



Northglenn High School
 601 West 100th Place • Northglenn, CO 80260
 Office: (720) 972-4600 • Fax: (720) 972-4739
<http://www.northglennhs.adams12.org>



School Year	2017-2018	Teacher Name	Shauna McClurg
Office	Room 210	Website	www.McClurgScience.com
Phone	720-972-2652	Email Address	Shauna.M.McClurg@adams12.org
School Year	2017-2018	Teacher Name	Shauna McClurg

Course Name		Forensic Science		
Course Description		Forensic science is an integrated science class that will explore concepts in forensic science. Skills from previous science classes will be used to solve problems, investigate cases, and perform laboratory exercises seen in traditional forensic science laboratories. This course will cover the following standards: PS4-1,LS1-1,LS1-3,ETS1-1,ETS1-2,ETS1-3,ETS1-4, S-IC.1,S-CP.2 and S-CP.5		
Unit of Study	Grade Level Expectations/Content Standards	Approx. Time Spent	Targeted Date of Assessment	
Introduction to Forensic Science	Students will document the steps used in pursuing justice. Students will explain how suspects are linked to a crime.	4 weeks	September 15th	
Eyewitness & Types of Evidence	Students will document a crime scene, evidence involved in the crime scene and examine types of evidence.	3 weeks	October 6th	
Fingerprints	Students will identify characteristics of fingerprints and explain how fingerprints can be used as evidence.	2 weeks	October 21st	
Case Study:	Students will examine and analyze a True Crime Case: to be determined.	2 Weeks	November 3rd	
Blood and DNA Evidence	Students will explain how blood evidence is collected, analyzed, and used in a forensics case This unit will focus upon blood typing and spatter and DNA evidence..	5 weeks	December 15th	
Human Remains & Entomology	Students will discuss how human remains are identified, analyzed, and used in a forensic science case.	2 weeks	January 19th	
Soil Analysis	Students will describe how soil samples can be used to link a crime scene with a victim and/or suspect.	1 weeks	January 26th	
Firearms, Toolmarks, and Impressions	Students will learn how impression analysis is used in forensic science, the impact of firearms in the United States, and the importance of microscopic examination in forensic science.	1 week	February 2nd	
Hair &Fiber	Students will document, analyze and explain how to run tests on various types of trace evidence. Students will explain how trace evidence can be linked to a crime scene.	3 weeks	February 23rd	
Drugs	Students will explain how to analyze evidence for traces of drugs. Students will explain consequences of different crimes associated with drugs.	3 weeks	March 16th	
Toxicology: Poisons and Alcohol	Students will explain how to analyze evidence for traces of poisons and discuss different tests used to detect poisons and alcohol.	3 weeks	April 13th	
Glass	Students will analyze and describe how glass fragments can be tested, compared, and linked to a crime scene.	1 weeks	April 20th	
Document and Handwriting	Students will explain how handwriting analysis can be used to create a criminal profile and/or link a suspect to a crime.	1 week	April 27th	
Case Study	Students will examine and analyze a True Crime Case: to be determined.	2 weeks	May 11th	
Final Case	Students will take on various forensic science roles to investigate, analyze, and present evidence.	2 weeks	May 23rd	
NGSS Crosscutting Concepts	Cause and Effect/ Systems and System Models/ Energy and Matter/ Patterns/ Stability and Change/ Scale, proportion and quantity/ Structure and function			
Common core reading, writing & communicating standards	Key ideas and details / Craft and structure / Integration of knowledge and ideas / Range of reading and level of text complexity / Text type and purposes / Production and distribution of writing / Research to build and present knowledge / Range of writing / Comprehension and collaboration / Presentation of knowledge and ideas / Conventions of standard English / Knowledge of language / Vocabulary acquisition and use.			

Grading Scale		Grade Percentages/Weights	
A	90-100	Summative Assessments & Projects	80%
B	80-89	Formative Assessments & Projects	20%
C	70-79	*Weekly progress grades are posted at https://ic.adams12.org/campus/portal/adams12.isp	
D	60-69		
F	59 or below		



General Expectations

- Grades are based upon the demonstration of proficiency on units associated with a standard given during each formative or summative assessment. Formative grades in addition to summative unit assessments will be used to holistically determine your grade.
- **Summative: 80%** Summative measures of achievement are taken when unit master is expected. (i.e., unit tests, culmination of a project, embedded assessments, etc.)
- **Formative: 20%** Formative assessments measure the scaffolding skills and/or content embedded in the unit. Formative assessments are taken frequently, after a student has practiced a skill or become familiar with content. Examples of formative assessments include but are not limited to exit tickets, paragraphs, oral check for understanding, warm-ups, stages in a large project, etc.
- Assessments will be graded based on teacher/district/state rubrics.
- On group projects, students will receive a grade for individual work and a group grade.
- Grades are based on achievement of Content Standards and Grade Level Expectations.

