$$a^2 + b^2 = c^2 \ \ddot\smile$$

AIM
ANALYTICAL INTEGRATED MATH
™

WHAT IS AIM?

AIM is a fourth-year math course taught using exploratory learning. Students learn and apply math concepts through the mechanical engineering, electrical engineering, and computer programming required to build a robot that meets design challenges. Students who complete AIM are better prepared for college entrance tests and college-level math.

WHAT IS THE CONTENT?

AIM meets the TEKS requirements for teaching Engineering Math (§130.367) in Texas.

- 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

TEACHER TRAINING

Veteran AIM instructors train educators on how to teach AIM at a one week Summer Training Institute hosted by DaVinci Minds. Teachers receive a professional development certificate upon completion of the training.

CONTACT INFORMATION

info@texasaim.com
www.texasaim.com

DaVinci Minds
210-399-1314

Teaching Systems, Inc.
800-762-4133

FUNDING AND TEACHER ELIGIBILITY

- Any secondary mathematics certificate
- Technology Education
- Industrial Technology or Industrial Arts certificate
- Master Mathematics Teacher (Grades 8-12)
- Mathematics (Grades 8-12)
- Mathematics/Physical Science/Engineering (Grades 8-12)
- Physics/Mathematics (Grades 8-12)

All teachers must also attend the TEA-required Engineering Mathematics training via ProjectShare.

As an approved CTE course, AIM is reimbursed at a 1.35x rate by the state.
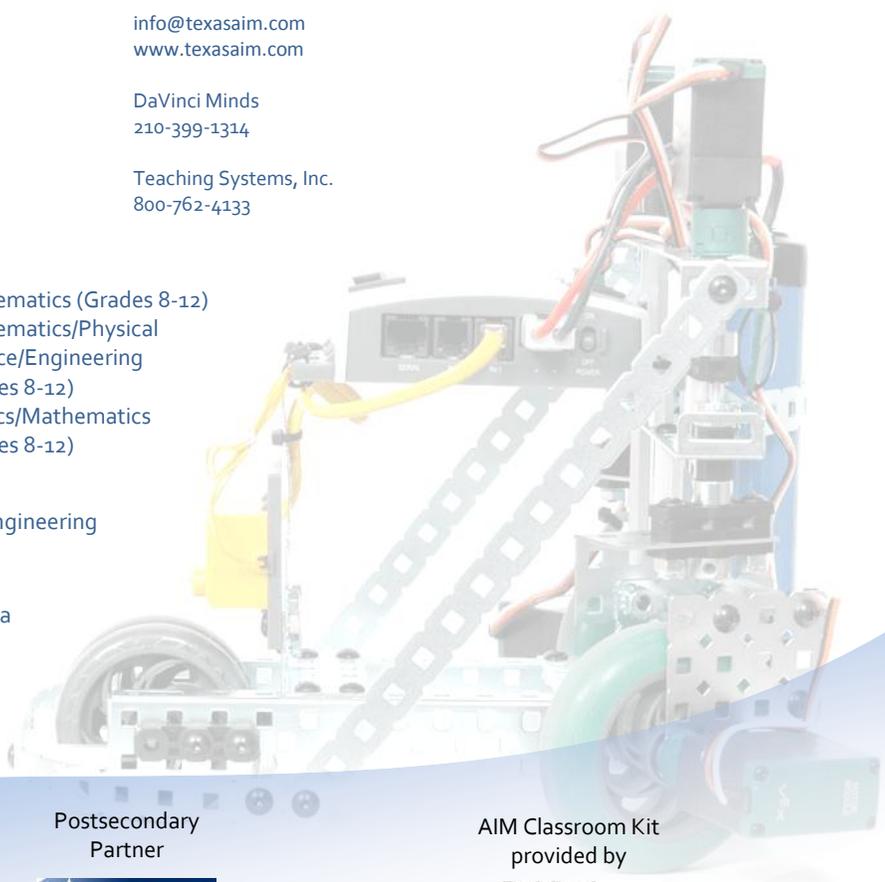
AIM is a program of
WACO ISD

Postsecondary
Partner

TSTC
Texas State
Technical College

AIM Classroom Kit
provided by
DaVinci Minds

Curriculum provided by
Teaching Systems, Inc.
TSI

Online Learning
System by
intelitek▶▶

Robots provided by
VEX
ROBOTICS DESIGN SYSTEM

Funding for AIM
Development provided by
GEAR UP Waco

www.texasaim.com

A Turnkey Solution for Engineering Math

The AIM program and curriculum has everything you need to guide your students, train your teachers, prepare your classrooms, and keep your program running smoothly through the school year.

AIM Curriculum	The online content including lessons, reviews, quizzes and tests that guide students toward the mastery of course concepts. Information is presented using multiple instructional strategies, enabling students with varying knowledge, abilities and interests to become active and involved learners.
The Online Learning System	Intelitek's LearnMate Learning Management System is at the center of the student's interactive learning experience. Students log on to access their lessons, take quizzes and tests, while teachers utilize embedded assessment features to get prompt feedback on students' mastery of the course content.
Educational Robots	We use educational robots to bring the mathematics learning experience to life by utilizing design challenges based on real world scenarios. Vex robots are kitted specifically for use in AIM high school classrooms.
Teacher Professional Development	Teachers attend an immersive one-week training seminar taught by veteran AIM instructors. Learn the ins and outs of the program from those who know it best!
Installation & Support	All equipment and software is quickly and professionally installed so that your teachers and classrooms are ready to start the first day of class. Ongoing support is provided for hardware, software and program needs.
Community of Practice	A sustaining Community of Practice fosters open communication among AIM teachers, schools, and school district personnel.

The introduction to TEKS 130.367 reads as follows:

"Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models 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."