STEM EDUCATION & REFORM

Consulting and Instructor Certification

SCHOOLS AND EDUCATION CONTENT PROVIDERS ARE QUICK TO FLY THE STEM EDUCATION FLAG, HOWEVER HAVE THE PRACTICE, STRATEGY AND CONTENT DELIVERY CHANGED? UNFORTUNATELY, THE MAJORITY OF STEM REFERENCES AND ASSOCIATIONS ARE IN FACT A MISREPRESENTATION. STEM IS A WORD, A PEDAGOGY, A PHILOSOPHY, NOT AN ACRONYM. TRUE STEM EDUCATION IS INTEGRATED AND INCLUDES SYSTEMATIC REFORM.

As a national non-profit we are dedicating consulting and professional development services to empower schools with the capacity to promote full STEM literacy for all students through comprehensive professional development and certification for local stakeholders embracing STEM instruction practices in the following areas:

- STEM pedagogy
- Innovative STEM content deployment based on local factors
- Course sequencing
- Career pathways
- STEM curriculum/standards mapping to multiple content disciplines
- Best practices for STEM curriculum delivery
- STEM Classroom management
- Observing STEM classrooms
- STEM Teacher improvement plans based on best practice measures
- Elementary STEM education experiences and instruction practices
- District Pre-K-12 coordination promoting project based enrichment activities, inquiry, and problem solving in multiple content areas.
- Facilities design and remodeling
- Public awareness and partnerships for local STEM efforts

Specific Stakeholders targeted:

- District level administrators
- School Board Members
- Curriculum Directors
- Career and Technical education Directors
- School Level Administrators
- Lead instructors
- Career Counselors

Content specific training is available for existing national STEM curriculum practices.

WHY STEM EDUCATION REFORM CONSULTING AND INSTRUCTOR CERTIFICATION?

Advance a full generation of learners to fill critical voids in national STEM career filed projections. To build a STEM literate citizenry with open ended problem solving capacity while improving student growth, close achievement gaps, decrease dropout rates, increase graduation rates, and improve teacher and principal effectiveness. STEM education involves more than education in the separate fields of science and math. STEM involves curriculum that integrates rigorous project-based content from science, technology, engineering, and mathematics, within the context of designing solutions to real-world problems. STEM Students should conduct scientific experiments, gather and analyze data, draw and communicate conclusions, develop and evaluate prototypes, and think critically. Integrative STEM education is a very effective way to engage students in higher order critical thinking and problem solving skills by placing rigorous mathematics and science in the context of technology and engineering, the "T and E" in STEM.

HOW TO GET STARTED?

Schedule a virtual meeting with a member of The STEM Academy Academic Leadership Team.

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THE STEM ACADEMY®

A National Non-Profit Status K-12 Education Program