



TURNING AROUND SCHOOLS

Fill this form out only if you're a non-certified applicant

Your name: \_\_\_\_\_

Date: \_\_\_\_\_

### Class of 2013 Secondary Math Transcript Analysis Form

AUSL's residency program offers the opportunity for qualified non-certified candidates to earn an initial Illinois Secondary teaching certificate (Type 09), which is valid for teaching from grades six through twelve. The Math field requires 32 semester hours (including 12 SH upper level). **Any remaining hours (must be above Calculus) will go under Electives.**

The below coursework reflect state requirements to get certified in the state of Illinois.

Referencing your transcripts, fill it out to the best of your ability and return to AUSL. National Louis University will provide a formal coursework evaluation prior to entrance into the program.

**Do you have questions about filling out this form? Read our Transcript Analysis Form Guide.**

Coursework Requirement	Course Number (i.e. Eng 101)	Course Name	Course Grade (can't use pass/fail)
<b>12 SH:</b>			
Calculus (6 SH)			
Geometry (6 SH) – <u>Upper Level</u>			
<b>20 SH including course work in all of the following areas:</b>			
Abstract/Modern Algebra (3 SH)			
Discrete Math (3 SH)			
History of Math (3SH)			
Linear Algebra (3 SH)			
Math Electives (2 SH)			
Probability & Statistics (3 SH)			
Number Theory (3SH)			

Check one:

Mail, fax or email your completed form to AUSL

Phone 773. 534.0129

Email admissions@ausl-chicago.org

1

fax 773. 283.0903



TURNING AROUND SCHOOLS

**Fill this form out only if you're a non-certified applicant**

**Your name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

\_\_\_ Based on my review of my transcripts, I believe I have met all of the academic course work requirements above.

\_\_\_ Based on my review of my transcripts, I believe I have the following gaps relative to the state requirements (list subject and number of hours missing):

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Residents can come in with a maximum of 6 SH of deficiencies of which only 3 SH may be upper level coursework.** These need to be made up prior to the end of the program. Any coursework over 6 semester hours will need to be made up prior to the start of the program. [Reference the deficiency guides on our website for more information.](#)

*Mark below & submit documentation of appropriate content area & basic skills test status*

\_\_\_ I am registered to take the Illinois Test of Basic Skills on \_\_\_\_\_ (date). Enclosed is a copy of the email registration from the testing service which confirms my registration for the test.

\_\_\_ I am registered to take the Mathematics Content Area Test # 115 on \_\_\_\_\_ (date). Enclosed is a copy of the email registration from the testing service which confirms my registration for the test.

\_\_\_ I have passed one or both of the required tests. A copy of my results is enclosed.

**Test registrations and/or test scores are needed to complete your file.** Please send in copies of official test scores as you receive them. Note the last test date to take state tests and still be considered for the AUSL program is **April 14, 2012.**

**Mail all materials to us as soon as possible – we review files as they become complete. Don't wait until the next deadline to submit all your documents, as residency spots are limited.**

**Mail to:**

Academy for Urban School Leadership  
Attn: Admissions Department  
P.O. BOX 34990  
Chicago, IL 60634

**Guidelines for Mathematics Coursework Descriptions**

**1. CALCULUS (6 semester hours)**

These courses should cover the topics of limits, continuity, differentiation and applications of integration and possibly some topics from analytic geometry. The courses meeting this requirement should be sequential in nature.

**2. GEOMETRY (6 semester hours)**

Courses within this area should contain the study of axiom and postulate-based deductive systems, Euclidean geometry transformations, non-Euclidean geometry transformations, tessellations,

**Mail, fax or email your completed form to AUSL**

Phone 773. 534.0129

Email [admissions@ausl-chicago.org](mailto:admissions@ausl-chicago.org)

2

fax 773. 283.0903



TURNING AROUND SCHOOLS

**Fill this form out only if you're a non-certified applicant**

**Your name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

polyhedral and other related topics. Courses such as projective, affine and topology fit here. Three semester hours of an analytic geometry or trigonometry can be placed here. The remaining three semester hours of geometry must be upper (300/400/graduate) level.

**3. ABSTRACT/MODERN ALGEBRA (3 semester hours)**

Courses within this area should contain work dealing with groups, rings, integral domains and fields, introduction to integers, real and complex numbers, as well as the ring polynomials over the real numbers. The course should also contain some work dealing with quotient rings, isomorphism's and homomorphism's. Courses with such titles as group theory, ring theory and field theory will fit in this area.

**4. DISCRETE MATHEMATICS (3 semester hours)**

Coursework within this area will involve the elements of graph theory, recurrence relations, finite difference approaches, linear programming and combinatorics. Coursework can also contain discrete structures and the application of algorithms. Courses with titles such as finite math, symbolic logic, data structures and discrete structures would also fit in this area.

**5. HISTORY OF MATH (3 semester hours)**

Coursework in this area provides a survey of the historical development of mathematics from early time to the present with a focus on problem-solving. Mathematical problems representative of significant contributions in numeration, algebra, geometry, combinatorics, and number theory are emphasized. Biographies of mathematicians focus on the type of problems solved and the methods of solutions employed with an examination of the historical context.

**6. LINEAR ALGEBRA (3 semester hours)**

The content of the course should include matrices and their operations, solutions of systems and equations, vector spaces, linear transformation, eigenvalues and eigenvectors and applications of linear algebra. A course in matrix algebra or matrix theory will fit in this area.

**7. MATH ELECTIVES (2 semester hours)**

Coursework in this area could vary greatly. Courses with titles such as applied math, differential equations, history of math, numerical analysis, computer science (must be math-based), multivariable calculus, modeling, math functions, complex structures and math structures will fit in this area.

**8. NUMBER THEORY (3 semester hours)**

Coursework in this area should look at some classical problems concerning the integers, including the solution of Diophantine equations; the distribution of prime numbers; the theory of congruence's; quadratic reciprocity; and the theory of continued fractions.

**9. PROBABILITY & STATISTICS (3 semester hours)**

Coursework in this area should contain the treatment of topics such as counting, permutations, combinations, sample spaces, relative frequency probability, random variables, confidence intervals, inferential statistics, distributions and correlation. A statistics in other areas (business, economics, etc.) may be placed here.

**Mail, fax or email your completed form to AUSL**

Phone 773. 534.0129

Email [admissions@ausl-chicago.org](mailto:admissions@ausl-chicago.org)

3

fax 773. 283.0903