

DVR Technology & Engineering Committee

End of Year Report 2014-15

Meetings

There have been four area meetings this year. One welcome meeting for all Technology and Engineering teachers, a focused Engineering and Design meeting, a focused Automotive Technology meeting, and a focused Construction and Manufacturing meeting.

Dual Credit

At Oak Park River Forest HS, all Tech Ed teachers completed their dual credit application. Working with Antigone Sharris several classes have been aligned for dual credit.

Leyden HS is still exploring dual credit opportunities. 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 and found that no classes seem to line up enough for dual credit at this time.

Mr. Collier is working with his chair at Ridgewood HS to explore dual credit opportunities.

Proviso has created articulation agreements with SIU, College of DuPage, and Moraine Valley. Since these partnerships have been in place donations of vehicles and equipment has increased.

Some potential issues brought up have been allowing the same course to offer or not offer dual credit based on instructor qualifications. There could be an increased workload and additional paperwork for high school teacher. As well as a concern that students would lose the benefit of a foundational course that could have a negative impact on their educational performance.

Professional Development

All areas are encouraged to work towards industry 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 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. Some districts are beginning to cover some of this cost.

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:

This year students from partner schools attended two relevant career spotlight offerings in Manufacturing and Engineering. Overall feedback from students was very positive.

Equipment Considerations

In engineering technology, 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.

In the Automotive technology, Oak Park River Forest is looking into TPMS equipment, Proviso is exploring Pico scopes.

In manufacturing technology, Leyden is focusing on equipment for the West campus metals lab. Ridgewood is looking at purchasing a CNC Shop Bot. Oak Park River Forest is looking into a Saw Stop tablesaw for Dado cuts.

Future Meetings

Tentative schedules will be emailed to both AC and Technology and Engineering members in August for comment and revision.

2015-16 Goals are to:

- Develop relationships with local companies
- Complete professional development around common equipment & credentials
- Develop articulation and with Triton College and partnerships Middle School programs
- Develop marketing strategies to promote programs