

# IMSA

## 2009 Summer Programs

The internationally recognized Illinois Mathematics and Science Academy® (IMSA) develops creative, ethical leaders in science, technology, engineering and mathematics. As a teaching and learning laboratory created by the State of Illinois, IMSA enrolls academically talented Illinois students (grades 10-12) in its advanced, residential college preparatory program, and it serves thousands of educators and students in Illinois and beyond through innovative instructional programs that foster imagination and inquiry. IMSA also advances education through research, groundbreaking ventures and strategic partnerships. ([www.imsa.edu](http://www.imsa.edu))

For more information on the IMSA 2006 Summer Programs, contact:

Summer@IMSA, 1500 W. Sullivan Road  
Aurora, IL 60506-1000  
630-907-5950  
summerprograms@imsa.edu  
<http://www.imsa.edu/programs>

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@IMSA

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Illinois Mathematics  
and Science Academy®  
1500 W. Sullivan Road  
Aurora, IL 60506-1000

Although we strive for accuracy, if you see an error on your mailing label or would like to be removed from our mailing list, please email [summerprograms@imsa.edu](mailto:summerprograms@imsa.edu)



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AURORA, IL



Accepting Applications January 25, 2009

Check out our expanded offerings  
in Aurora, Carbondale, Lake County,  
and Springfield

See inside for our new offerings for  
high-school students and a complete list  
of programs...





## Day Programs

# IMSA 2009 Summer Programs

IMSA for All, all summer long with the Illinois Mathematics and Science Academy. Science, mathematics, and technology are all featured as part of the 2009 Summer@IMSA program line up. Many of your favorites are returning, like Summer Sleuths, Science Explorers and Science@IMSA. Included for the first time is a new 10th grade residential program—Energy@IMSA; for 5th-6th graders—Kidsplorations in Technology; and for 6-8th graders—Your Sense-Sational Senses.

We are excited to announce our expanded offerings in Springfield, hosted at Lincoln Land Community College; Carbondale at Unity Point School; and Lake County in the Rondout School District.

Summer@IMSA 2009 is sure to accelerate you into next year....

To learn more about Summer@IMSA 2009, scholarships, and program space availability, visit us online at: [www.imsa.edu/summerprograms](http://www.imsa.edu/summerprograms).

Grade Level Fall 09	Program Title	Location	Dates
3rd-4th	Science Explorers, Jr.	Aurora	June 15-19 or June 22-26
3rd-4th	Science Explorers, Jr.	Carbondale	June 15-19
3rd-4th	Science Explorers, Jr.	Springfield	August 3-7
5th-6th	Kidsplorations in Technology	Aurora	June 15-19 or June 22-26
5th-6th	Kidsplorations in Technology	Springfield	August 3-7
5th-6th	Science Explorers	Carbondale	June 15-19
5th-6th	Science Explorers	Aurora	July 6-10
5th-6th	Science Explorers	Lake County	July 20-24
6th-7th	Your Sense-Sational Senses	Aurora	July 13-17
6th-7th	Summer Sleuths	Aurora	July 20-23
7th-8th	Your Sense-Sational Senses	Aurora	July 6-10
7th-8th	Your Sense-Sational Senses	Springfield	August 3-7

Snack, T-shirt, and supplies are included for all camps.  
Lunch is provided as part of all the programs.

## Science Explorers, Jr.

During this year's Science Explorers, Jr., your inquiring young scientist will explore unusual science careers, dig through past civilizations and examine fossilized remains, investigate natural disasters, work to solve environmental issues, and play with color in chemistry, biology, and physics. There's a different topic for every day! This hands-on program is developed and taught by IMSA high school students with the help of IMSA staff. This year's Jr. topics are Natural Disasters and Weather, Oddball Scientist Jobs, Archeology and Paleontology, Color, and the Environment.

### Grades 3rd & 4th in the Fall 2009

Time: 8:30 a.m. – 3:00 p.m.

