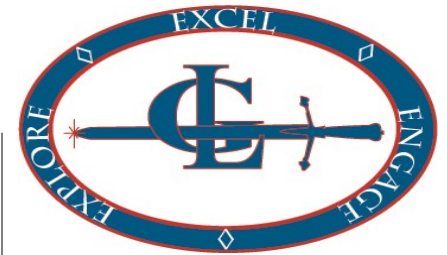
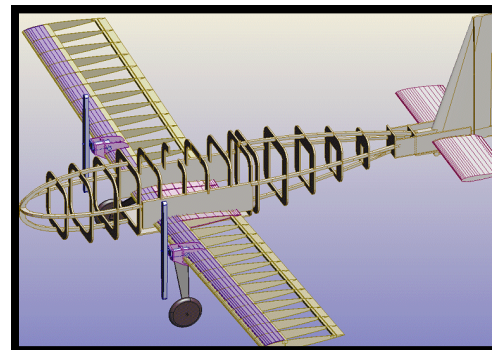


OUR MISSION:

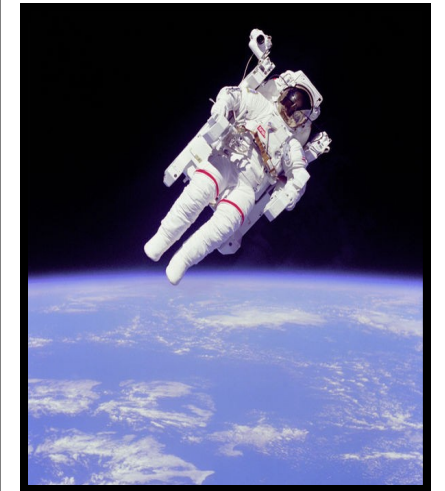
We are a nation that is increasingly dependent on technology. Our mission is to try to provide students with the technological literacy and skills required to excel in our rapidly advancing world. It is important that students in our society become technologically literate citizens, who can make important decisions for themselves and our nation. Our goal is to safely teach our students to be skilled workers and problem-solvers. Our projects and design challenges incorporate engineering concepts and enable students to hone their skills by solving real world problems.



G.L.H.S. INDUSTRIAL ARTS & TECHNOLOGY



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Mr. Wiatr
&
Mr. Guyton

Governor Livingston H.S.
175 Watchung Blvd.
Berkeley Heights, NJ 07922
(908) 464-3100

Industrial Arts/Technology

INTRO TO COMPUTER-AIDED DRAFTING & DESIGN 0619 2.5 credits 9, 10, 11, 12

Introduction to Computer Aided Drafting and Design (CADD) is a course that uses state-of-the-art hardware and CADD software (AUTO-CAD-LT and PRO-DESKTOP) to create and design project solutions. The application of critical thinking and problem solving skills as a design tool are stressed. Basic drawing techniques such as orthographic, isometric, and perspective drawing are covered. Architectural drawing and scale model construction are introduced during the course. Career opportunities in this fast growing technological field are also addressed.

INTRODUCTION TO ELECTRONICS 6647 2.5 credits 9, 10, 11, 12

This course is based on the study of basic electronic theory and practice. The fundamentals of electronic circuits and design are emphasized. The student is expected to construct original projects and perform basic repairs on defective equipment. Areas covered include printed circuit construction & design, digital electronics and robotics basics. The student constructs various projects and has the opportunity to work and test equipment and other electronic devices. Safe work habits are emphasized.

INTRODUCTION TO WOODWORKING 0615 2.5 credits 9, 10, 11, 12

Introduction to Woodworking stresses fundamental tool processes and techniques, as well as basic machine operations. The selection and application of appropriate materials are stressed. This course offers the student an opportunity to design and fabricate projects, to develop efficient work habits, to solve design/construction problems, to learn and apply essential skills, and to incorporate safe working procedures. A large portion of the semester is dedicated to individual project design and fabrication. Students are encouraged to develop individual, creative project designs of interest to them.

INTRODUCTION TO TECHNOLOGY 0600 2.5 credits 9, 10, 11, 12

This course emphasizes the design and problem-solving processes, the evolution of technology, and the systems approach to understanding technology. The course involves hands-on projects such as:

crumble zone project, rough terrain vehicle, model rocket design and construction, scale model bridge design and building, air and land transportation projects, individual glider design and construction, dispenser design and construction, and aerodynamics and wind resistance.

The areas of informational, physical, and mechanical technologies are explored through the application of design/problem solving activities. This course acquaints the student with the impact and importance of technology on the individual and society as well as the exploration of related careers.

APPLIED TECHNOLOGY 0610 2.5 credits 9, 10, 11, 12

Applied Technology is a survey course including but not limited to the areas of computer-aided drafting, photography, plastics, print, stained glass, and basic electronics. Students will work on a number of hands-on projects while being exposed to the various areas explored throughout the course. The student will have many opportunities to develop problem-solving and critical thinking skills while producing hands on projects.

FINE METAL WORKING 0611 2.5 credits 9, 10, 11, 12

Fine Metal Working is a course designed to introduce the student to some of the basic operations necessary to take an idea from concept to finished product. Some of the areas that will be explored include but are not limited to: sheet metal development, decorative metalworking, metal finishing, and the mechanics of jewelry construction. Many skills will be developed as the student progresses through this course, including safety awareness, layout and design principles, computer use to generate drawings, cutting and assembly techniques as well as finishing techniques. Problem solving skills and the development of individual creativity will be stressed. *May be repeated for credit.



**Mr. Wiatr
&
Mr. Guyton**