

This deliverable consists of a list of open source, online academic instruction/remediation resources replicated from the East Mississippi Community College TAACCCT 3 grant. This deliverable was developed through the Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grant Program Round 4 Grant *Winston County Manufacturing Recovery Project TC-26437-14-60-A-28*.

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**East Central Community College
Winston County Manufacturing Recovery Project**



Strategy 4: Strengthen online and technology-enabled learning.

Action 4.4 - Replicate the EMCC (TAACCCT3) plan to expand usage of self-paced, open source, online academic instruction/remediation resources. Build programs that meet industry needs.

Related Deliverable – List of open source, online academic instruction/remediation resources.

The following courses are free, web based sites that contain open source materials in science, mathematics and language arts, along with other subjects. Some require a user name and password to be established prior to viewing and are indicated by *.

www.khanacademy.com provides a free series of videos on various topics including sciences, mathematics and humanities.

- Electrical, Automation & Control, Electronics - Ohm's Law, Circuits, Reverse Engineering, Robots
- Drafting & Design - Trigonometry, Mapping Points

<http://www.learnatest.com/LEL/index.cfm> * offers practice tests, exercises, skill-building courses, eBooks, and information you need to achieve the results you want.

- Automotive, Electrical, Automation & Control, Electronics - Career and Technical College Skills (math, reading and writing skills practice)
- Drafting & Design, Welding - Geometry and Trigonometry

www.curriki.org offers free online curricula.

- Drafting & Design, Welding - Geometry and Trigonometry
- Electrical, Automation & Control, Electronics - Ohm's Law, Circuits, Reverse Engineering, Robotics

www.udacity.com includes videos, exercises, personalized support, and verified certificates

- Drafting & Design - 3-D graphics
- Electrical, Automation & Control - Intro to Physics (charge and electric fields)
- All programs - Intro to Algebra and Visual Algebra

<http://open.umich.edu/> encourages researchers, learners, and instructors to maximize the impact and reach of their school

- All students participate in academic courses in Math, Physics, Botany, and English, a life skills course focused on professional development and community building, and a computer lab. Additionally, there are hands-on applications lab for engineering and agriculture.

www.coursera.org is an education platform that partners with top universities and organizations worldwide to offer courses online for anyone to take, for free.

- Drafting & Design - 3-D graphics
- Electrical, Automation & Control - Intro to Physics (charge and electric fields)

www.merlot.org is a free and open peer reviewed collection of online teaching and learning materials and faculty-developed services contributed and used by an international education community.

- Electrical, Automation & Control & Electronics - Intro to Physics (Electricity and Magnetism), All about Circuits, Challenges for Electronics, Power Formulas and Current Flow, Electrical Principles and Applied Calculations
- Drafting & Design - Geometry, Trigonometry
- Automotive - Mathematics for mechanics

www.internet4classrooms.com is a website more geared to high school students but covers interpreting graphs, fractions, geometry, etc.

- Drafting & Design, Welding - Geometry

<http://ocw.mit.edu/index.htm> is MIT's open courseware that allows anyone to register for free college classes.

- Electrical, Automation and Control, Drafting and Design - Engineering related courses.