Course Enhancements: Manhasset Secondary School

Art Department

AP Art History

AP Art History is designed to allow students to examine major forms of artistic expression relevant to a variety of cultures evident in wide variety of periods from present times into the past. Students acquire an ability to examine works of art critically, with intelligence and sensitivity, and to articulate their thoughts and experiences.
Participation in this course will culminate in taking the AP Art History examination.
Prerequisite: Successful completion of two art credits
Grades: 11, 12 1 Credit (W: +0.5)

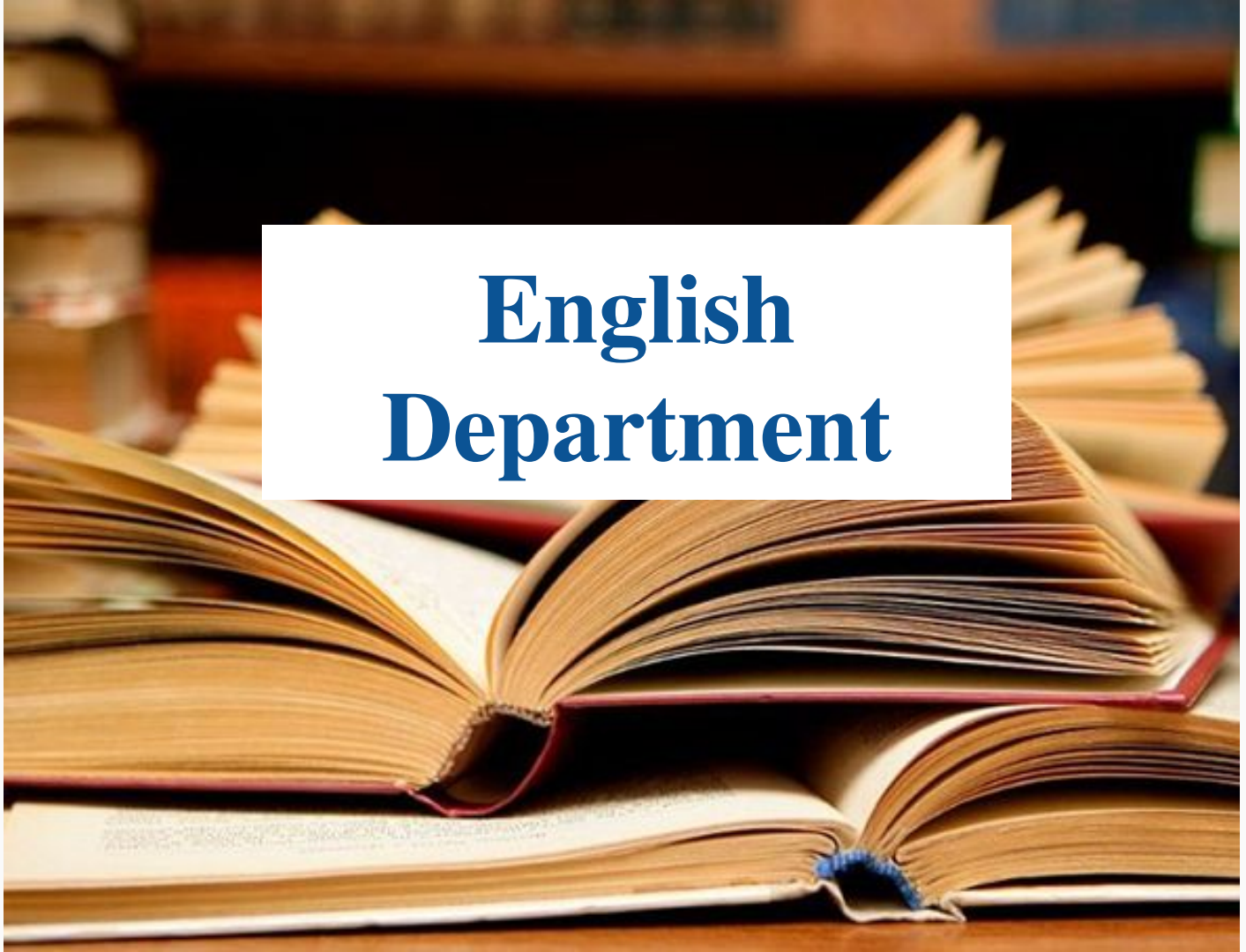
3D Design & Production

3D Design & Production

This class will focus on designing and producing three-dimensional work using SketchUp or similar CAD software. Several production techniques would be explored, including creating models of student work by hand and by using 21st-century tools such as 3D printers. Students who complete this course will have knowledge of principles of design thinking and will be able to use these principles to solve real-world problems.

