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 June 30th to July 25th, 2014. This program was founded in the summer of 1988 by the University of Chicago mathematicians Paul J. Sally, Jr. and Diane Herrmann. 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 cover advanced number theory and finite fields. The second course in the program will be a proof-based course on the foundations of mathematics that will be taught in the style of inquiry based learning (IBL), in which students collaborate with the help of the instructor and counselors to present problems and solutions to their classmates.

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, June 30th, 2014. There will be no class on Friday, July 4th. 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). Each morning, students will attend an IBL lesson on the foundations of mathematics before breaking into problem solving sessions, with each group led by a seminar leader who will discuss problem sets and the ideas underlying the lectures. Afterward, they will attend IBL sessions on advanced geometry and knot theory. Lunch will be provided on campus for all participants.

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
Young Scholars Program phone number: (773) 702-7389

Professor Robert Fefferman
Director of the Young Scholars Program
e-mail: rfefferm@uchicago.edu

Ms. Julienne Au
Co-Director of the Young Scholars Program
e-mail: jau@uchicago.edu
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 2014: _____________

Email: _______________________________________________________________________________

Name of Parent(s) or Guardian: _________________________________________________________

Name of Math Teacher: _________________________________________________________________

Current Mathematics Course: __________________________________________________________

School’s Name: _______________________________________________________________________

School’s Address: _____________________________________________________________________

Have you been in YSP before? If so, when? _______________________________________________

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
and fill out the attached form. The letter of recommendation must be sent to us in a signed and sealed
envelope.

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 (208C), University of Chicago
5734 South University Avenue
Chicago, IL 60637

Applications must be received by May 16, 2014. Late applications may not be considered. All
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 or teacher recommendations 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 ___________