
Grade 12 – Forensic Science Syllabus

[Forensic Science - 931]

Teacher Contact Information

Jennifer Telenko, Huron High School, Room 101

Phone: 419-433-1234 Extension: 1101

Email: jtelenko@huronhs.com

Office Hours: Tuesday and Wednesday: 2:30-3:00 pm, Thursday: 6:50-7:15 am

Course Description

Course content includes:

Forensic science is a high school level course, which satisfies the [Ohio Core](#) science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information.

Forensic science incorporates biology, chemistry, physics and physical geology and introduces students to scientific concepts, processes, and thinking that are the basis for each area of science study. Activities throughout the program stress the scientific method.

Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, prediction and application.

Course Pre-Requisite(s)

Successful completion (C or better) in Chemistry, Honors Chemistry or UF Chemistry. SENIOR only course due to subject matter.

Student Learning Objectives/Outcomes

- Identify questions and concepts that guide scientific investigations;
- Design and conduct scientific investigations;
- Use technology and mathematics to improve investigations and communications;
- Formulate and revise explanations and models using logic and evidence (critical thinking);
- Recognize and analyze explanations and models; and
- Communicate and defend a scientific argument.

Required Textbooks and Materials

- Bertino, Anthony. *Forensic Science: Fundamentals and Investigations*. Canadaigua, New York: South-Western Cengage Learning, 2010. Print.
- Textbook Website: Username and Password required.
<<http://school.cengage.com/forensicscience/>>
- One Spiral notebook or Composition Book
- Loose Leaf paper for Outlines
- Folder with pockets
- Scientific Calculator - Optional
- Other materials may be necessary, however you will be notified in advance

Classroom Materials

Students should bring the following to class with them each day:

- Textbook
- One Spiral notebook or Composition Book
- Loose Leaf paper for Outlines
- Folder with pockets
- Pen/Pencil
- Other Materials as needed

Activities and Assignments

The following is a tentative guideline of the activities and assignments for each quarter. This is subject to change.

First Quarter

- Chapter 1: Observation Skills
- Chapter 2: Crime-Scene Investigation and Evidence Collection
- Chapter 3: The Study of Hair
- Chapter 4: A Study of Fibers and Textiles

Second Quarter

- Chapter 5: Pollen and Spore Examination
- Chapter 6: Fingerprints
- Chapter 7: DNA Fingerprinting
- Chapter 8: Blood and Blood Spatter

Third Quarter

- Chapter 9: Drug Identification and Toxicology
- Chapter 10: Handwriting Analysis, Forgery, and Counterfeiting
- Chapter 11: Death: Meaning, Manner, Mechanism, Cause, and Time
- Chapter 12: Soil Examination

Fourth Quarter

Chapter 13: Forensic Anthropology: What we Learn from Bones

Chapter 14: Glass Evidence

Chapter 15: Casts and Impressions

Chapter 16: Tool Marks

Chapter 17: Ballistics

Assignments are weighted as follows:

- Homework, Worksheets, Study Guides
- Schoology Assignments
- Inquiry Based Experiments and/or Activities
- Capstone Projects
- Formative Assessments
- Mid – Term Summative Assessment
- End of course Summative Assessment
- Information Evaluation Skills
- Your grade in this class will be calculated using weights provided below. A variety of assignments will be given to you. These include tests, quizzes, activities, special projects, and homework.

Test	35%
Chapter Outlines and Notes	10%
Projects - includes participation	20%
Schoology	15%
Chapter Activities – includes participation	15%
Class Conduct/Participation	5%
Total	100%

Academic Policies

A detailed list of classroom expectations and procedures will be given and reviewed on the first day of class.

Classroom Policies

A detailed list of classroom expectations and procedures will be given and reviewed on the first day of class.
