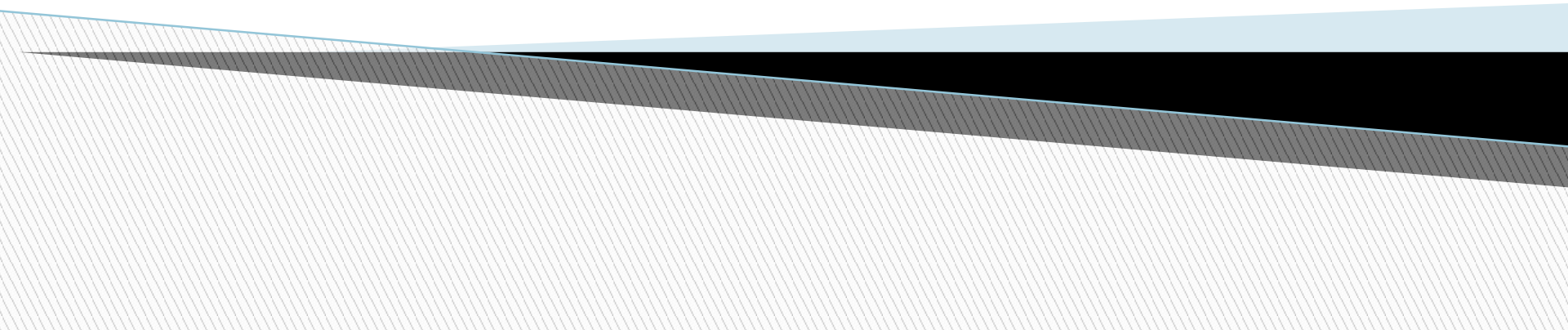
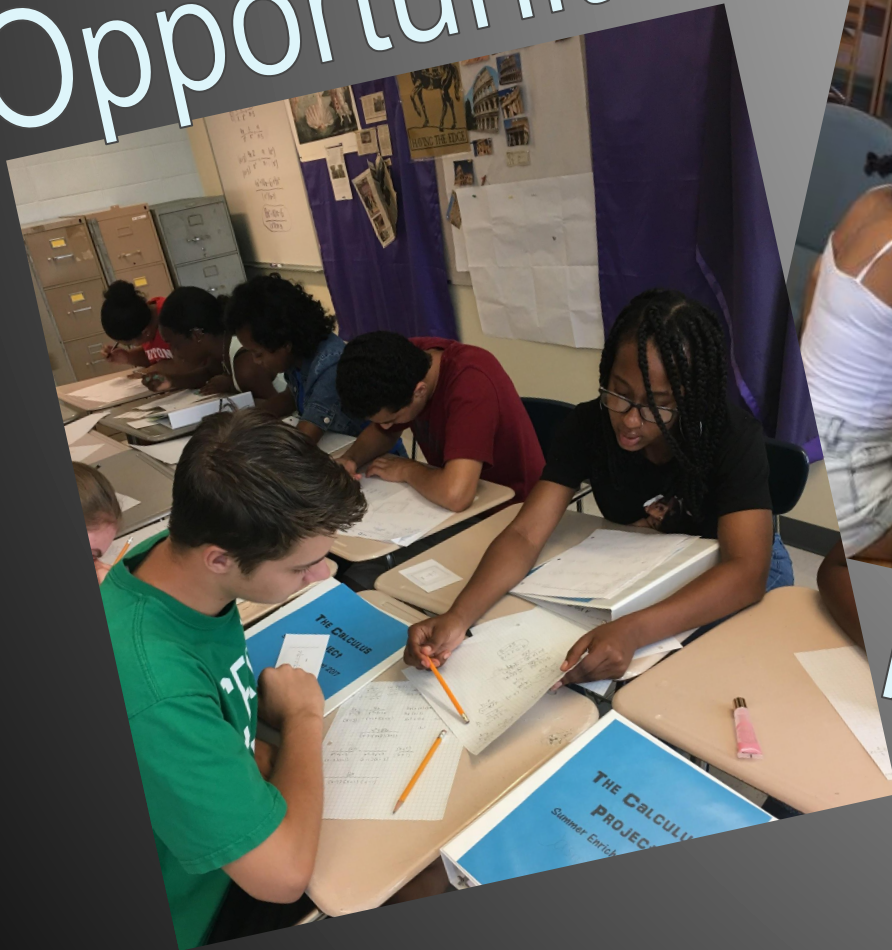


# **Milton High School Mathematics Department**

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# Opportunities



# in Mathematics and Computer Science

# Mathematics Course Offerings 2018–2019

Graduation requirement = 4 years of mathematics

## Grade 9

**Algebra,  
Geometry &  
Statistics  
(Course 1)**

College Prep  
Honors

## Grade 10

**Algebra 2,  
Geometry &  
Statistics  
(Course 2)**

College Prep  
Honors

## Grade 11

**Algebra 2,  
Statistics &  
Precalculus  
(Course 3)**

College Prep  
Honors

**Precalculus,  
Statistics &  
Calculus  
(Course 3)**  
Acc. Honors

## Grade 12

**Applied  
Mathematics**  
College Prep

**Statistics**  
Honors  
Advanced Placement

**Calculus**  
Honors  
Advanced Placement  
(AB or BC)

**Note: AP Statistics can be taken concurrently with Course 3 or Calculus.**

# Computer Science Sequence 2018–2019

**Introduction to  
Computer  
Science\***  
unleveled  
(semester)

**Robotics\***  
unleveled  
(semester)

**Computer  
Science  
Honors**  
(semester)

**Computer  
Science  
Principles**  
Advanced Placement  
(full year)

**Computer  
Science A**  
Advanced Placement  
(full year)

\*no prerequisite for this course

# Elective Courses

- **MCAS Math Preparation\*** (unleveled, semester course)
- **Math Support\*** (unleveled, semester course)
- **SAT Preparation\*** (unleveled, semester course)
- **Mathematics Teaching Assistant\*** (unleveled, semester course for juniors/seniors)
- **Senior Project, Topics in Math** (honors, full-year course, for seniors who have taken both AP Calculus BC and AP Statistics)

\*no prerequisite for this course

# Mathematics Department Clubs and Activities

## Mathematics Team

Students from grades 9–12 meet weekly to complete challenging math problems. The team competes in four mathematics meets against students from area schools (Southeastern Massachusetts Mathematics League). Team members also host an Milton High School in-house competition called the Math Olympiad.

## WPI Math Competition

Four Course 3 and/or Calculus students are chosen each year to compete at the Worcester Polytechnic Institute Annual Invitational Mathematics Meet in October.

## 3D Printing Club

Club members get together to collaboratively and creatively design various projects to print on the math department 3D printer.



# Department Highlights

- ▶ We offer an integrated high school pathway which starts in grade 9. This allows the opportunity for all students to be able to reach advanced mathematics classes, such as calculus, by grade 12.
- ▶ Our teachers love technology! Some examples include assigning online homework assignments which provide immediate feedback, using engaging Desmos activities for learning, and using online videos to help support instruction.
- ▶ The mean SAT mathematics score for the graduating class of 2018 was 596.
- ▶ A high percentage of 2017–18 mathematics students obtained qualifying scores (3 or better) on AP math exams:

Exam	% of Exam Takers with Qualifying Scores
AP Calculus BC	97%
AP Calculus AB	98%
AP Statistics	100%
AP Computer Science A	88%
AP Computer Science Principles	87%