**Aurora** – IMSA

June 16-19, 2009 and June 22-26, 2009

**Carbondale** – Unity Point Elementary School

June 16-19, 2009

**Springfield** – Lincoln Land Community College

August 3-7, 2009

**Cost:** \$250

## **NEW!** Kidsplorations in Technology

Want to explore the connections between computers and engineering? The week-long experience will feature the basics of robotics, touch screen technology, and computer programming. When away from the computer, participants will be engaging in hands-on activities that will reinforce the concepts of computer science, math, and engineering. This camp is designed and taught by IMSA students with the supervision of IMSA staff.

### Grades 5th & 6th in the fall 2009

Time: 8:30 a.m. – 3:00 p.m.

**Aurora** – IMSA

June 15-19, 2009 and June 22-26, 2009

**Springfield** – Lincoln Land Community College

August 3-7, 2009

**Cost:** \$250

## Science Explorers

Science Explorers is ever evolving! In this year's program, your students will thoroughly examine the scientific evidence for evolution. Through inquiry-based, hands-on experiences, students will navigate through the history of man, explore adaptations, and hypothesize about past plants and animals. This program, which combines biology, ecology, paleontology, and other -ologies, is designed and taught by IMSA students with the help of IMSA staff.

### Grades 5th & 6th in fall 2009

Time: 8:30 a.m. – 3:00 p.m.

**Lake County** – Rondout School District

July 20-24, 2009

**Carbondale** – Unity Point Elementary School

June 14-17, 2009

**Aurora** – IMSA

July 7-10, 2009

**Cost:** \$250







## **NEW!** Your Sense-Sational Senses: Pathways to Learning

Students engage in inquiry and problem solving to explore how the senses provide input into the human learning process. They will participate in team activities to gather sensory data, use the information to pose questions, make predictions and hypotheses, and discover patterns. They will evaluate inferences, use appropriate statistical methods to help with data analysis and draw conclusions based on evidence. Taught by IMSA E2K+ faculty.

Participants in this program must either meet or exceed standards in math or science on their most recent ISAT results, or place in the upper 20% of their class on another test.

*NOTE: This program is an E2K+ unit that is regularly taught during the after-school program. The E2K+ Summer Program is offered as an opportunity for students who attend schools that DO NOT participate in IMSA Excellence 2000+*

**Grades 7th & 8th in fall 2009, July 6-10, 2009**

**Grades 6th & 7th in fall 2009, July 13-17, 2009**

**Time:** 8:30 a.m. – 3:00 p.m.

**Aurora** - IMSA

**Grades 7th & 8th in fall 2009**

**Time:** 8:30 a.m. – 3:00 p.m.

**Springfield** – Lincoln Land Community College

**Dates:** August 3-7, 2009

**Cost:** \$275.00

## Day Programs

### Summer Sleuths

Be on a team that searches for a solution to a real-world environmental problem. Investigate information from experts, experiments, and the Internet with help from IMSA students and guidance from local teachers. Accept this year's challenge to help shape the future.

We provide teachers and resources for bilingual-Spanish students (Investigaciones).



Check our web site ([www.pbln.imsa.edu/students](http://www.pbln.imsa.edu/students)) for information on last year's problem when NASA scientists challenged the Sleuths to consider the challenges of living and working in a lunar outpost.

**Grades 6th - 9th in fall 2009**

**Time:** 9:00 a.m. – 3:00 p.m.

**Aurora** - IMSA

**July 20-23, 2009**

**Cost:** \$225



# Residential Programs



## Math@IMSA

Explore mathematics through games and logic, probability, discrete math, and triangular numbers. This hands-on, minds-on camp is taught by IMSA faculty and students. The participants work in small and large groups to discover the fun in math. During this co-ed program, participants live in the IMSA residence halls and enjoy free time and organized activities in the evening.