Prerequisites: Completion of Foundations in Art

Grades: 9, 10, 11, 12 ½ credit


English
Department

Broadcast Journalism

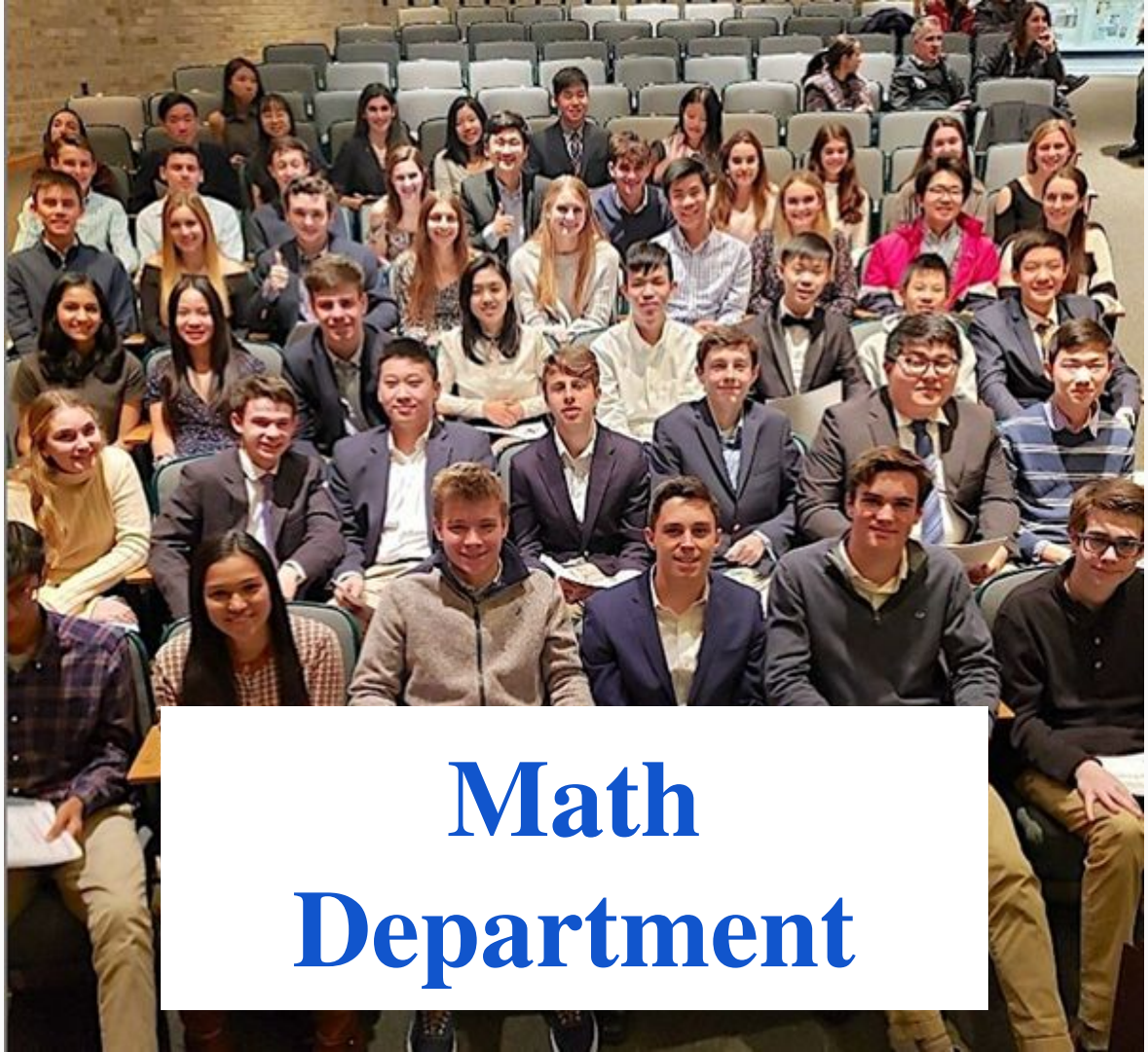
In the course, students will explore aspects of news reporting that reflects social research and current events. They will also develop essential communication skills in multiple platforms, including journalistic writing and interviewing and develop broadcasts (TV/Radio/Online) with journalistic integrity. In addition, students will learn the components of video/audio editing. The Broadcast Journalism elective is intended to be paired with the current Journalism course. Grades 9, 10, 11, 12

½ credit

Communication: Creativity & Persuasion

This course aims to prepare students for the increasingly unpredictable and dynamic world they will enter after high school. Designed for non-traditional students, the elective will use core texts, film, activities, thought experiments, graphic novels, podcasts, and TED talks to expose students to the logical, rhetorical, and argumentative concepts present in pre-AP and AP courses.

Grades 9, 10, 11, 12 ½ credit



Math Department

The Mathematics of Sports

Did you ever wonder how changes to sports rules might affect the outcomes of games? Learn how to understand and interpret statistics reported in the media, create mathematical models to evaluate teams, and leverage data to inform strategic decisions in a variety of sports. This course will meet every other day for the full year.

Prerequisites: Successful completion of Algebra 1 and Math teacher recommendation.

Grades 10, 11, 12 ½ credit

Science Department

Computer Integrated Manufacturing

This is the fourth year high school level course in the PLTW (Project Lead the Way) Engineering Program. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students will use the engineering design process to create and design solutions to problems, then actually build and manufacture those products using computer integrated machinery such as a CNC machine and/or a laser engraver. This gives students an opportunity to apply their accumulated knowledge and skills from the previous 3 engineering classes and solve real-world problems.

Prerequisites: Aerospace Engineering. Grade 12 1 credit (W: +0.25)