Class Expectations

All class information will be available on the class website: www.McClurgScience.com

Absences, Retakes & Late/Missing Work:

- Students will have the number of days absent plus one for all excused absences. For extended absences, students should make prior arrangements with the teacher.
- Students who have an excused absence for an exam may be required to take an alternative exam and/or take the exam the day they return if the exam. If the absence is unexcused, make-ups will be on case-to-case bases.
- Students who are absent (excused) for a lab will have one week to make up the lab and/or may be required to participate in an alternative activity. If the absence is unexcused, make-ups will be on case-to-case bases.
 - Lab grades are based on completion of pre-lab assessments, participation during lab, adherence to safety regulations, housekeeping, and the written assignment. Pre-labs should be done prior to coming to class. This will help ensure the safety of all who will be working in the lab. Any students with long hair should **ALWAYS** keep a tie in their backpacks for lab days/activities.
 - **Failure** to comply with behavior expectations can result in removal from the lab activities and a low lab grade. A safety contract will be sent home and filled out by the student as well as the parent/guardian. These documents will be kept on file and are needed before a student can participate in any lab.
- If the absence is unexcused, it is expected that the missing work is completed, but the student will not receive credit for the work, and will be deducted 10%.
- Retakes are at the discretion of the teacher. A student must demonstrate that they have done something to improve their score (ie. completed missing homework, come in for extra help) before a retake is given.
- Assessment retakes will only be allowed to be retaken one time and if the original assessment scores is 70% or Lower.
- All corrected assessment answers will be given ½ for each corrected answer.
- Students will have until the end of a unit to turn in any missing/late work for the unit. These assignments will **not** be given full credit. The student must have a conversation with the teacher about how many points these assignments will be worth.
- **Missing or incomplete assignments/assessments for this course:** Superintendent policies 6280 homework & 6281 make-up work will be followed for this course.

Homework & Class Participation:

- Most days you will have time to begin the HW assignment and ask questions before leaving class for the day ☺. Homework will be due at the beginning of class unless otherwise stated. Some homework will be graded for accuracy; some for completion, and some will be non-graded practice assignments.
- Participation is everything! If I see that you are paying attention, trying your best, and getting involved in what we are doing, I will do everything I can to see that you succeed. Get involved every day and I can guarantee you will do well in my class.

Technology and Cell Phones:

- We will use computers a lot in this course. Misuse of the computers (ie. Inappropriate sites, off-task, unapproved sites) may result in failing grades
- Copy-and-pasting computer text into your work is considered **plagiarism** and will be dealt with under the guidelines of school board policy.
- Cell Phones, laptops and tablets can be used with permission for research only!!! If you are caught misusing your cell phone, first offense results in me taking the phone for the remainder of the class period. The 2nd offense results in me taking the phone for the remainder of the day, 3rd offence results in the phone being turned into student relations and the 4th offence requires parents or guardian to come to school during class hours and sign out for the phone.
- Technology is essential for learning and investigating. Please do not abuse this privilege

Tutoring:

- Tutoring is offered from during 4th and 7th periods, and arrangements need to be made ahead of time in order to ensure I will be available.

Notebook:

- To pass this course you will need to keep an organized notebook. This should include any handouts you get in class, lab notes, and daily lecture notes. **KEEP EVERYTHING!** All assessments are based on notes taken & classroom activities. Some, but not all, assessments are open notes. As you progress in your education and careers, the importance of taking good notes cannot be underestimated.

Student Expectations

- Be **ON** time **IN** dress code. This means *sitting in your desk* when the bell rings!
- Bring **ALL** materials to class **EVERYDAY**. Be on time, ready to work, when bell rings and work for the entire class
- Listen carefully and Follow **ALL** directions.
- Be respectful to **EVERYONE** at **ALL** times. **Respect** all people and property
- No food or drink in lab; all safety guidelines that pertain to an unique lab must be followed
- Individual music can only be listened to during individual work time
- Cell phones need to remain away unless they are being used for an academic purpose. The teacher can take a cell phone for the rest of the period if a student has been warned about using it. Excessive violation of this expectation will result in the phone being taken to Student Relations Do not ask to use the bathroom during a lecture, whole class discussion, or peer presentation

Materials/Supplies needed daily:

- Pencils with ERASERS and pens for work
- Blue & Black pens (no assignments or assessments will be accepted in other colors, and the student will be given a 0.)
- Loose-leaf college rule notebook paper (8.5" x 11"). Any work turned in for grading, needs to be on loose-leaf paper ONLY – No torn spiral pages. Paper turned in with spiral edges will receive a 0.