### Grades 8th & 9th in fall 2009

**Aurora** – IMSA

**Dates:** Sunday, July 19-24, 2009

**Cost:** \$650

### Student Participant Personal Statement Needed:

Math can tell a story and help us solve problems. Write a math story in 250 words or less that explains how math solved a problem

## BioTech@IMSA

Students who are thinking of applying to IMSA's residential high school program will get their feet wet in this one of a kind co-ed IMSA experience. Participants will attend a week-long Biotechnology course to explore DNA and enzymes, taught by IMSA faculty with help from IMSA students. This program will have evening work that applies to the next day's classes as well as free time.

### Grade 9th in fall 2009

**Aurora** – IMSA

**Dates:** Sunday, July 19-24, 2009

**Cost:** \$700

### Two Student Participant Personal Statements Needed:

1. Write an acrostic poem using the word BIOTECH.
2. Fifty years from now in 2058 the Nobel Selection Committee has awarded you the Nobel Prize in Biotechnology. They ask you to submit your autobiography, limited to 250 words. Write that autobiography.

Grade Level Fall 09	Program Title	Dates
8th-9th	Science@IMSA for Girls	July 12-17
8th-9th	Math@IMSA	July 19-24
8th-9th	Science@IMSA for Boys	July 26-31
9th	BioTech@ IMSA Residential	July 19-24
9th	PROMISE Program	June 14-26
10th	Energy@IMSA Residential	June 21-26

## Science@IMSA

Explore engineering, from robotics and mechanics to the engineering of the human body. This single sex residential experience for middle school students is taught by IMSA staff and students. Participants live in the IMSA residence halls and enjoy free time and organized activities in the evening.

### Grades 8th & 9th in fall 2009

**Aurora** – IMSA

### Dates:

FOR GIRLS: Sunday, July 12-17, 2009

FOR BOYS: Sunday, July 26-31, 2009

**Cost:** \$650

### Student Participant Personal Statement Needed:

2009 is the Year of Science. Please describe, in 250 words or less, the greatest contribution to science in the last 100 years, and how it impacts all of our lives.



## **NEW!** Energy@IMSA

Bring your enthusiasm and ENERGY to IMSA this summer. This co-ed residential program is for the serious, rising 10th grade student who is avidly interested in energy explorations and alternative possibilities. Participants will spend a week exploring energy through chemistry and physics. Energy@IMSA is taught by IMSA faculty and students. This program will have evening work that applies to the next day's classes. In addition, there will be some free time and organized activities for the evenings.

**Grade 10th in fall 2009**

**Aurora – IMSA**

**DATES:** Sunday, June 21-26, 2009

**Cost:** \$ 800

### **Two Student Participant Personal Statements Needed:**

1. You are stranded on a desert island. The island contains an abandoned boat with an engine but no fuel. Describe, in 300 words or less, the island and your plans for survival, including how you would utilize the boat.
2. Draw a picture, diagram or graphic interpretation of "energy."

