



AIM
Analytical Integrated Mathematics

Why AIM?

In Texas, approximately 50% of community college freshman and 22% of university freshman require remedial courses in spite of having passed the state-mandated TAKS test.



Why AIM?

In Texas, four years of high school math will be required for graduation in order to help ensure that students are prepared for post-secondary education.



Why AIM?

The 4th year of math should be focused on learning that helps the acquire skills needed for successful careers while they achieve college readiness standards.



AIM Development

- Waco ISD
- TSTC Waco
- Baylor University
- Gear-Up Waco
- Center for Astrophysics Space Physics and Engineering Research (CASPER)



AIM High Tech Industry Calculations

- Basic hydraulic concepts
- Design of structures
- Surveying applications
- Design processes
- Electrical measurements
- Principles of pneumatic pressure and flow
- Manufacturing processes
- Materials engineering
- Mechanical drives
- Plastics technology
- Process control systems
- Quality assurance
- Robotics and computer programming
- Thermal systems



Texas Education Agency Approved

Analytical Integrated Mathematics is a Career and Technical Education course where students solve and model robotic design problems. Students use mathematical methods to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.



AIM Key Components

- Industry tools and systems
- Critical thinking and teamwork skills
- On-line learning system
- Teacher training



AIM Begins....

- Fall 2008
- 10 Classrooms in Waco ISD
- 210 Students
- 3 Teachers
- Accuplacer Data
- Student / Teacher Surveys
- On-going Curriculum Development



Analytical Integrated Mathematics (AIM)

.....is an innovative program to encourage innovative students. Students will receive a unique, integrated math/science/career understanding that will allow them to be innovative in the career world. AIM is part of the solution to the need for remedial education in Texas colleges.



For more information...

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