

# SISG Module 19: Forensic Genetics

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**Website:** <https://si.biostat.washington.edu/courses/SM2219>

**Slack:** <https://uwbiostatisticssisg.slack.com>

**Zoom link:** <https://washington.zoom.us/j/92052477546>

## Overview

This module consists of a series of interactive lectures that will introduce you to the basic concepts of forensic genetics. You are welcome to download a copy of Evett and Weir's 1998 book: "Interpreting DNA Evidence" from the course website. Some of the material is dated, and some of the statistical treatment has been simplified since then, but the chapters 2 and 9 contain some good background writing by Ian Evett. The publisher returned the copyright to the authors.

Links to slides, Zoom sessions, and other course material will be available on the website and posted on Slack.

## Wednesday, July 27 (US Pacific Time)

11:30-12:20	Intro	Introduction	All
12:20-12:35	Break		
12:35-1:25	Topic 1	STR typing	Mike
1:25-1:40	Break		
1:40-2:30	Topic 2	Probability & likelihood ratios	Bruce

## Thursday, July 28 (US Pacific Time)

8:00-8:50	Topic 3	Allelic independence	Bruce
8:50-9:05	Break		
9:05-9:55	Topic 4	DNA interpretation and modeling	Sanne and Mike
9:55-10:10	Break		
10:10-11:00	Review	Topics 3 and 4 exercises	
11:00-11:30	Break		
11:30-12:20	Topic 5	Population structure and relatedness	Bruce
12:20-12:35	Break		
12:35-1:25	Review	Topic 5 exercises	
1:25-1:40	Break		
1:40-2:30	Topic 6	Reporting likelihood ratios	Sanne and Mike

## Friday, July 29 (US Pacific Time)

8:00-8:50	Topic 7	Y-STR profiles	Bruce
8:50-9:05	Break		
9:05-9:55	Review	Topic 6 and 7 exercises	
9:55-10:10	Break		
10:10-11:00	Topic 8	Incorporating relatives	Sanne
11:00-11:30	Break		
11:30-12:20	Review	Topics 8 exercises	
12:20-12:35	Break		
12:35-1:25	Topic 9	NGS data and other techniques	Sanne and Mike
1:25-1:40	Break		
1:40-2:30	Review	Recap	All