

## Course Descriptions

### All Day Course Tracks

#### **(1) Mathematical Dynamics of Bridges (9:30am-2pm)**

*Instructor: Wayne Tobias*

Students will visit famous bridges in NYC, study their structures and relate the engineering of bridges to the foundation of math. Students will construct bridges applying knowledge learned during the class. Bridges will be tested for usability and strength.

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#### **(2) Exploration of the Human Body (9:30am-2pm)**

*Instructor: John Russo*

This course will touch upon all major fields and courses of study pertaining to biomedical science. Students will be required to actively participate in class discussions, diagnosing cyber-patients, answering problems found in case studies, perform virtual dissections, and take part in field trips.

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#### **(3) Web Design AM (9:30-11:30)**

*Instructor: TBA*

This course will expose students to the fundamentals of graphic design and website formatting. The end result will be the creation of individual websites.

#### **Creative Expression PM (12:15-2)**

*Instructor: Simone Webb*

The object of this course is to strengthen students' writing, communicative and critical thinking skills. This course has two parts- creating a newspaper and debating on various current events in presentation formats.

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#### **(4) Fitness & Nutrition AM (9:30-11:30)**

*Instructor: John Gardenhire*

Students learn about cardiovascular training, weight training, and should be prepared to develop and follow their own personal fitness plan. Students need to bring appropriate gym clothing.

#### **Electrical Engineering PM (12:15-2)**

*Instructor: Alex*

The objectives of this course are to learn the basic physics of electricity, become knowledgeable of basic electrical components, what they do and how they are used. Students will learn how electricity is generated and alternative sources for generating electricity.