



Brooks Hall 152
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Summer Camp 2009

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.