

# Algonquin Regional High School

*Serving the communities of Northborough & Southborough, MA*

## 2023-2024 School Profile



**CEEB 221630**

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### School:

Accredited by the New England Association of College and Secondary Schools, Algonquin Regional High School is a comprehensive public high school with an enrollment of approximately 1,225 students in grades nine through twelve. Algonquin is designed to meet the needs of a variety of students, including students preparing to enter a four-year college or university, students who will continue their education for a shorter period of time at a community college, vocational or technical school, and students preparing to enter the world of work. More than 90% of Algonquin graduates enter post-secondary education institutions with the majority attending 4 year schools.

### Community:

Northborough and Southborough, suburbs west of Boston with populations of 15,101 and 10,169 respectively, have a long history of strong support for public education. The rural beauty and small-town atmosphere attract a diverse population, from professionals to business owners and trades people.

<https://arhs.nsboro.k12.ma.us>

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## Graduation Requirements

English	20 credits
Mathematics	15 credits
Science (Lab)	15 credits
Social Studies	15 credits
Microeconomics	2.5 credits
Digital Literacy	2.5 credits
Fine/Applied Arts	2.5 credits
Health & Fitness	10 credits
Electives	27.5credits

**Total Credits: Minimum of 110**

### English: 4 yrs.

Students are required to take Freshman English (9), Sophomore English (10), Junior English, AP Language, or AP Literature (11), seniors select from a variety of options including AP English Literature or AP Language.

### Social Studies: 3 yrs.

Students are required to take US History I (9), US History II or AP US (10), World History or AP World (11), juniors and seniors can select from a variety of electives including AP Psychology, AP Human Geography, and AP US Govt. & Politics.

### Mathematics: 3yrs.

Students typically meet the requirements with Algebra I, Geometry, & Algebra II. Many of our students enroll in advanced math courses of Adv. Algebra, Pre-Calculus, Calculus, AP Calculus AB or BC, and AP Statistics.

### Science: 3yrs.

Students are required to take Biology (9), Chemistry (10), and Physics (11). Students often continue beyond the required courses to include AP Chemistry, AP Biology, AP Environmental, AP Physics C, and other electives. All courses include a laboratory component.

### World Language: no requirement

There is not a graduation requirement for world language, many students elect to enroll in two or more years of a language. Students can choose from Latin, Spanish & French, all culminating to an AP course.

### Health & Fitness: all 4 years

The health and physical education courses provide a comprehensive curriculum that challenges students to pursue a healthy lifestyle. Students are required to enroll in a Health & Fitness course every year of high school.

### Fine/Perform/Applied Arts: 1.5 yrs.

Students are required to take a semester of Digital Literacy, microeconomics, and an applied or fine arts elective of their choosing. Courses are offered in visual arts, music, theater, and applied arts.

## Program of Study

### Advanced Placement (AP)

These courses are designed to challenge students with college level work and exams while still in high school. The curriculum for AP courses is standardized by the College Board and challenges students to the highest degree.

### Honors (H)

These courses include material presented at an accelerated and more intensive pace than the college prep courses. They require advanced reading, writing, verbal, conceptual, mathematical, and study abilities, as well as extensive outside preparation.

### College Preparatory (CP)

These courses are college and post-secondary educational preparatory classes. These are taken by a majority of four-year college bound students, and require well-developed reading, writing, verbal, conceptual, mathematical, and study abilities, as well as outside preparation and assignments.

## Grade Point Average & Rank

### *Algonquin does not report rank for students.*

All courses at ARHS are weighted based upon the level of the class (i.e. AP, H, and CP). All courses are calculated into the GPA with the exception of courses students choose to exempt. A student can elect to exempt one non-required course per semester from their GPA. The GPA exemption is designed to allow students to enroll in CP electives without concern for their overall GPA.

