

# Enhanced Design III (GTT) Syllabus

Students and Parents,

It is with excitement that I welcome you to the Enhanced Design III class, also called Gateway to Technology (or GTT). GTT incorporates ideas from IB Design and also follows the curriculum laid by Project Lead the Way (PLTW - <https://www.pltw.org/>). GTT combines Science, Technology, Engineering, and Mathematics in a true STEM class. This year we will learn by doing, practicing, and completing hands-on projects.

GTT is more rigorous and fast-paced than the standard Design III course, but students will have more opportunity to learn specific skills and work with a wider variety of tools and equipment (i.e., robotic software and equipment). In addition, GTT is a high school level class and students will earn high school credit for successfully completing the course.

GTT consists of 2 modules or areas of study: Design and Modeling, and Automation and Robotics.

- *Design and Modeling* - introduces students to engineering, the design process, sketching, and 3D computer aided design (CAD)
- *Automation and Robotics* - introduces students to designing, building, and programming robotic and automated systems.

## Student Supplies and Requirements:

- \$20 Lab Fee (Cash or Check made out to CMS) - This fee helps us purchase consumable items we use throughout the year to build our ideas. (If there are economic circumstances, which make it difficult to afford the lab fee, please contact Ms. Schoenthal, the Student Asst. Counselor or myself to discuss the matter.)
- 1 4X4 Quad Ruled Graph paper composition notebook (this is provided to the students in class...it is a part of the lab fee.)
- Pencils and a 12in ruler (with inches and centimeters)

*The goal of Gateway (and Design in general) is not to “get the right answer” or even to have a successful solution every time. We strive to teach students how to approach a problem, work through the process of designing a solution, and to evaluate the outcome. The ultimate goal is to determine what worked and didn’t work, so that next time...it can be better.*

## Contact Information:

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## Please Sign and Return this Copy along with the Lab Fee

Parent Signature: \_\_\_\_\_

Date: \_\_\_\_\_

\*\*Additional copies of the syllabus are available on my website or upon request.\*\*