Summer Camp 2012


Meal times
- Breakfast is from 8:00 – 8:45 am each day.
- Lunch is from 12:30 – 1:30 pm each day.
- Dinner is from 6:00 – 7:00 pm each day

Each morning session will have two 15 minute breaks and be devoted to classroom learning.

Each afternoon session will one 30 minute break and be devoted to hands-on laboratory learning.

Sunday
- Room assignment
- Introductions of campers and staff
- Camp rules
- Ice cream social

Monday
- Morning
  1. Introduction to forensic science.
  2. Introduction to DNA and PCR (polymerase chain reaction).
  3. External morphological structure of hair.
- Afternoon
  1. Introduction to equipment and DNA extraction from tissue samples.
  2. Light microscopy of hair scale patterns.
- Evening
  1. Watch and critique an episode of CSI

Tuesday
- Morning
  1. RFLPs – Restriction fragment length polymorphisms.
  2. Internal morphological structure of hair.
- Afternoon
  1. PCR and RFLP identification of unknown tissue samples and gel electrophoresis.
  2. Comparison of the hair internal structure from multiple species.
- Evening
  1. Watch and critique an episode of CSI.
  2. Mock crime scene #1

Wednesday
- Morning
  1. Microsatellite DNA fingerprinting and DNA sequencing.
  2. Scanning electron microscopy.
- Afternoon
  1. PCR and production of microsatellite DNA fingerprints to match samples from tissue.
2. PCR and DNA sequence analysis for species identification from tissue.
3. Comparison of the hair internal structure from multiple species

Evening
1. Mock crime scene #2

Thursday
All Day
1. Process crime scene evidence
2. Work on presentation of evidence

Friday
Morning
1. Continue working on analysis of crime scene data and preparation of data for mock trial presentation.

Afternoon
1. Mock trials.

Evening
1. Check out of dorms.