A Math Specialist is one who is passionate about teaching and wants to further develop their mathematical knowledge, their teaching skills, and their ability to mentor and support the professional development of their fellow teachers.

MSIS - Mathematics Specialists in International Schools

- A 2 year mathematics specialist certificate program for K-8 teachers of mathematics
- Based on mathematics content from the AERO/Common Core standards
- Offering optional graduate credit at additional cost from SUNY Buffalo

Schedule

American School of Warsaw
November 8-10, 2013

CEESA
March 13-15, 2014
March 12-14, 2015

ECIS
November 19-21, 2014

1 Week Summer Institute
2014 or 2015

The Mathematics Specialist Program is designed for classroom teachers of mathematics in grades K-8.

The program is a cohort program made up of 15 credit hours of coursework focusing on mathematics content specific to K-8 AERO/Common Core.

The design of the program is a coherent sequence of 5 Institutes designed to expand teachers' understanding of the AERO/Common Core Standards, how students learn that content, evidence of student understanding, and how to work with peers in a mentoring relationship.

The Mathematics Specialist In International Schools Program leads to a Mathematics Specialist Certificate. Optional graduate credit is available from SUNY Buffalo

Admission Requirements:
- Bachelor's Degree from an accredited institution;
- A valid Education Teaching License;
- Currently employed teaching K-8 in an international school for a minimum of 3 years;
- A letter of interest expressing a 2 year commitment to the project;
- A letter of recommendation from a current school administrator.
- Agree to a 2 year commitment

Cost:
Tuition is approximately €600 per Institute (exclusive of transportation and room/board.)

SUNY Buffalo credit is optional, $500 per 3 credit graduate course.

Certificate Requirements
- Attend and participate in four 3 day face to face institutes during the 2013-14 and 2014-15 school year;

- Attend and participate in one of the two scheduled summer institutes, Summer 2014 or Summer 2015;

- Participate in online follow-up discussions and requirements following each face to face institutes.

For more information contact:

swilliams@aswarsaw.org

Schedule

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1 Week Summer Institute
2014 or 2015

Each face-to-face is followed with an online component that will focus on the assessment of the strand.

For more information contact:

swilliams@aswarsaw.org

MSIS - Mathematics Specialists in International Schools

- Fall 2013 Institute - **Numbers and Operation**

The focus is on the content and the Common Core Mathematical Practices that support common core Standards. Attention will be given to ways of representing numbers, relationship between numbers, number systems, the meanings of operations and how they relate to one another, and computation within the number system as a foundation for algebra.

- Spring 2014 Institute - **Algebra and Functions**

The focus is on the content and the Common Core Mathematical Practices that support the algebra and Functions progressions of the AERO/Common Core Standards. Attention will be given to the transition from arithmetic to algebra, working with quantitative change, and the description of and prediction of change.

- Summer 2014 OR Summer 2015 - **Analysis of Teaching and Learning in the Mathematics Classroom**

The focus is on extending the ability to assess conceptual and procedural understanding using ongoing and cumulative assessment methods. Participants will examine current research related to assessment to direct and improve instructional practices, explore the way in which different assessment methods can be aligned with specific learning targets, develop skills in creating specific clarifying and probing questions, learn to distinguish between what students know and the way students show what they know, and incorporate knowledge of students' thinking into instructional planning.

- Fall 2014 Institute - **Rational Numbers and Proportional Reasoning**

The focus is on the content and the Common Core Mathematical Practices that support the Rational Numbers and Proportional Reasoning progressions of the AERO/Common core Standards. Attention will be given to the basic number progressions in fractions and rational numbers, decimals and percents, and ratios and proportions to develop both rational number concepts and skills and proportional reasoning.

- Spring 2015 Institute - **Geometry and Measurement**

The focus is on the content and the Common Core Mathematical Practices that support the Geometry and Measurement progressions of the AERO/Common Core Standards . Attention will be given to the foundations of informal measurement and geometry in one, two and three dimensions. The van Hiele model for geometric learning will be used as the framework for how children build their understanding of length, area, volume angles, and geometric relationships.