The junior GPA based on six semesters is the GPA sent to colleges during the college application process. The GPA is not recalculated again until the end of senior year. *Levels are denoted on the transcript as AP, H, & CP*

*Computation of grade point average (GPA) is based on the following chart:*

Letter Grade	%	Weighted Quality Point Equivalent	Index		
			AP	H	CP
A+	97-100	5	4.5	4	
A	93-96	4.8	4.3	3.8	
A-	90-92	4.5	4	3.5	
B+	87-89	4.3	3.8	3.3	
B	83-86	4	3.5	3	
B-	80-82	3.8	3.3	2.8	
C+	77-79	3.5	3	2.5	
C	73-76	3.3	2.8	2.3	
C-	70-72	3	2.5	2	
D+	67-69	2.8	2.3	1.8	
D	63-66	2.5	2	1.5	
D-	60-62	2.3	1.8	1.3	
F	0-59	0	0	0	

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## 2023 ADVANCED PLACEMENT SCORES

425 students took 966 exams.

Students earning a grade of 3 or higher = 86%

Total AP Scholars: 186 Average Scholar score: 3.9

### Average AP Scores by Course

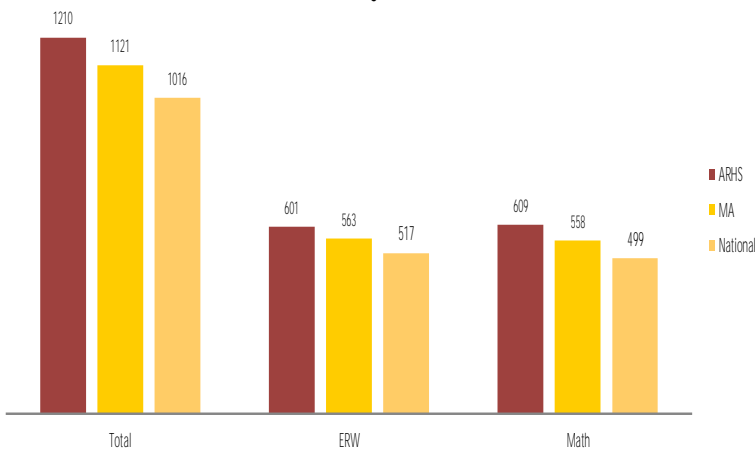
2-Dimensional Art= 3.33	Human Geography= 3.49
Biology = 3.86	Microeconomics = 2.73
Calculus AB = 4.58	Music Theory = 4.0
Calculus BC = 4.67	Physics C E&M = 4.18, M = 4.03
Chemistry = 4.19	Psychology = 3.53
Computer Science A = 3.29	Spanish Language = 3.94
Computer Science Principles = 3.26	Statistics = 3.07
English Language & Comp. = 3.78	Studio Art = 3.23
English Lit & Comp. = 3.73	U.S. Govt & Pol = 3.5
Environmental Science = 4.0	U.S. History = 3.49
French Language = 3.0	World History = 4.02

## COVID Pandemic Statement

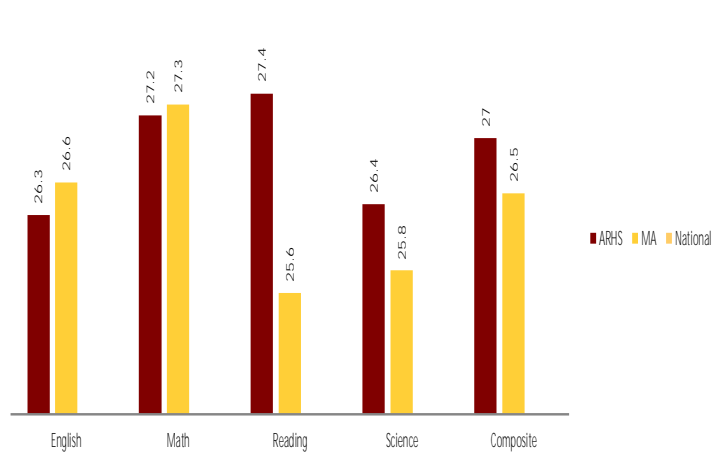
For the 2020-2021 school year, students engaged in a hybrid learning model from September—April. All students returned to in person learning April 27, 2021– June 19, 2021. During hybrid learning teachers live streamed instruction to remote students in order to maintain a rigorous course of study. Grading followed our traditional grading practice, awarding final letter grades for all courses. GPA was calculated utilizing our weighted scale. Grades are reflective of student progress. Counselors will address individual circumstances in their letter of recommendation.

