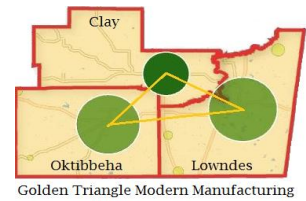


East Mississippi Community College Golden Triangle Modern Manufacturing Project



Open Source Sites for Academic Instruction and Remediation

- Action 4.3 Expand usage of self-paced, open-source, online, academic instruction/remediation resources.

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.

This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.