

# Liberal Arts and Science Academy High School

## 2010-11 Academic Course Listing

### Signature Courses

Each is 1 semester long and is a two-period block.

Electronic Magazine (9th)  
 Science & Technology (9th)  
 Great Ideas (10th)  
 Planet Earth (10th)  
 Research Practicum I-II (11<sup>th</sup> and 12<sup>th</sup>)

### Core Courses

Each core course is offered two levels—typically **magnet** and **topics**—except for Algebra I, Freshman Biology and all Social Studies courses.

#### English Core (4.0)

English I  
 English II  
 AP English III (Language)  
 AP English IV (Literature)

#### Mathematics Core (4.0)

Algebra I (Magnet only)  
 Geometry  
 Algebra II  
 Precalculus

#### Science Core (3.0)

Biology  
 Chemistry  
 Magnet Physics, or  
 AP Physics B

#### Social Studies Core (4.0)

World Geography  
 World History  
 AP U.S. History  
 AP Government \*  
 AP Macroeconomics \*

### Language Arts Electives

Literary Magazine I-III  
 Music & Revolution \*  
 Science Fiction \*  
 Shakespeare \*  
 SAT Prep  
 Song Writing \*  
 Philosophy\*

### Mathematics Electives

Introduction to Mathematical Thought  
 AP Statistics  
 AP Calculus AB  
 AP Calculus BC  
 Differential Equations \*

Discrete Math \*  
 Multivariable Calculus  
 Linear Algebra \*  
 Number Theory \*  
 Mathematics Ind. Study \*

### Science Electives

Analytic Chemistry \*  
 Anatomy & Physiology  
 AP Biology  
 AP Chemistry  
 AP Environmental Science  
 AP Physics C  
 Aquatic Science  
 Astronomy  
 Biotechnology  
 Earth and Space Science  
 Environmental Philosophy & Policy  
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 Geology, Meteorology, &  
 Oceanography  
 Medical Microbiology \*  
 Modern Physics  
 Organic Chemistry \*  
 Pathophysiology \*  
 Science Olympiad

### Social Studies Electives

Amateur Radio \*  
 AP Comparative Government  
 AP European History  
 AP Microeconomics  
 AP Psychology \*  
 Constitutional Law \*  
 Contemporary Social Issues \*  
 Facing History \*  
 Mock Trial  
 Model United Nations  
 Sociology\*  
 Psychology \*

### Technology Electives

AP Computer Science A  
 Computer Science I  
 Computer Science III  
 Computer, Multimedia and  
 Animation  
 Desktop Publishing  
 Fundamentals of Networking I  
 Firefighter I-II  
 Internetworking I-II  
 Media Technology  
 Robotics I-III  
 Technology Independent Study

### Languages other than English

Chinese I-II  
 French I-III  
 French AP IV, Lang. & AP V, Lit.  
 AP French  
 German II-III  
 German AP IV, Lang. & V, Lit.  
 Japanese I-III  
 Japanese AP IV & V  
 Latin I-III  
 Latin IV, AP Vergil & AP V, Lit.  
 Spanish I-III  
 Spanish AP IV, Lang. & AP V, Lit.  
 French, German, Japanese, and Latin,  
 Spanish—Level VI

### Journalism

Newspaper I-II  
 Yearbook I-II  
 Adv. Journalism, Yearbook III  
 Adv. Journalism, Newspaper III  
 Journalism Independent Study

### Speech and Debate

Communications Applications\*  
 Debate I-III

### Visual Arts

Art I  
 Drawing II-III  
 Painting II-III  
 Ceramics II-III  
 AP Studio Art  
 AP Art 2D Design  
 AP Art 3D Design  
 AP Art History

### Performing Arts

Choir I-IV  
 Dance I-IV  
 Technical Theatre I-IV  
 Theater Arts I-IV  
 Theater Production I-IV

### Instrumental Music

Band I-IV — Marching, Concert,  
 Symphonic, Wind Ensemble  
 Orchestra I-IV  
 Jazz Band I-II  
 Music Theory II  
 AP Music Theory

### Health, P.E., and Athletics \*