All 2023 SISG courses will be offered in-person only at the University of Washington Seattle campus, except for Module 17: Forensic Genetics, which will be offered online only.

Each SISG course is 2.5 days. Participants may take only one SISG 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

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 Research Center

Module 2: Introduction to Genetics and Genomics:
Instructors: Greg Gibson, Georgia Institute of Technology; Joseph LaChance. Georgia Institute of Technology

Module 3: Introduction to R (Register for module through SISG)
Instructors: Ken Rice, University of Washington; Ting Ye, University of Washington

Module 4: Fundamentals of Population Genetics
Instructors: Dahlia Nielsen, North Carolina State University; Nadia Singh, University of Oregon
Wednesday, July 12 – Friday, July 15, 2023

Module 5: Regression Methods: Concepts & Applications
Instructors: Rebecca Hubbard, University of Pennsylvania; Xu Shi, University of Michigan

Module 6: Gene Expression Profiling
Instructors: Greg Gibson, Georgia Institute of Technology; Peng Qiu, Georgia Institute of Technology

Module 7: Applications of Population Genetics
Instructors: Ryan Hernandez, University of California, San Francisco; Timothy O'Connor, University of Maryland

Monday, July 17 – Wednesday, July 19, 2023

Module 8: Statistical Genetics
Instructors: Jérôme Goudet, University of Lausanne; Bruce Weir, University of Washington

Module 9: Quantitative Genetics
Instructors: Guilherme Rosa, University of Wisconsin-Madison; Bruce Walsh, University of Arizona

Module 10: MCMC for Genetics
Instructors: Eric Anderson, National Marine Fisheries Service; Matthew Stephens, University of Chicago

Wednesday, July 19- Friday, July 21, 2023

Module 11: Genetic Epidemiology
Instructors: Burcu Darst, Fred Hutchinson Cancer Research Center; Sara Lindstroem, University of Washington

Module 12: Mixed Models in Quantitative Genetics
Instructors: Guilherme Rosa, University of Wisconsin-Madison; Bruce Walsh, University of Arizona

Module 13: Bayesian Statistics for Genetics
Instructors: Ken Rice, University of Washington; Jonathan Wakefield, University of Washington

Module 14: Advanced Quantitative Genetics
Instructors: Peter Visscher, University of Queensland; Loic Yengo, University of Queensland

Monday, July 24 – Wednesday, July 26, 2023

Module 15: Association Mapping: GWAS and Sequencing Data
Instructors: Joelle Mbatchou, Regeneron Genetics Center; Loic Yengo, University of Queensland

Module 16: Pathway & Network Analysis for Omics Data
Instructors: Alison Motsinger-Reif, NIEHS Division of Intramural Research; Ali Shojaie, University of Washington

Module 17: Forensic Genetics – ONLINE ONLY (time schedule tbd)
Instructors: Sanne Aalbers, University of Washington; Bruce Weir, University of Washington

Wednesday, July 26- Friday, July 28, 2023

Module 18: Computational Pipeline for WGS Data
Instructors: Matthew Conomos, University of Washington; Laura Raffield, University of North Carolina, Chapel Hill; Ken Rice, University of Washington

Module 19: Multivariate Analysis for Genetic Data
Instructors: Jan Graffelman, Technical University of Catalonia