



HATponics
Sustainable Agriculture

STEM CAMP VERTICAL FARM CHALLENGE

August 18 -20, 2017

What will I learn during this workshop?

Participants will be trained in how to plan, differentiate and implement HATponics STEM curriculum modules. Curriculum components include inquiry, mathematical modeling, engineering, project-based learning, engaging scenarios, student led peer to peer development, role of technology, synergistic integration of content, and relationship of STEM to standards and assessment.

Teachers will engage in discussions of embedding real world and real time topics associated with limited water supply, malnutrition, food deserts, urban farming, and sustainability into their classrooms. Utilize Socratic questioning to facilitate student learning, research, investigation, and problem solving.

- Understand the paradigm shift that STEM represents and how HATponics impacts student engagement and achievement.
- Learn how to use HATponics STEM programming to increase the participation and success in STEM courses and careers for all subgroups.
- Understand the research that HATponics supports and its STEM application, including effective teaching and learning, differentiated instruction, project-based learning, and comprehensive global partnered peer to peer programs.
- Understand and practice how to incorporate HATponics STEM applications into your teaching and learning strategies for your daily, unit, and long-term planning.
- Understand and prepare to incorporate the integration of science, math, engineering, and technology through inquiry and investigation into your classroom utilizing HATponics global stewardship models.
- Relate HATponics STEM initiatives to the standards and the assessment of the international science standards, common core, and VUCA based learning systems.

Special Guest Speakers:

Dr. David Balinsky UGA College of Veterinary Medicine – Post-Doc Resident in Veterinary Medicine discusses his externship with HATponics

STEM Global Jamaica – Cleveland High School collaboration with HATponics and Servants Heart Jamaica to construct residential systems with the students of Jamaica Christian School for the Deaf

Project Design Build – Discussion with Bill Rush, Executive Director of the James A Henry YMCA regarding Honduras

Connect Haiti – Students from Christian Heritage School will discuss their 2018 project to build a bridge in Haiti

COST: \$800

* Participants will be camping on the HATponics farm and will need to bring a sleeping bag and tent.

HATPONICS ENGINEERING & AQUAPONICS DESIGN CERTIFICATION FOR EDUCATORS