Initiatives for the Promotion of Engineering and Technology Education in Secondary Schools

- US Department of Labor WIRED Grant – Cyber Clubs
- Project Lead The Way (PLTW)
- Dual Enrollment
KSU Tuscarawas
Project Lead The Way
Operational Model
Figure 7 Dual Enrollment (DE) School Network
<table>
<thead>
<tr>
<th>School</th>
<th>Superintendent</th>
<th>Principal</th>
<th>Total high school enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuscarawas Valley</td>
<td>Mark Murphy</td>
<td>Susan Huth</td>
<td>420</td>
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<tr>
<td>Strasburg</td>
<td>Gene Feucht</td>
<td>Bob Hartline</td>
<td>210</td>
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<tr>
<td>Claymont</td>
<td>Ryan Delaney</td>
<td>Robert Clarke</td>
<td>631</td>
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<tr>
<td>Carrollton</td>
<td>Palmer Fogler</td>
<td>Dave Davis</td>
<td>813</td>
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<td>Coshocton County Career Center</td>
<td>Deborah Kapp-Salupo</td>
<td>Eddie Dovenbarger</td>
<td>230</td>
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<tr>
<td>New Philadelphia</td>
<td>Bob Alsept</td>
<td>Doug Baker</td>
<td>902</td>
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<tr>
<td>Indian Valley</td>
<td>Roger Bond</td>
<td>Troy Page</td>
<td>536</td>
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<tr>
<td>Newcomerstown</td>
<td>Jeffrey Staggs</td>
<td>Tim Sherman</td>
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<tr>
<td>Conotton Valley</td>
<td>Ryan Caldwell</td>
<td>Ryan Caldwell</td>
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<tr>
<td>Sandy Valley</td>
<td>David Janofa</td>
<td>Fred Kunar</td>
<td>457</td>
</tr>
</tbody>
</table>
Connecting to the Future

Who we are

A Workforce Innovation in Regional Economic Development (WIRED) partnership initiative between Kent State Tuscarawas and secondary schools.

What we do

Create a pipeline for training and education in technology, interactive digital technology workforce, and entrepreneurial sectors.
Cyber Club Steering Committee
KSU Tusc Cyber Center
New Orleans

SIGGRAPH Conference
Students participate in hands-on applications
Students engage themselves in the learning opportunities at Cosi Science Center
Kent IDI Social Networking Site
Summer Academy
3D Character Sculpting

Students create a 3D character Using Z-brush software
Digital Control Applications
Students learn the basics of the software Inventor
Programming Development
High School Students get the Training they need to learn the Game Engine “Unreal Tournament”
Area high school teachers learn Inventor at the Train – The – Trainer Workshop
Teachers from area PLTW High Schools learning Inventive Problem Solving using TRIZ
High School Competitions
A teacher overlooks, and helps a student understand how the program “flash” works
High School Students help one another out learning Digital Control Applications
Students have a day to learn how to build a functional website
Students work diligently at the 2011 Robotics Competition workshop.
High School Students learn How to create a level in the program “Unreal Tournament 3”
2011 Engineer for a Day

High School Students had the opportunity to be an Engineer for a day at Area companies
Introducing Young Women to Engineering

Young women from area high schools learn what it's like to be a woman in engineering.
Second Life workshop
Shawnee Conference
Entrepreneurship Seminar

Entrepreneurship Day Event

[Images of people at a seminar and workshop]
FALL 2011

EERT 12000 ELECTRIC CIRCUITS I
EERT 22003 TECHNICAL COMPUTING
EERT 22004 DIGITAL SYSTEMS
CADT 22005 MULTIMEDIA & GAME DESIGN

SPRING 2012

EERT 12000 ELECTRIC CIRCUITS I
EERT 12010 INTRODUCTION TO ELECTRONICS
IERT 12005 APPLICATIONS IN CAD
EERT 22018 PC NETWORK ENGINEERING
Remote Log-On

Log-On Computers at Kent Tuscarawas

High School