

DVR Technology & Engineering Committee

Mid-Year Report 2014-15

Meetings

There have been two meetings this year. One welcome meeting for all Technology and Engineering teachers, and other with a focus on AutoCAD, Architecture, Engineering & Design.

Dual Credit

Dual credit was explored for PLTW Introduction to Engineering Design (IED) at Leyden High School and EbD at Ridgewood High School. There seems to be good alignment between ENT 255, Autodesk Inventor and IED. It was decided it would be best to wait until after the Dual credit summit in the spring to see what revisions are made to the program.

Mr. Holthouse and Matticks reviewed the Woods/Construction curriculum with Mr. Tweed. While no classes seem to line up enough for dual credit at this time. There is another meeting scheduled in the spring to see what curriculum changes can occur to better align the two programs.

Professional Development

All areas are encouraged to work towards area credentials. IED courses offer Autodesk user certification, Metals courses offer NIMS credentials, Autos Programs can work towards ASE certifications, and Construction programs can offer OSHA 10 hour safety cards. This requires the teacher to take 2 classes. This is being explored as a potential curriculum project for the summer of 2015. One issue does seem to be cost for students. Exams and credentials range from twenty to seventy dollars.

AMPED! Workshop June 22-25 on Algebra I in Material Products, Energy and Design. This new contextual math and CTE course is being piloted this year at Loveland High School, using the GiC model. It covers all of the Algebra I Common Core standards and will allow students to design and create products through real-world, project-based lessons, labs and activities. Teachers would need a math partner to fully participate. Leyden H.S. has secured a math partner for this training.

Finally, it was noted that it would be beneficial if the summer workplace experience had a manufacturing focus this year

Career Spotlight Series:

Information was gathered on the students who will attend the Manufacturing Career Spotlight on Tuesday 11/18. The Engineering Career spotlight will take place 1/28 at Riverside Brookfield High School.

Equipment Considerations

Equipment needs for next school year vary based on school. Overall we have seen an interest among students and teachers in 3D printing technology, Laser cutting/engraving technology, and CNC machines.

Future Meetings

Thursday, February 5th, Leyden H.S. 8:00 am

Automotive

Thursday, March 12th, Leyden H.S. 9:00 am

Construction / Manufacturing

2014-15 Goals are to:

- Evaluate local labor market data
- Recommend programs based on data
- Determine equipment needs
- Develop articulation with Triton College