

COURSE DESCRIPTION

In this 16 hour course focuses on providing students a better working understanding of analytical chemistry as applied to the forensic lab. Instruction will cover the following topics:

- **Strategies for optimizing analyses**
- **Representative sampling**
- **Significant figures**
- **Difference between precision and accuracy**
- **How to measure and minimize error**
- **Proper calibration practices**
- **Statistics used in chemical analysis**
- **Instrumentation commonly used in forensic labs including gas and liquid chromatography, mass spectrometry and infrared spectroscopy**

The course is devoted to teaching students to improve their understanding and performance in the laboratory. This curriculum will also prepare staff for future in-depth analytical instrumentation and data interpretation training.

**C133 Principles of
Analytical Chemistry**

*California
Criminalistics
Institute*



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