## **PROMISE Program - Middle School**

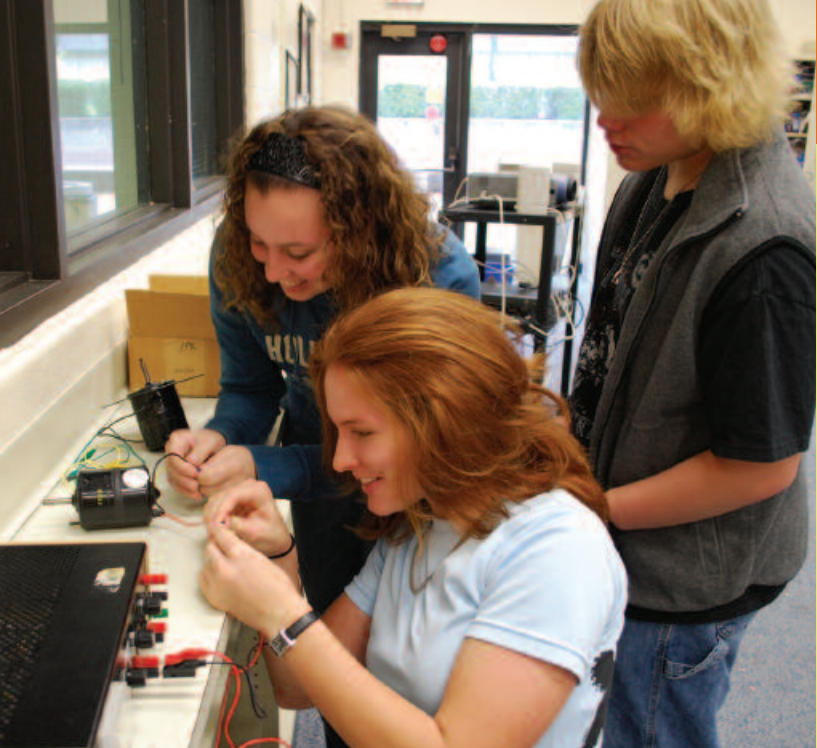
Talented underrepresented and economically disadvantaged students enjoy an intense two-week, summer residential opportunity on the IMSA campus that stimulates interest and develops skills in math, science and English through group inquiry and problem-solving, and promotes interpersonal growth as well as academic growth. In addition, there will be some free and organized activities in the evenings. This selective program requires submission of a separate application. To register go to [www.imsa.edu/summerprograms](http://www.imsa.edu/summerprograms)

**Grade 9th in fall 2009**

**Aurora – IMSA**

**Dates:** Sunday, June 14-26, 2009

Program does not include a weekend residential experience.



# Teacher Recommendation

Legal Name of Applicant

## Information Release

As parent/guardian of the above named student, I grant permission for the disclosure of all pertinent school information to the Illinois Mathematics and Science Academy staff.

Parent Signature

Date

The student's math or science teacher should answer the following questions.

Name of teacher completing this form

School

School Address

Subject(s) taught

Length of time you have known this student

Work phone

Email

How would you describe this student's

Exceptional

Average

Poor

1. intellectual curiosity

5

4

3

2

1

2. creativity

5

4

3

2

1

3. leadership

5

4

3

2

1

4. classroom performance and preparation

5

4

3

2

1

5. ability to work in group situations

5

4

3

2

1

6. ability to work independently

5

4

3

2

1

What is this student's interest level...

7. in studying science

5

4

3

2

1

8. in studying mathematics

5

4

3

2

1

In your opinion what is the student's ability...

9. in science

5

4

3

2

1

10. in mathematics

5

4

3

2

1

Please provide any additional information that should be considered when evaluating this student for participation in the IMSA Summer 2009 program on a separate sheet.

Teacher's signature

**Thank you for completing this form.**

**Please mail completed form to:** Summer@IMSA, 1500 W. Sullivan Rd, Aurora, IL 60506 or fax it to 630-907-5880



## 2009 Summer Program Registration

Student Name:	First	Last	MI
Home Address			
City	State	Zip	
<input type="radio"/> Female <input type="radio"/> Male			
Birthdate: ____/____/____			
Grade entering Fall 2009: <input type="radio"/> 3rd <input type="radio"/> 4th <input type="radio"/> 5th <input type="radio"/> 6th <input type="radio"/> 7th <input type="radio"/> 8th <input type="radio"/> 9th <input type="radio"/> 10th			
County where you reside in IL			
Ethnicity (check all that apply) (This information is requested so we may report statistical data regarding our participants to the State of Illinois and/or other program funders. Only aggregate data will be shared. Summaries will not contain individual information. Please pick one or more from the list below)			
<input type="radio"/> Hispanic or Latino(a) <input type="radio"/> Asian <input type="radio"/> Caucasian			
<input type="radio"/> American Indian or Alaskan Native <input type="radio"/> Black or African American <input type="radio"/> Bi/Multiracial			
<input type="radio"/> Native Hawaiian or other Pacific Islander			
Parent/Legal Guardian name, with whom you live			
Parent/Guardian phone: Home Cell Work			
Parent/Guardian e-mail			
School name			
School address			
Name of teacher who will be completing your recommendation			

