

STEM courses prepare students for high-skills, high-wage, and high-demand careers. STEM nurtures students to become creative problem-solvers, innovators, and inventors; analytical thinkers; and strong communicators.

Project Lead the Way (PLTW) Pre-Engineering, Biomedical Sciences, and Computer Science are designed to provide high school students hands-on curriculum and practical applications in science, technology, engineering, and math. Gateway to Technology (GTT) is the PLTW middle school program.

Middle School Courses

Gateway to Technology:
 Design and Modeling
 Automation and Robotics
 Energy and the Environment
 Flight and Space
 Green Architecture
 The Magic of Electrons
 Medical Detectives
 The Science of Technology

High School Courses

Pre-Engineering:
 Introduction to Engineering Design
 Principles of Engineering
 Aerospace Engineering
 Biotechnical Engineering
 Civil Engineering and Architecture
 Computer Integrated Manufacturing
 Digital Electronics
 Engineering Design and Development

Biomedical Sciences:
 Principles of Biomedical Sciences
 Human Body Systems
 Medical Interventions
 Biomedical Innovations

Computer Science:
 Introduction to Computer Science

Statistics:

Through our continued efforts PLTW programs are:

- Reaching students in **102** school districts in Arkansas
- **40** programs have been funded through STEM Works
 - **08** in 2011-2012
 - **14** in 2012-2013
 - **18** in 2013-2014
- **7,382** students participated in PLTW courses during 2013-2014 school year.