**Topics:** In this session, the Duke Campus IRB will introduce participants to the IRB process.

- What is human subjects research and what is the role of the IRB?
- When is the IRB process needed and when should researchers use the campus IRB vs. Duke Health IRB?
- What are the ethical considerations when doing human subjects research?
- How does the IRB process work and how long does it take?

This course will satisfy the Human Subjects Certification which is required for any researcher conducting human subjects research.

Project Planning and Communication for Teams

**Date:** Friday, September 3 (12:00-1:30)

**Topics:** Bass Connections will provide tips and best practices for managing complex, team-based projects.

- Project scoping
- Project charters and project planning
- Working on teams
- Communicating within teams

Literature Reviews

**Date:** Friday, September 10 (12:30-2:00)

**Topics:** Duke Libraries will provide guidance on how to conduct a literature review.
• What is a literature review?
• How do you do one?
• What makes a good source?
• General search strategies
• Choosing a citation management software
• Using subject area librarians

Documentation and Stuff Management

Date: Friday, September 24 (12:00-1:30)

Topics: The Duke Center for Data and Visualization Sciences will share best practices for documenting and organizing research materials for teams.

• Shared folders
• File naming conventions
• Data management tools
• Managing data for sharing and reproducibility
• Types of documentation (readme files, research notebooks, and documenting for future use)

Qualitative Research Design

Date: Friday, October 8 (11:45-1:15)

Topics: The Duke Social Science Research Institute will introduce qualitative research methods and practices.

• When should you use qualitative research?
• Developing an interview/focus group instrument
• Conducting focus groups
• Conducting interviews
• Note taking, transcription and coding (in brief; see later session on analysis)

Survey Design

Date: Friday, October 29 (11:45-1:15)

Topics: The Duke Social Science Research Institute will introduce best practices in survey design.

• When should you use surveys?
• Survey design
• Survey administration
• Avoiding survey bias
Data Analysis and Workflow Management

Date: Friday, November 5 (12:30-2:00)

Topics: The Duke Center for Data and Visualization Sciences will provide tips for organizing and analyzing data.

- Finding and using existing data sources
- Data normalization and cleaning
- Documenting your code
- Data management for group consumption
- Open refine and data producibility
- Understanding what R is and when it can be useful

Community Engaged Research

Date: Friday, November 12 (11:45-1:15)

Topics: The Duke Social Science Research Institute will share best practices for community engaged research.

- Why to conduct community engaged research
- Developing reciprocal partnerships
- Ethical engagement
- Understanding and respecting local context
- Stakeholder engagement and management

Spring 2022 Modules

Exact dates and times for the spring modules will be announced in the winter.

Analyzing Qualitative Research Data (Including Using NVivo)

Date: mid-January TBD (90 minutes)

Topics: The Duke Social Science Research Institute will introduce qualitative coding, with a focus on NVivo, a software for coding qualitative research data.

- What is qualitative analysis?
- How do you develop and apply coding?
- What is NVivo and how do you get it?
- How to use it
**Data Visualization**

**Date:** late January TBD (60 minutes)

**Topics:** The Duke Center for Data and Visualization Sciences will introduce tips for communicating using data visualizations.

- Guidelines for effective data visualization
- Pitfalls to avoid
- Visualization tools and methods

**Creating Compelling Research Posters**

**Date:** late March TBD (60 minutes)

**Topics:** The Duke Center for Data and Visualization Sciences will introduce tips for creating a great research poster.

- Best practices in communicating research findings
- Research poster design
- Appropriate use of text and images

**Other Resources**

If you can’t make a training above, or want supplemental resources, check out:

- [Duke Center for Data and Visualization Sciences Workshops](#)
- [Duke DS+ (Data Science+) Trainings](#)
- [Duke Libraries Research Support](#)
- [Mod•U (online modules from the Duke Social Sciences Institute)](#) (see [index of all modules](#))
- [Project Management Modules from Duke Libraries & Bass Connections](#)