All 2023 SISMID courses will be offered in-person only at the University of Washington Seattle campus.

Each SISMID course is 2.5 days. Participants may take only one SISMID course at a time.

For courses that start on **Monday**, the tentative times are (all times Pacific Daylight Time):

- 8:30 a.m.-5 p.m. Monday
- 8:30 a.m. -5 p.m., Tuesday
- 8:30 a.m. - Noon, Wednesday

For courses that start on **Wednesday**, tentative times are (all times Pacific Daylight Time):

- 1:30-5 p.m., Wednesday
- 8:30 a.m. – 5 p.m., Thursday
- 8:30 a.m. – 5 p.m., Friday

**Course Schedule (as of 12-1-22)**

*Module descriptions for 2023 will be available in January. Descriptions from 2022 are available through the Summer Institutes Archives at [https://si.biostat.washington.edu/archives](https://si.biostat.washington.edu/archives)*

**Monday, July 10 – Wednesday, July 12, 2023**

**Module 1: Probability and Statistical Inference** (Register for module through SISG)
Instructors: Sarah Anoke, Twitter; Zoe Moodie, Fred Hutchinson Cancer Center

**Module 2: Mathematical Models of Infectious Diseases**
Instructors: Micaela Martinez, Emory University; Matt Ferrari, Pennsylvania State University

**Module 3: Introduction to R** (Register for module through SISG)
Instructors: Ken Rice, University of Washington; Ting Ye, University of Washington
Wednesday, July 12 – Friday, July 14, 2023

Module 4: Module 16: Evolutionary Dynamics and Molecular Epidemiology of Viruses
Instructors: Julia Palacios, Stanford University; Nicola Mueller, Fred Hutchinson Cancer Center

Module 5: Stochastic Epidemic Models with Inference
Instructors: Tom Britton, Stockholm University; Ira Longini Jr., University of Florida

Module 6: Contact Network Epidemiology
Instructors: Shweta Bansal, Georgetown University; Thomas Hladish, University of Florida; Joel Miller, La Trobe University

Monday, July 17 – Wednesday, July 19, 2023

Module 7: Reconstructing Transmission with Genomic Data
Instructors: Caroline Colijn, Simon Fraser University; Jessica Stockdale, Simon Fraser University

Module 8: MCMC I for Infectious Diseases
Instructors: Kari Auranen, University of Turku; M. Elizabeth Halloran, University of Washington, Fred Hutchinson Cancer Center; Vladimir Minin, University of California, Irvine

Module 9: Spatial Statistics in Epidemiology and Public Health
Instructors: Jonathan Wakefield, University of Washington; Lance Waller, Emory University

Module 10: Infectious Diseases, Immunology and Within-Host Models
Instructors: Andreas Handel, University of Georgia; Paul Thomas, St. Jude’s Research Hospital

Wednesday, July 19- Friday, July 21, 2023

Module 11: MCMC II for Infectious Diseases
Instructors: Theodore Kypraios, University of Nottingham; Philip O’Neill, University of Nottingham

Module 12: Pathogen Evolution, Selection, and Immunity
Instructors: Trevor Bedford, Fred Hutchinson Cancer Center; Sarah Cobey, University of Chicago

Module 13: Statistics and Modeling with Novel Data Streams
Instructors: Mauricio Santillana, Northeastern University, Harvard University; Alessandro Vespignani, Northeastern University

Monday, July 24 – Wednesday, July 26, 2023

Module 14: Simulation-Based Inference for Epidemiological Dynamics
Instructors: Aaron King, University of Michigan; Edward Ionides, University of Michigan

Module 15: Microbiome Data Analysis
Instructors: Alexander Alekseyenko, Medical University of South Carolina; Paul McMurdie, D2G Oncology

Module 16: Causal Inference
Instructors: Michael Hudgens, University of North Carolina, Chapel Hill; Thomas Richardson, University of Washington.