



Clover Park Technical College Student Center,  
April 24, 2008

## **Math/CTE Partnership Institute: Building Partnerships for Increasing Opportunities in Math**

Two workshops in a series of 4 took place on Thursday April 24, 2008, and October 28, 2008. Both workshops were held at Clover Park Technical College, and confirmed the importance of bringing math and CTE together to work on math teaching and learning:

- one of the best ways to illustrate the relevance of math, and communicate math expectations to students, is to enhance math in other disciplines;
- contextual learning, as exemplified by CTE Programs, benefits all students and is critical for at-risk students who are not succeeding in traditional math classes;
- the state is providing a CTE option for a third year of math credit; this option needs to be defined by math and CTE educators working together.

**Governor Christine Gregoire endorsed the workshop series for supporting students through a focus on math applications and learning across disciplines.**

While it is critical for math and CTE educators to work together, these groups of educators typically have not collaborated in the past. **Results of formative evaluation indicate the workshops succeed in helping educators build cross-discipline partnerships**, identify ways of integrating math into CTE courses, and in the value of the College Readiness Standards in bridging math and CTE. Between the start of the workshop and the end of the April workshop:

- There was a 19% increase in the number of educators who identified themselves as having an understanding of the other discipline (math educators understanding CTE and CTE educators understanding math teaching)
- There was a 23% increase in the number of educators who understood how the College Readiness Standards were meaningful in the classroom and in Math/CTE partnerships

There will be 2 additional Math/CTE Workshops in 2008-2009, tentatively scheduled for February 25 and May 7.

# Math/CTE Partnership Project: A Broad Partnership

## Planning Committee:

Betty Klattenhoff OSPI  
Bill Moore, SBCTC  
Boo Drury, OSPI  
Dirk Klover, Tacoma SD  
Joyce Carroll, College Credits and  
Careers Network  
Tanya Rettinger, College Credits and  
Careers Network  
Terry Tatko, Franciscan Health  
Kathryn Absten, Olympic ESD 114  
Cathy Gangnes, South Kitsap SD

Jamie Wells, South King County  
Tech Prep Consortium  
Sandy Christie, Puget Sound ESD  
Kathy Dornhecker, ESD 113  
Jane Field, LMEA-ESD  
Linda Drake, Pierce County  
Careers Connection  
Jim Adams, Pierce County Careers  
Connection  
Jo Jacobson, Pierce County  
Careers Connection



Guest speaker John Aultman, Assistant Superintendent for Career and College Readiness, OSPI

## Speakers and Special Guests:

John Aultman, OSPI  
John House, State Transition Math Project  
Carlos Veliz, President/CEO PCSI Design (April)  
Bill Moore, State Board of Community and Technical  
Colleges  
Laurie Brown, Vice President and Chief Nursing  
Officer, Franciscan Health Systems (October)  
Mike Hickman, ESD 113, Washington State Math  
Course Crosswalk Consortium  
Greta Bornemann, OSPI  
Wayne Eirish, Applied Math Council

## Facilitators:

Heather Winfrey, former director,  
Construction Center of Excellence  
Terryl Bailey, The Allison Group

**Number of School Districts Represented: 27**

## Number of Participants: 131

47 Math teachers      10 CTE Directors/Coordinators  
69 CTE teachers      5 School/District  
administrators

## School Districts Represented:

Aberdeen	Issaquah	Puyallup	Seattle
Auburn	Mukilteo	Eatonville	Vashon
North Kitsap	Bellevue	Kent	Bethel
Clover Park	Peninsula	Lake Washington	Federal Way
Quiallayute	Yelm	Marysville	Tahoma
Tumwater	Northshore	North Thurston	Mossyrock
Shelton	S. Kitsap	Riverview	

## Outcomes of the Math/CTE Workshop: School and District Work Plans for Increasing Opportunities in Math

Each team created a work plan for themselves to be completed by Spring 2009, as a result of participation in this Math/CTE Partnership series.

### A sample of some of Team Goal Statements:

**Aberdeen High School:** Team teaching an Algebra II class and a programming class together by the 2009-2010 school year.

**Liberty High School:** Co-design an Algebra Enhancement class for students predicted to struggle in Algebra I, a math/CTE partnership with ½ time Algebra I and ½ time Woods class.

**Kentridge, Kent-Meridian, Kentwood, Kentlake Schools:** Develop a new course in Personal Finance to present to the board in 2009; expand current course math content in automotive, woodworking and electronics.

**Kington High School:** Create Action Algebra—a partnership to integrate CTE hands-on, contextual activities with an algebra course; teachers will team teach a block CTE/math course.

### Lakes High School:

- 1) Develop 3-5 different programs/courses of study which are cross-credited between math/CTE and are aligned with state and industry standards along with Algebra II coursework for the 3rd year of math.
- 2) Develop partnerships with Clover Park Technical College and Pierce Community College to deliver CTE math programs in accordance with a students' career pathway.
- 3) Consider Applied Math curriculum as an option for year 3.

**Auburn School District:** All CTE and Math instructors, counselors, administrators and staff are informed about the new State Math Standards and College Readiness Standards by Spring 2009.

**South Kitsap High School:** Identify math concepts already present in CTE classes; coordinate language used in CTE and math.

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