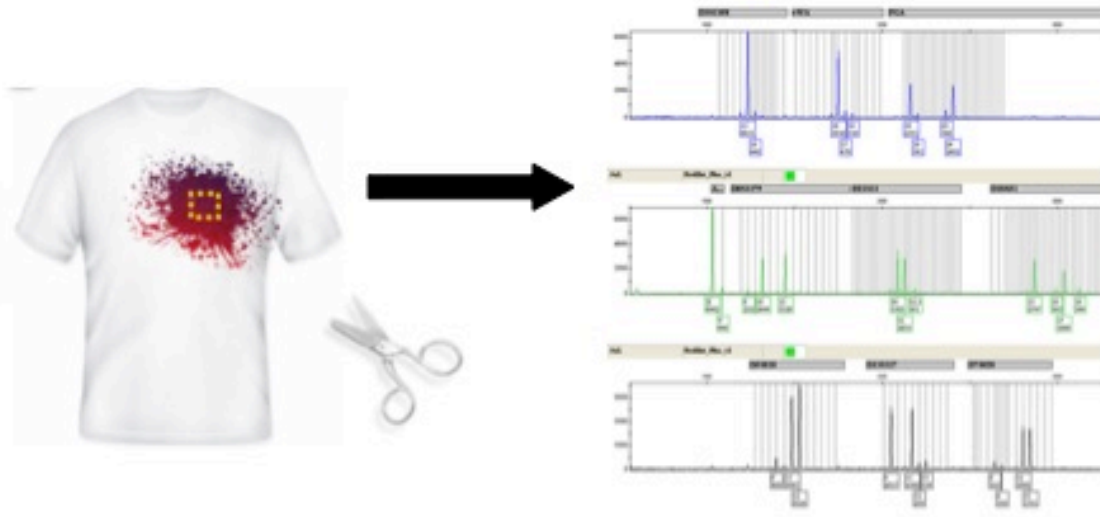


Forensics

BIOL 4902 B



Course Description:

This course will cover topics in molecular biology, biochemistry, genetics, population genetics and statistics as they relate to forensic biology. Students will be provided with an overview of the history of forensic biology. The course will describe the techniques used to identify body fluids and generate DNA profiles including DNA extraction, quantification, amplification and capillary electrophoresis. Statistical analysis for both typical casework DNA profiles as well as kinship analysis will be discussed. Several lectures will be dedicated to the emerging trends in the field including massive parallel sequencing, phenotype DNA profiling and genetic genealogy. Students will be given the opportunity to apply the concepts gained from the lectures to case study examples. In addition, there will be guest lecturers to expose students to other forensic disciplines and provide insight about how forensic evidence is used in the court system.

Offered: Winter 2021 term

Prerequisites: Third or fourth-year standing in a Biology program or permission from the department. BIOL 2104 is strongly recommended.

Instructor: Chris Askew (chris.askew@carleton.ca)