

BARUCH COLLEGE- STEP ACADEMY

SUMMER 2008 COURSE DESCRIPTIONS

July 7th - July 31st (Monday - Thursday)

MORNING COURSES 9:30am-11:15am

- **FORENSICS SCIENCE**

This class will describe the discipline of forensic science and how it is different from the classical sciences. We will learn how to use evidence to associate a suspect with a crime scene or victim, as well as how to differentiate between different types of evidence. Beyond the tangible aspects of crime scene investigation, we will also discuss the notions of truth, justice, law and ethics. The first two weeks will focus on the forensic evidence while the last two weeks will cover the legal aspect with an actual mock jury trial.

- **ENVIRONMENTAL SCIENCE**

This course will revolve around the concept of synergy: The whole is greater than the sum of its parts. We will look at various terrestrial and aquatic ecosystems to biomes. We will discuss biological, ecological, and socio-economical concerns that affect each system. Taking part in various labs and trips will be required.

- **FITNESS & NUTRITION DEVELOPMENT**

This course will focus on weight training (muscle conditioning, toning and strengthening) in the Fitness Center. We will also emphasize the importance of cardiovascular training and maintaining a healthy eating regimen.

LUNCH 11:15am-12:00pm

AFTERNOON COURSES 12:00pm-1:45pm

- **KITCHEN CHEMISTRY**

Students will learn chemistry relating to major aspects of cooking and food, their nutritional, physiological, flavor and some microbiological components. In addition, they will be experimenting with processes and methods with foods to measure and observe properties of food. A diet analysis will be performed using computer software. The importance of fruits, vegetables and antioxidants will be highlighted. A group project will conclude the course, which will give students an introduction to scientific research.

- **MARINE BIOLOGY**

In this course, we will discuss the components of the ocean, the various types of aquatic organisms that reside there, and compare and contrast saltwater ecosystems, fresh water ecosystems, and estuaries. Labs and trips will be apart of this course, including group dissections.

- **MATH REVIEW**

This course will cover a range of math topics, covering material for various regents as well as being a refresher course. Students will spend time in the class and in the field as we explore applications of mathematical concepts. Hands on methods of application lead to longer recall of the principles.

This is a tentative course listing. It is subject to change, stay tuned to the yahoo group and check your emails.

http://groups.yahoo.com/group/baruch_step_academy