## Module 1 (Introduction & Background to Reproducible Research with Jupyter Notebooks. By the end of this module, you should be able to:

Understand the concept, importance, and components of reproducible research
O Define reproducible research.
Name and describe the four facets of reproducible research.
Explain why reproducible research is important for the research community.
List three ways that implementing reproducible practices can benefit your own research.
Understand strengths of Jupyter Notebooks as a tool for reproducible research.
<ul> <li>Name and describe the components of a Jupyter notebook and how they interact.</li> </ul>
Explain the concept of a Jupyter ecosystem.
List five strengths of using Jupyter notebooks for conducting reproducible research.
Create and navigate through a Jupyter notebook containing markdown and code cells.
Use tabs and keyboard shortcuts to run cells and format text within cells.
<ul> <li>Create a markdown cell including headers, lists, embedded code, LaTeX equations, and HTML.</li> </ul>
Understand the function of a kernel, manage & interrupt a kernel if necessary.
Access the broader Jupyter community.
List three resources (online or local) you can use as you develop your Jupyter/Python research project.