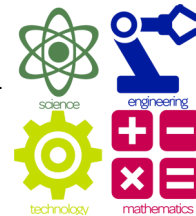


EXPLORATIONS IN PRE-ENGINEERING

EXPLORATIONS IN PRE-ENGINEERING—FOR STUDENTS EXITING GRADES 4-7

This Pre-Engineering course focuses on developing skills in problem based learning through hands-on activities. Each day, students will be presented with challenges for which they will need to design and engineer a solution. This collaborative design process will give students the opportunity to work as real-life engineers do; researching, designing, building, testing and presenting their own prototypes for a multitude of different real-world engineering problems.



- ◆ The Biomedical/Environmental session will focus on working to develop design solutions in areas such as prosthetics, adaptive/assistive technology, sustainable energy, and renewable resources.
- ◆ The Science of Circuits session will concentrate on creating an atmosphere where students can explore different design solutions for challenges in areas like electronics, robotics, automation, and digital communication.
- ◆ The Civil/Agricultural session encourages students to solve problems relating to industries such as architecture, urban planning, infrastructure, plant science, farming, and veterinary technology.

Students enrolling should come with an open mind and a desire to work creatively to solve problems and build prototypes for their design solutions. Classes will be predominantly group-project based, incorporate design critique and analysis with the hope students will expand skills in effective communication and public speaking. **Maximum enrollment 12 students per session**

Instructor: Staci Stamm



Staci Stamm is a Technology Education Teacher at Newtown High School. She holds a Bachelor of Science in Technology & Engineering Education from Central Connecticut State University and is currently pursuing a Master of Science in STEM Education, also at CCSU. Before joining the Newtown High faculty five years ago, she worked as a Scientific Literacy Educator with the New England Air Museum as well as NASA's Go For Aerospace student program at the Goddard Space Center in College Park, Maryland.

REGISTRATION FORM—EXPLORATIONS IN PRE-ENGINEERING

Student Name _____

Parent Name _____

Home Phone _____

Work Phone _____

Cell Phone _____

E-Mail Address _____

Street Address _____

City _____

State _____

Zip _____

Exiting Grade _____

Current School _____

Circle Program Choice (s):

Session One

Biomedical/Environmental

July 10-14, 2017

9:00-12:00 Noon

Cost: \$175

Location: Newtown High School

Session Two

Science of Circuits

July 17-21, 2017

9:00-12:00 Noon

Cost \$175

Location: Newtown High School

Session Three

Civil/Agricultural

July 24-28, 2017

9:00-12:00 Noon

Cost \$175

Location: Newtown High School

Note: Take two sessions for discounted price of \$297. Take three sessions for discounted price of \$446

Payment Type: (circle one) Check Master Card Visa Discover

Charge #: _____ Exp. Date: _____ 3-Digit Security Code: _____

Note: Mail your registration form and check to Newtown Continuing Education, 12 Berkshire Road, Sandy Hook, CT 06482 or fax it with your credit card information to Newtown Continuing Education, Fax No. (203) 426-1787