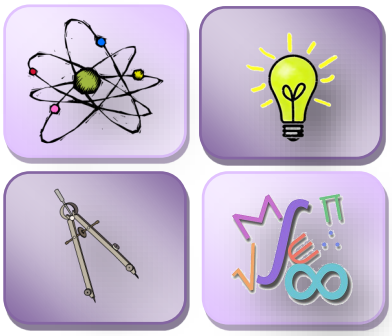
# Olive-Harvey College

## STEM Camp 2015

| | | |
|---|---|---|
| **Registration** | 8:30am – 9:00am | 3308 |
| **Welcome – Dr. Fullard** | 9:00am – 9:15am | 3308 |
| **Holly Thrash— Dual Credit** | | |
| **Guest Speaker – Martin Cook** | 9:15am – 9:45am | 3308 |
| **Breakout Session A** | 10:00am – 10:35 | |
| **Breakout Session B** | 10:45pm – 11:20 | |
| **Lunch** | 11:30am – 12:15pm | 3308 |
| **(TDL Presentation )** | | |
| **Breakout Session C** | 12:25pm – 1:00pm | |
| **Breakout Session D** | 1:10pm – 1:45pm | |
| **Closing ceremony** | 1:45pm – 2:15pm | 3308 |



**STEM**

| Group # | Session A | Session B | Session C | Session D |
|---|---|---|---|---|
| **Group 1** | Science—3129 | Technology—3307 | Engineering—3320 | Math—3115 |
| **Group 2** | Technology—3307 | Engineering—3320 | Math—3115 | Science—3129 |
| **Group 3** | Engineering—3320 | Math—3115 | Science—3129 | Technology—3307 |
| **Group 4** | Math—3115 | Science—3129 | Technology—3307 | Engineering—3320 |

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The Office of Instruction and the STEM Center for Teaching and Learning

Olive-Harvey College

May 14, 2015

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**Martin L. Cook Jr.**

Martin Cook is the founder and principal consultant at Kinesthetics Inc. After earning his Bachelor's degree in Electrical Engineering from the Illinois Institute of Technology, Martin gained his expertise and knowledge from both the energy and telecommunications private sectors. His combined 17 years plus experience as an engineer at both Peoples Energy and Lucent Technologies has provided him with a unique combination of technical and leadership skills. Martin uses a system engineer's approach to educate and guide students of all ages interested in STEM, Leadership and Professional Development.

### SCIENCE

**I scream, you scream, we all scream for ice cream!** Tons of tiny air bubbles, ice crystals trapped in viscous, sugar-laden water, and a mesh of fat droplets: these are integral to ice cream's inimitable texture. Discover the changing states of matter and chemical reactions while working for your dessert.

### ENGINEERING

**Mission to Mars!** During your mission you will explore new terrain, collect hazardous materials, and zig-zag your way through dangerous obstacles. Mission control will guide you through the fun world of VEX Robotics.

### TECHNOLOGY

**My Pi isn't perfect.** Get a taste of programming and controlling a circuit board using a Raspberry Pi and Python 3 programming language. Learn how to code the Reaction Time Game.

### MATH

**How Far Can you Hula Hoop?** Ever wonder how far you can actually hula hoop? Learn how a simple calculation can measure your hula-distance.

**The Golden Ratio** is a special number approximately equal to 1.618 which appears many times in geometry, art and architecture. Discover just how common this number is in nature using the human body and other

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