



BIOLOGY AND DNA SERIES

COURSE DESCRIPTION

R257w: Additional STR Topics and Emerging Technologies (Virtual)

Learning Objectives

This 4-day online course is designed for forensic professionals looking to build on the foundational knowledge gained in STR I. The goals of this course are to expand a student’s knowledge base beyond the basics of conventional autosomal STR typing (STR I) and includes addressing challenging samples, understanding various forensic STR workflows, exploring topics integral to these workflows, and an introduction to other forensic DNA testing technologies.

Topics covered include:

- Degraded DNA and Miniplexes
- Identification of Human Remains
- Nonhuman DNA Forensics
- Mutations and Genetic Anomalies
- Low Template and Transfer DNA
- Validation of DNA Techniques
- Sizing Precision

- DNA Databasing
- Court Issues
- Admissibility and Court Decisions
- Forensic use of Y-STRs
- Rapid DNA Technologies
- Familial Searching
- Forensic Applications of Sequencing Technologies
- New STR Megaplexes

Requirements

Applicants must have completed R251 Short Tandem Repeat I prior to enrollment.

Applicants must be employed at a laboratory and/or law enforcement agency performing course related duties. Preference will be given to California public sector employees. Out-of-state applicants will be considered based on availability and tuition fees will apply.