



## SCHOOL DISTRICT U-46

### INSTRUCTIONAL COUNCIL MEETING

**MARCH 18, 2010**

**8:30 A.M. – 2:00 P.M.**

**ESC, ROOM 240**

### AGENDA SUMMARY

Welcome

Lynn Glaser

Approval of January 21, 2009 Minutes

Lynn Glaser

#### I. Initial Presentations

##### A. PLTW Digital Electronics - Carol DePue

Digital Electronics - To meet the need for integrated, rigorous/relevant aligned to STEM (Science, Technology, Engineering Math) standards; **Digital Electronics, (DE)**, a Project Lead the Way (PLTW) course is being proposed to be offered at all five (5) comprehensive high schools during the 2012-2013 school year. (2011-2012 recruitment). This course is currently offered to Bartlett High School Science, Engineering and High Technology Academy students.

This course is a project based, hands-on experience to teach students the key elements and skills of engineering and technology based careers. Students use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. They explore technology systems and manufacturing processes to find out how math, science, and technology help people. Students are immersed in real world engineering problems.

##### B. PLTW Principles of Engineering - Carol DePue

Principles of Engineering – To meet the need for integrated, rigorous/relevant aligned to STEM (Science, Technology, Engineering Math) standards; **Principles of Engineering, (POE)**, a Project Lead the Way (PLTW) course is being proposed to be offered at all five (5) comprehensive high schools during the 2011-2012 school year. (2010-2011 recruitment). This course is currently offered to Bartlett High School Science, Engineering and High Technology Academy students.

This course is a project based, hands-on experience to teach students the key elements and skills of engineering and technology based careers. Students explore technology systems and manufacturing processes to find out how math, science, and technology help people. They are immersed in real world engineering problems.

##### C. PLTW Gateway to Technology Program – M.S. - Carol DePue

Gateway to Technology Program - - To meet the need for integrated, rigorous/relevant aligned to STEM (Science, Technology, Engineering Math) standards, it is being proposed to add Project Lead the Way (PLTW) to Canton and Tefft Middle Schools curriculum by implementing the **Gateway to Technology (GTT)** program, a 5-unit middle school program, over the next two years. Design & Modeling for 7<sup>th</sup> and 8<sup>th</sup> grade will be introduced during the 2010-2011 school year and Automation & Robotics for the 8<sup>th</sup> grade during the 2011-2012 year at which time Design & Modeling will become 7<sup>th</sup> grade only. These courses will become part of the middle school nine week rotations.

The Gateway to Technology curriculum for sixth, seventh, and eighth grades focuses on showing – not telling – students how engineers use technology to solve everyday problems.

In the Design and Modeling unit students use geometry, problem-solving, teamwork, and project management skills to design and develop product prototypes.

The Automation and Robotics unit involves students in working with gears, joints, and automated design concepts to learn the basic of mechanics and machinery.

All Project Lead the Way teachers are required to successfully complete a 2-week intensive training for each course they teach.

## II. Action Items

None

## III. Information Items

A. Secondary General Ed & ELL – Grades 7-12  
Language Arts Curriculum

Susan Ali & Gina Crespo

B. Response to Intervention (RtI) Update

Carla Cumblad

## IV. Dialogue Topic

None

## V. Other