



The U.S. National Science Foundation Cyberinfrastructure Center of Excellence

CI Compass Fellowship Program

Syllabus for the 2024 Spring Virtual Training Program

Week	Tuesday	Thursday
Week 1	Major Facilities, Cyberinfrastructure, and the Data Life Cycle	The Command Line
Week 2	Scientific Computing: An Overview	Guest Speaker from TACC
Week 3	Scientific Computing: Python and Jupyter Notebooks	FAIR Data
Week 4	Best Practices in Software Development, Part 1	Guest Speaker from MagLab
Week 5	Best Practices in Software Development, Part 2	MF/DLC Research Project Group Work
Week 6	Cloud Computing, Part 1	Guest Speaker from ORCID
Week 7	Cloud Computing, Part 2	Guest Speakers from NEON and OOI
Week 8	Spring Break	Spring Break
Week 9	Software Architecture and Systems; Digital Archives	MF/DLC Research Project Group Work
Week 10	Data Workflows	Professional Communications and Networking Skills
Week 11	Machine Learning (Classical)	Neural Networks
Week 12	Research Project Group Presentation Day 1	Research Project Group Presentations Day 2

The **Technical Skills Component** is highlighted in blue, and the **Data Life Cycle Component** is highlighted in green.



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