

Introductory

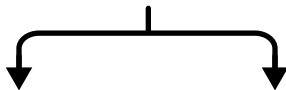
**Introduction
to data science**

- Definitions
- Uses in discipline



**Practice
with tools**

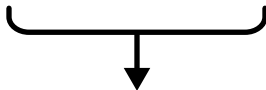
- Data manipulation
- Data visualization
- Statistics



**Apply tools
to public data**

**Apply tools
to course data**

- Discipline-specific
- Messy, imperfect data
- Novel findings



**Communicate
results**

- Scholarly reports
- Peer-reviewed articles
- Symposium presentations

Advanced