For the 2019-2020 school year, the grading policy was adjusted during the pandemic. We ended term 3 at the time of school closure. The remainder of the school year, remote learning time, constituted term 4. Algonquin weighted terms 1, 2, 3 and midterm exam more heavily than term 4 due to the number of instructional hours. Final grades were issued for all students. The change in weighting allowed for final grades to be more reflective of the students' progress during in person instruction.

2023 SAT Averages



2023 ACT Averages



## National Merit

Massachusetts NMSQT index: 220

Class of 2024:  
6 Semi-Finalists, 19 commended

Class of 2023:  
1 semi-finalist, 15 commended

Class of 2022:  
5 finalists, 19 commended

## Class of 2024 GPA Range

High: 4.5

Median: 3.68

Low: 1.58

**Algonquin Regional High School counselors complete a counselor recommendation, secondary school report and mid-year report for each student in lieu of individual college reports.**

# Course of Study

## ENGLISH

A.P. English Literature  
A.P. English Language  
Adv. Writing Seminar (H)  
American Literature (H) (CP)  
British Literature (H) (CP)  
Comedy & Satire in Lit (H) (CP)  
Contemporary Literature (H) (CP)  
Creative Writing (H) (CP)  
Fairy Tales & Myths (H) (CP)  
Freshman English (H) (CP)  
Journalism (H) (CP)  
Junior English (H) (CP)  
Non-Western Literature (H)  
Oral Tradition & Spoken Word (H)  
Postmodernism (H)  
Reading/Writing Memoirs (H) (CP)  
Russian/European Literature (H)  
Silenced Voices (H) (CP)  
Sophomore English (H) (CP)  
Writing Workshop (H) (CP)

Newspaper Production I, II (H)

## SOCIAL STUDIES

A. P. Human Geography  
A.P. Psychology  
A.P. U.S. Gov't & Politics  
A.P. U.S. History  
A.P. World History  
Ancient Healers & Mod. Medicine (H)  
Behavioral Economics (H)  
Criminal Justice (H) (CP)  
Holocaust & Human Behavior (H)  
Law and Society (H) (CP)  
Psychology (H) (CP) I & II  
Positive Psychology (H)  
Race in America (H)  
History Thru Film (H) (CP)  
Sociology (H) (CP)  
U.S. History I (H) (CP)  
U.S. History II (H) (CP)  
Women in U.S. History (H)

World History II (H) (CP)

## MATHEMATICS

A.P. Calculus (AB) (BC)  
A.P. Statistics  
Adv. Algebra (CP)  
Adv. Math Functions (CP)  
Algebra I (H) (CP)  
Algebra I Fund (CP)  
Algebra II (H) (CP)  
Algebra 2 Fund (CP)  
Calculus (H) (CP)  
Cont. Applied Math I & II (H) (CP)  
Geometry (H) (CP)  
Geometry Fund (CP)  
Individualized Math (CP)  
Integrated Math I (CP)  
Integrated Math II (CP)  
Integrated Math III (CP)  
Math Reasoning (CP)  
Pre-Calculus (H) (CP)  
Pre-Calculus Fund (CP)  
Statistics (CP)

## INTERDISCIPLINARY

Public Speaking (H)

## COMPUTER SCIENCE

A.P. Computer Science A  
A. P. Computer Science Principles  
Advanced HTML & Web Design (H)  
C++1(H) (CP)  
C++2 (H) (CP)  
Exploring Comp Science (H) (CP)  
HTML & Web Design (H) (CP)  
Intro to Comp Prog. (CP)  
Python (H)  
Scheme Program (H) (CP)  
Visual Basic (H) (CP)  
Visual C++(H)  
Web Page/Dreamweaver (H)  
Game Dev. & Prog. (H) (CP)

