



## The University of Chicago Young Scholars Program For Mathematically Talented Youth

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Summer 2012: July 2 - 27, 2012  
11<sup>th</sup> and 12<sup>th</sup> Grade Component

The Young Scholars Program for mathematically talented students who have just completed grades 10 and 11 will take place at the University of Chicago from July 2<sup>th</sup> to July 27<sup>th</sup>, 2012. This is a continuation of the program which began in the summer of 1988. **The program is free to all students;** funds for YSP are provided by the Materials Research Science and Engineering Center at the University of Chicago, the National Science Foundation, the Office of Academic Enhancement of the Chicago Public Schools, the Educational Advancement Foundation, the Epsilon Fund of the American Mathematical Society, and the Mathematics Department of the University of Chicago.

The program for eleventh and twelfth graders will consist of two courses. The main course will deal with finite fields, algebraic extensions of the rational numbers, and the beginnings of Galois Theory. This course will be taught by Dr. Arunas Liulevicius, Professor of Mathematics. The second course in the program will be a course in applications in mathematics.

The aim of the program is to strengthen the participants' mathematical powers through a deep experience in mathematical thought and effort. Our intention is to broaden and enrich the students' understanding of mathematics rather than to accelerate them through the standard high school curriculum.

The first day of the program will be Monday, July 2<sup>rd</sup>, 2012. **Students must be able to attend all four weeks of the program.**

The program will take place Monday through Friday from 9:30AM to 2:30PM (except on Fridays when the program will end at 12:00 noon). Mornings will be spent in lectures led by Dr. Liulevicius. Students will be given an hour break during the day for lunch. Lunch will be provided on campus for all participants. Each day, the students will be divided into small groups, with each group conducted by a seminar leader who will discuss homework problems and the ideas underlying the day's lectures.

**We will be unable to provide assistance with housing or transportation. Space in the program is extremely limited. Because of the highly competitive nature of the program, if you are offered admission into the program and accept, you must attend all meetings for the four weeks of the program.** If there is any reason for a possible absence, we must be informed of such anticipated absences with the acceptance of admission. Students who accept admission and do not attend every session will not be considered for future programs.

FOR MORE INFORMATION AND APPLICATION FORMS, WRITE OR CALL:

Young Scholars Program e-mail: [ysp@math.uchicago.edu](mailto:ysp@math.uchicago.edu)  
Young Scholars Program phone number: (773) 702-7389

A handwritten signature in black ink that reads "Paul J. Sally, Jr." with a stylized flourish at the end.

Professor Paul J. Sally, Jr.  
Director of Summer Programs  
email: [sally@math.uchicago.edu](mailto:sally@math.uchicago.edu)



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**Application Form:** (Please PRINT or TYPE)

Name \_\_\_\_\_ Male/Female \_\_\_\_\_ Birth Date \_\_\_\_/\_\_\_\_/\_\_\_\_  
(Last, First Middle) (MM/DD/YY)

Permanent Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Telephone (\_\_\_\_\_) \_\_\_\_\_ Grade completed by June 2012: \_\_\_\_\_

Email: \_\_\_\_\_

Name of Parent(s) or Guardian: \_\_\_\_\_

Name of Math Teacher: \_\_\_\_\_

Current Mathematics Course: \_\_\_\_\_

School's Name: \_\_\_\_\_

School's Address: \_\_\_\_\_

**Check List for Applicants:**

- \_\_\_\_\_ Completed and *signed* application form
- \_\_\_\_\_ Teacher recommendation
- \_\_\_\_\_ Short essay
- \_\_\_\_\_ High school transcript

**Teacher Recommendation:** Please have your mathematics teacher send us a letter of recommendation on the attached form. We strongly prefer that the attached form be used. (The letter of recommendation must be sealed.)

**Short Essay:** On a separate sheet of paper write us a short essay about your interest in mathematics.

**High School Transcript:** An official transcript from your high school must be sent to us.

Send this completed and signed form, along with the accompanying materials, to:

**Young Scholars Program**  
Department of Mathematics, University of Chicago  
5734 South University Avenue  
Chicago, IL 60637

Applications must be received by **May 18**. Late applications may not be considered. Successful applicants will be notified by mail in early June. We will not notify applicants as to their admission status over the phone. **Applications without an essay, transcript, or teacher recommendation will NOT be processed.**

I understand that if admission into the program is offered and accepted, the student must attend all meetings for the four weeks of the program. Students who fail to attend all meetings will not be considered for admissions to future programs.

Signature of parent or guardian \_\_\_\_\_ Date \_\_\_\_\_