Indicate T-Shirt Size: **Youth** ☐ 8-10 ☐ 14-16 **Adult** ☐ S ☐ M ☐ L ☐ XL  
If you do not indicate a size, an Adult Medium will be assigned to your child

### Registrations ends Friday, May 29, 2009.

Programs fill quickly and are first come first served, please apply soon. Any received after that date should include a late fee of \$25

For questions about the programs call 630-907-5950 or e-mail [summerprograms@imsa.edu](mailto:summerprograms@imsa.edu)

IMSA programs are accessible to disabled individuals. State government policy prohibits discrimination based on race, sex, color, creed, religion, national origin, age and ancestry, sexual orientation, political affiliation or disability.

#### Cancellation Policy

If insufficient students register for the program, IMSA reserves the right to cancel that program. Parents will be notified 2 weeks prior to the start date of a program and a full refund will be given.

#### Refund Policy

If after being accepted to a program, you choose to withdraw, please submit a written refund request. If it is received at IMSA on or before May 29, 2009, then a refund will be issued for the full payment minus a \$50.00 non-refundable registration fee. If you withdraw after May 29, 2009 no refund will be issued.

### Signature

Your signature indicates that you support your child's full participation in Summer@IMSA programs. You will also provide or arrange appropriate transportation to and from IMSA. Your signature gives permission for your child's photograph to be taken and used for educational and promotional purposes by IMSA.

Parent/Guardian Signature

Date

## Program Selection

(please check the program for which you are registering)

- |  |       |
|--|-------|
| <input type="checkbox"/> <b>Science Explorers, Jr.</b>                 | \$250 |
| AURORA (3rd -4th grades) June 15-19 & June 22-26                       |       |
| <input type="checkbox"/> <b>Science Explorers, Jr.</b>                 | \$250 |
| CARBONDALE (3rd -4th grades) June 15-19                                |       |
| <input type="checkbox"/> <b>Science Explorers, Jr.</b>                 | \$250 |
| SPRINGFIELD (3rd -4th grades) August 3-7                               |       |
| <input type="checkbox"/> <b>Kidsplorations in Technology</b>           | \$250 |
| AURORA (5th -6th grades) June 15-19 & June 22-26                       |       |
| <input type="checkbox"/> <b>Kidsplorations in Technology</b>           | \$250 |
| SPRINGFIELD (5th -6th grades) August 3-7                               |       |
| <input type="checkbox"/> <b>Science Explorers</b>                      | \$250 |
| CARBONDALE (5th -6th grades) June 15-19                                |       |
| <input type="checkbox"/> <b>Science Explorers</b>                      | \$250 |
| AURORA (5th -6th grades) July 6-10                                     |       |
| <input type="checkbox"/> <b>Science Explorers</b>                      | \$250 |
| LAKE COUNTY (5th -6th grades) July 20-24                               |       |
| <input type="checkbox"/> <b>Summer Sleuths</b>                         | \$225 |
| AURORA (6th -9th grades) July 20-23                                    |       |
| <input type="checkbox"/> <b>Your Sense-Sational Senses</b>             | \$275 |
| AURORA (6th -7th grades) July 13-17                                    |       |
| <input type="checkbox"/> <b>Your Sense-Sational Senses</b>             | \$275 |
| AURORA (7th-8th grades) July 6-10                                      |       |
| <input type="checkbox"/> <b>Your Sense-Sational Senses</b>             | \$275 |
| SPRINGFIELD (7th-8th grades) August 3-7                                |       |
| <input type="checkbox"/> <b>Science@IMSA Girls Residential Program</b> | \$650 |
| AURORA (8th-9th grades) July 12-17                                     |       |
| <input type="checkbox"/> <b>Science@IMSA Boys Residential Program</b>  | \$650 |
| AURORA (8th-9th grades) July 26-31                                     |       |
| <input type="checkbox"/> <b>Math@IMSA Residential Program</b>          | \$650 |
| AURORA (8th-9th grades) July 19-24                                     |       |
| <input type="checkbox"/> <b>BioTech@IMSA Residential Program</b>       | \$700 |
| AURORA (9th grade), July 19-24   |       |
| <input type="checkbox"/> <b>PROMISE Program</b>                        | *     |
| AURORA (9th grade) June 14-26  |       |
| <input type="checkbox"/> <b>Energy@IMSA Residential</b>                | \$800 |
| AURORA (10th grade), June 21-26  |       |

