

## **KING PHILIP GRADUATION DISTINCTION IN STEM**

King Philip students have an opportunity to graduate with a distinction in STEM. Participation in the Graduation Distinction program will be noted on the school transcript and a program description will be included in the school profile that is sent to colleges. This distinction can be achieved when students *choose specific electives from a particular set of courses that focus on science, technology, engineering, and mathematics*; in addition, students will be required to develop and complete a project that will expose them to the "real world" applications available through STEM studies.

### **The criteria for this project will include the following:**

- a. Students must propose, receive approval, and engage in a project that incorporates the core concepts of science, technology, engineering, and/or math.
- b. Students will work with an advisor to create a proposal, establish the parameters of the project, and establish the format of the final product.
- c. Students will conduct background research on the chosen topic and write a report on this using MLA format.
- d. Students will produce a final product that will be shared in a public venue that has been approved by the advisor.
- e. Students will write a summary paper about the project and make an oral presentation to a faculty panel for evaluation.

### **Required Courses**

#### **Science (4 years)**

Physical Science or Core Foundations

Biology

Chemistry

Physics

#### **Mathematics (4 years)**

The student must take 4 full years of math courses.

### **Project Design**

The project must be completed in accordance with the guidelines approved by the Graduation Distinction advisor. The project will be presented to a faculty panel in the form of a paper that includes background research and an oral presentation. The paper as well as the Works Cited will follow MLA format.

### **Project Timeline**

Initial proposals must be submitted by the end of term 3 of the student's junior year.

Projects must be completed and the final presentation paper that will be submitted to the faculty panel must be completed by the end of term 3 of the student's senior year.