**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Science Department**- Miami Beach Senior High School – Course Syllabus

Science Dept : Forensic Science 1 Honors 2019 -2020

Teacher: Mrs Diaz (W)532-4515 ext 2374  Room 374

Email: LDIAZ@dadeschools.net

Dear Students and Parents,

           The learning environment must be respected by every student attending Miami Beach Senior High. The rules and expectations listed below are necessary for all students to follow. Below is a brief explanation of teaching strategies, activities and curriculum. Please return the signed course syllabus by a parent or guardian.

**Forensic Science** is the application of science to those criminal and civil laws that are enforced by police agencies in a criminal justice system. It has become a comprehensive subject incorporating Biology, Chemistry, Physics, Entomology, Earth Science, Anatomy and Physiology as well as other aspects of Science. Major topics include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, and paint, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis. The main focus of this course will be to emphasize the evidential value of crime scene and related evidence and the services of what has become known as the crime laboratory. This course combines basic theory and real laboratory experiments, creating an experiment based situation for the better understanding of the students. The experiments used reinforce previously learned scientific principles rooted in Biology, Chemistry and physics. Each unit has its own experiments, which can be modified depending on class size and exterior circumstances such as climate. Actual Case studies will also be incorporated into each lesson along with related videos or programs. A parent letter explaining the sometimes graphic and sensitive nature of the course will go home with each student and must be parent signed to remain in the course.

**Course Outline:**

**Introduction**

**DNA Fingerprinting**

**Observation Skills / Deductive Reasoning**

**Investigation and Evidence Collection / The Crime Scene (Mock Crime Scene)**

**Physical Evidence Types and Importance**

**DNA Fingerprinting**

**Fingerprints**

**Lip prints and Lipstick Chromatography**

**Blood typing**

**Blood Spatter Intro**

**Document examination**

**Counterfeiting**

**Handwriting Analysis Ink Chromatography**

**Death, meaning Manner Mechanism and Time**

**Forensic Anthropology /Entomology**

**Forensic Psychology Introduction**

**Classroom Rules:**

1.     Enter the classroom quietly and take your assigned seat and put away all electronic devices. Disruptions after the class begins will not be tolerated.  Tardiness is unacceptable without a late to school pass or signed yellow pass.

2.     Bring your supplies to class every day. This includes your binder, pen, colored pencils, highlighters, ruler and glue stick.

3.     Gum chewing, eating food and drinks are strictly **not** permitted in the science classroom.

4.     Always keep table and floor area clean. Do not throw trash on the floor, sinks or unlocked drawers and cabinets around the room.

5.     Show respect for your teachers, your peers and all school property.

6.     Electronic devices will be allowed for educational use only when required.

7.     Restroom passes are given one person at a time no exceptions and must be signed out and returned. You must have a hall pass to leave the room and return within a reasonable amount of time.

 **Grades:**

Grades in my class are based on a 4 point letter grade scale as follows:

 A = 4 B =3 C = 2 D = 1 F = 0 Z (missing assignment) = 0

**Textbook**: Forensic Science an Introduction by Bertino and Bertino

A textbook will be assigned temporarily and by request only. The book is posted and accessible on the student portal.

**Science Fees:** There is a $5.00 science lab fee for every student at Beach High enrolled in a science class. Students can pay the fee during school hours in cash to Mrs Jean in the Treasurers office located in the main office. Fees can also be paid online on the student portal. The science fees are an important part of our science curriculum. It ensures that every student be provided labs that will enhance their educations and it provides us with the money to order supplies and equipment to perform these labs.

**Required Class supplies**: A three ring binder, a blue or black ink pen, highlighters, a ruler, a glue stick and #2 pencils for exams.

http://www.cpalms.org/Public/PreviewCourse/Preview/13097

For information on progress reports, report cards and the school calendar, visit [http://miamibeachhigh.schoolwires.com](http://miamibeachhigh.schoolwires.com/)

Student Name (print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent /Guardian Name Print \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Relationship to student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent contact # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parent email \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_