## SCIENCE (ALL LAB SCIENCE)

A.P. Biology  
A.P. Chemistry  
A.P. Environmental  
A.P. Physics B,C  
Astronomy (CP)  
Bio Fund (CP)  
Biotechnology (H) (CP)  
Biology (H) (CP)  
Chemistry (H) (CP)  
Environ. Science (H) (CP)  
Forensic Science (H) (CP)  
Chemistry Fund (CP)  
Human Anatomy & Physiology (H) (CP)  
Innovations (H) (CP)  
Intro to Mech. & Electrical Engineering (H) (CP)  
Organic Chemistry (H)  
Physics (H) (CP)  
Physics Fund (CP)

## WORLD LANGUAGES

A.P. French Language  
A.P. Latin:Vergil  
A.P. Spanish Language  
French I,II,III,IV (H) (CP)  
French V (H)  
Hispanic Culture A/B (H) (CP)  
Latin I,II,III,IV, V (H) (CP)  
Spanish I,II, (A), (B),III,IV, (H) (CP)  
Adv. Spanish Thru Film (H) (CP)  
Human Language (H) (CP)  
Linguistics (H) (CP)  
Intro to Philosophy (H)  
Ancient Greek Hist & Cult (H)  
Ancient Roman Hist & Cult (H)

## HEALTH & FITNESS

Health & Fitness 09  
Health & Fitness 10  
Health & Fitness 11  
Health & Fitness 12  
Outdoor ED (CP)  
Team Sports (CP)  
Weight Training (CP)

## APPLIED ARTS & TECHNOLOGY

A.P. Microeconomics  
Accounting I,II (H) (CP)  
Architectural Graphics (H)  
Business Communications (H)  
Business Internship (H)  
Business Fundamentals (H) (CP)

## APPLIED ARTS & TECHNOLOGY cont.

Business Law (H) (CP)  
Business Research (H)  
Computer Animation (H) (CP)  
Construction Technology (CP)  
Contemp issues/Global Eco. (H)  
Corporate Finance (H)  
Digital Literacy (CP)  
Early Child Development (CP)  
Early Child Education (CP)  
Economics & Finance (H) (CP)  
Engineering Graphics I, II, III (H) (CP)  
Engineering with Metals (CP)  
Entrepreneurship (H)  
Fashion Design & Retail (CP)  
Financial Literacy (H) (CP)  
Hand on Engineering (H)  
International Business (H)  
Learn to Play (H)  
Management & Leadership (H)  
Marketing I,II (H) (CP)  
Microsoft Office Cert (H)  
Nutrition/Culinary Arts I,II (CP)  
Project Management (H)  
Robotic Technology (H)  
Sports & Entertainment Marketing (H)  
Social Media Marketing (H)  
Tech Engineer Mkrspace (H)  
Urban Gardening (H) (CP)  
Video Production I,II (H) (CP)  
Video Technology I , II (H)  
Wood Technology I,II (CP)  
Work Study/Internships (CP)  
**FINE AND PERFORMING ARTS**  
A.P. Music Theory  
A.P. Studio Art  
Adv. Pottery/Ceramics (H)  
Advanced Art I, II /Portfolio (H)  
Advanced Drama (H)  
Art I (CP)  
Art II (CP)  
Art Gallery Management (H)  
Beg. Guitar (CP)  
Beg Piano (CP)  
Camerata Singers (H)  
Chamber Choir (H)  
Concert Band (H)  
Concert Choir (H)  
Digital Art (CP) (H)  
Digital Photojournalism (H)  
Drama Workshop I,II (CP)  
Intro to Photo Shop (CP)  
Intro. Graphic Design (CP)  
Jazz Ensemble (H)  
Jazz Improv. Workshop (H)  
Mixed Media & Alt Materials (H) (CP)  
Music Theory (H)  
Photo Advanced (H)  
Photography I, II (H) (CP)  
Pottery & Ceramics I,II (CP) (H)  
String Orchestra (H)  
Symphonic Band (H)  
Theatrical Set Design (CP)  
Wind Ensemble (H)  
Theater Tech Crew