

Tentative Schedule for CTTI Cohort II *Math*

Type	Activity (and location)	Draft Dates
Network	Day-long symposium on CTTI	June 4, 2011
Workshop 1	Leadership in schools (UIC)	June 22 – June 24, 2011
Course 1	<i>Making sense of numbers & symbols:</i> The course will discuss how concrete exploration of number can help students make sense of the symbolic algebraic manipulations necessary for success in high school and early college mathematics. (DePaul)	June 27 – July 21, 2011
Network	Day-long symposium on CTTI	September, 2011
Course 2	<i>Data analysis and modeling:</i> This course integrates science content with mathematics, building on classical experiments from 17th century physics and 18th century chemistry. Teachers will explore linear, exponential, quadratic, and power functions in data modeling and science, using graphing calculators and probes. (UIC)	Fall, 2011
Course 3	<i>Logic across the high school curriculum—making sense internally:</i> The course will emphasize the basic logical distinction between proof from axioms and truth in a mathematical structure. (DePaul)	Spring, 2012
Course 4	<i>Investigating pedagogical content knowledge for mathematics teaching:</i> Teachers will identify and explore the mathematical themes that will form the content of 12th grade courses. This course will draw on the three content courses as well as the workshop on course planning and implementation. (UIC)	Summer, 2012
Workshop 2	Leadership in mathematics teaching (DePaul)	Summer, 2012
Network	Day-long symposium on CTTI	September, 2012
Workshop 3	Incorporating new science and mathematics content into HS programs (monthly meetings)	Fall, 2012 – Spring, 2013

Tentative Schedule for CTTI Cohort II *Life and Environmental Science*

Type	Activity (and location)	Draft Dates
Network	Day-long symposium on CTTI	June 4, 2011
Workshop 1	Leadership in schools (UIC)	June 22 – June 24, 2011
Course 1	<i>Environmental Issues: Focus on Water:</i> Teachers will use qualitative and quantitative analytical tools to describe processes in natural and engineering systems, applying these methods to Chicago-area environmental scenarios, including lakes and reservoirs, streams and rivers, and environmental reactor systems. (Northwestern)	Summer, 2011 (most likely June 27 – July 29)
Network	Day-long symposium on CTTI	September, 2011
Course 2	<i>Energy:</i> The “greening” of society requires the development of new materials to transform energy, especially solar energy, and to store it in the form of advanced batteries. The concept of a fuel will also be covered, including the potential for biofuels. (IIT)	Fall, 2011
Course 3	<i>Energy, Transportation, and the Environment:</i> This course uses the automobile to provide teachers with an integrated study of fundamental chemistry (thermodynamics, atmospheric chemistry, free radical reactions), industrial production, energy use, and public policy. (Northwestern)	Spring, 2012 (most likely January 3 – March 16)
Course 4	<i>Investigating pedagogical content knowledge for science teaching:</i> Science education has advanced on many fronts through the formulation of overall conceptual frameworks and the development of research-based understandings of student learning. This final course will cover recent research in the teaching and learning of science. (IIT)	Summer, 2012
Workshop 2	Leadership in science teaching (IIT)	Summer, 2012
Network	Day-long symposium on CTTI	Sept., 2012
Workshop 3	Incorporating new science and mathematics content into HS programs (monthly meetings)	Fall, 2012 – Spring, 2013