

## What is the Academy of Aerospace and Engineering?

The Academy of Aerospace and Engineering is an exciting program for students in grades six through twelve. The Academy is focused on a Science, Technology, Engineering and Math (STEM) theme, but also has strong humanities and arts programs. The Academy is both a middle school and high school program that is dedicated to helping each student be college-ready and be prepared for career paths in the areas of Science, Technology, Bio-Medicine, Engineering and Mathematics.

## Is the Academy of Aerospace and Engineering right for me?

Academy students are students who:

- Have a strong interest in science, technology, engineering, and mathematics
- Want to be highly challenged in rigorous honors level classes
- Take an active part in their learning and are willing to work hard
- Enjoy hands-on science experiments using state-of-the-art technology and equipment
- Have a strong math background to build upon
- Seek a supportive, small school setting
- Desire to be part of a diverse learning community

## Advanced Math and Science Courses:

AP Biology  
AP Chemistry  
AP Physics C  
AP Statistics  
AP Calculus AB  
AP Calculus BC  
AP Computer Science  
River Ecology  
Environmental Science  
Meteorology  
Geological Hazards  
Physical Astronomy  
Oceanography  
Linear Algebra  
Multivariable Calculus  
Differential Equations  
Human Evolution Biodiversity  
Evolutionary Biology  
Molecular Biology  
Anatomy & Physiology  
Thermodynamics  
Material Science  
Nuclear Science  
Photonics  
Forensic Science  
Leadership in Science, Eng, and Medicine  
Robotics  
Computer Aided Design  
Web Design

## ACADEMY OF AEROSPACE AND ENGINEERING

15 Vernon Street  
Hartford CT 06106  
Phone: 860-757-6300  
Fax: 860-757-6399  
AAE-info@crec.org

### Open House Dates

Wednesday, October 19th 2011, 6:30 to 8:00 p.m.

Monday, November 7th 2011, 6:30 to 8:00 p.m.

Saturday, December 3rd 2011, 10:00 to 11:30 a.m.

Tuesday, January 10th 2012, 6:30 to 8:00 p.m.

## ACADEMY OF AEROSPACE AND ENGINEERING

**Excellence in Education**

# Academy of Aerospace and Engineering

**A Full-Day Program for Grades 6-12**

**High School Program Information**



### **How to Apply to the Academy**

Applications are made through the Regional School Choice Office:  
[www.choiceeducation.org](http://www.choiceeducation.org)  
165 Capitol Avenue, Room 270,  
Hartford, CT 06106  
860-713-6990

# AEROSPACE HIGH SCHOOL PROGRAM

## What does the Academy of Aerospace and Engineering offer that makes it unique?

- Focuses on skills and experiences in Science, Technology, Engineering and Math (STEM) fields
- Prepares students for college and career with 21<sup>st</sup> century skills including team work and problem solving
- Rigorous courses that help students become active learners
- Advanced Placement courses in math, science, English, and social studies
- Hands-on science curriculum with authentic science experiments
- Science labs rivaling many college undergraduate programs
- Unique & intensive math and science courses not found in most high schools
- State of the art learning technology in all classrooms
- A diverse student body from over 35 cities and towns in the Hartford region
- Small school with a highly dedicated staff and supportive student body
- Independent research options for interested and motivated students
- Comprehensive school to career programs including a distinguished speakers series and a career symposium
- Math team, computer programming teams, Robotics team, Biodiesel Project, and JETS teams
- Graduate acceptances at some of the nation's best colleges and universities

## What does a typical day at the Academy look like?

Ninth and tenth grades focus on building the foundations for success in our advanced eleventh and twelfth grade program and beyond. A typical schedule this year:

<b>Ninth Grade</b>	<b>Tenth Grade</b>
<b>Morning 7:30 – 10:30</b> <ul style="list-style-type: none"> <li>• <b>Physics</b></li> <li>• <b>Earth Science</b></li> <li>• <b>Algebra 1/Geometry/Algebra 2</b></li> </ul>	<b>Morning 7:30 – 10:30</b> <ul style="list-style-type: none"> <li>• <b>Biology</b></li> <li>• <b>Chemistry</b></li> <li>• <b>Geometry/Algebra 2/Pre-Calculus</b></li> </ul>
<b>Middle Day 10:30 – 12:30</b> <ul style="list-style-type: none"> <li>• <b>Lunch</b></li> <li>• <b>Arts Block and Engineering Block</b></li> </ul>	<b>Middle Day 10:30 – 12:30</b> <ul style="list-style-type: none"> <li>• <b>Lunch</b></li> <li>• <b>Arts Block and Engineering Block</b></li> </ul>
<b>Afternoon 12:30 – 4:00</b> <ul style="list-style-type: none"> <li>• <b>American Literature</b></li> <li>• <b>American History</b></li> <li>• <b>Spanish</b></li> <li>• <b>Physical Education</b></li> </ul>	<b>Afternoon 12:30 – 4:00</b> <ul style="list-style-type: none"> <li>• <b>English – Power of Voice</b></li> <li>• <b>Civics</b></li> <li>• <b>Spanish</b></li> <li>• <b>Physical Education</b></li> </ul>

The eleventh and twelfth grade program is focused on specialized courses for all students based on student interests and strengths.

<b>Eleventh Grade</b>	<b>Twelfth Grade</b>
<b>Morning 7:30 – 10:30</b> <ul style="list-style-type: none"> <li>• <b>World History (Honors/AP)</b></li> <li>• <b>World Literature (Honors/AP)</b></li> <li>• <b>Spanish</b></li> </ul>	<b>Morning 7:30 – 10:30</b> <ul style="list-style-type: none"> <li>• <b>Social Studies Electives</b></li> <li>• <b>English Electives</b></li> <li>• <b>Spanish</b></li> </ul>
<b>Middle Day 10:30 – 12:30</b> <ul style="list-style-type: none"> <li>• <b>Lunch</b></li> <li>• <b>Arts Block and Engineering Block</b></li> </ul>	<b>Middle Day 10:30 – 12:30</b> <ul style="list-style-type: none"> <li>• <b>Lunch</b></li> <li>• <b>Arts Block and Engineering Block</b></li> </ul>
<b>Afternoon 12:30 – 4:00</b> <ul style="list-style-type: none"> <li>• <b>Math Electives</b></li> <li>• <b>Science Electives</b></li> </ul>	<b>Afternoon 12:30 – 4:00</b> <ul style="list-style-type: none"> <li>• <b>Math Electives</b></li> <li>• <b>Science Electives</b></li> </ul>