\*Do not use this form for PROMISE Program application. To apply go to our web site at <http://www.imsa.edu/studentprograms> or call 630-907-5028 for application.

**Need based scholarships are available to students who could not otherwise attend. In order to be considered for a scholarship a student must have completed both a registration form and a scholarship application. To receive an application or for more information please call 630-907-5950 or email [summerprograms@imsa.edu](mailto:summerprograms@imsa.edu)**

Payment Method: ☐ Check ☐ Credit Card  
*No Discover Cards Please* ☐ VISA ☐ MC

**Checks payable to: IMSA (No Cash Please)**

Credit Card Number + 3-Digit Extension (on back of card)

Exp. Date

Billing Address

Signature

# How to Register:



## ONLINE REGISTRATION FOR SUMMER@IMSA or PROMISE

1. Go to [www.imsa.edu/summer programs](http://www.imsa.edu/summer programs)
2. Click on REGISTER ONLINE.
3. Create an account (if you don't have one already).
4. Register for programs.
5. Check out using a credit card or online check.
6. Obtain a Teacher Recommendation form (attached to this brochure) and have it filled out. A teacher recommendation **MUST** be completed to be accepted to any program.
7. Receive Confirmation: A payment confirmation will be emailed to you after we have received and processed your payment.
8. When your application is complete with teacher recommendation and you have been accepted into the program you will receive an official acceptance letter. A detailed program letter will be mailed prior to the beginning day of the program.
9. All applications (with exception of PROMISE applications) are due Friday, May 29, 2009. Any application that is received after that date should include an additional \$25.00 late fee.

## MAIL or FAX REGISTRATION FOR SUMMER@IMSA ONLY

For PROMISE program please go to  
[www.imsa.edu/summerprograms](http://www.imsa.edu/summerprograms) or call 630-907-5028

1. Complete the Application Form: Fill out an application form for each child (please photocopy form if necessary).
2. Obtain a Teacher Recommendation: a teacher recommendation **MUST** be completed to be accepted to any program.
3. Make Payment: Checks (payable to IMSA) or credit cards (Visa/Mastercard) are accepted. **NO CASH, PLEASE!**
4. Mail in the Application: Please mail the application form with full payment (when appropriate) for the program to reserve a space. You may also fax your completed application with credit card number to 630-907-5880. **NO PHONE APPLICATIONS** will be taken.
5. Receive Acceptance Confirmation: An Acceptance Confirmation will be mailed to you after we have received your completed application and teacher recommendation and you have been accepted into the program. A detailed program letter will be mailed prior to the beginning day of the program.
6. All applications (with exception of PROMISE applications) are due Friday, May 29, 2009. Any application that is received after that date should include an additional \$25.00 late fee.

### Additional Information: Scholarships

Need based scholarships are available to students. For more information about scholarships visit our web site at [www.imsa.edu/programs](http://www.imsa.edu/programs), call 630-907-5950 or email [summerprograms@imsa.edu](mailto:summerprograms@imsa.edu)

### Wait Lists

If the program for which you are applying is full when your application is received, your child will automatically be added to a wait list and you will be notified by mail. Your check will be returned or your credit card will not be charged. If space becomes available, we will contact you. Summer@IMSA programs fill quickly! Please mail your complete registration with payment to reserve your space.