

# Olive-Harvey College STEM Camp 2016



<b>Registration</b>	8:30am	–	9:15am	3307
<b>Welcome – Dr. Fullard</b>	9:15am	–	9:25am	3308
<b>Guest Speaker—Prof. Mike Davis</b>	9:25am	–	9:40am	3308
<b>Breakout Session A</b>	9:45am	–	10:30am	
<b>Breakout Session B</b>	10:35pm	–	11:20am	
<b>Lunch</b>	11:20am	–	12:00pm	3308
<b>Breakout Session C</b>	12:05pm	–	12:50pm	
<b>Breakout Session D</b>	12:55pm	–	1:40pm	
<b>Closing ceremony</b>	1:40pm	–	2:00pm	3308

<b>Group #</b>	<b>Session A</b>	<b>Session B</b>	<b>Session C</b>	<b>Session D</b>
<b>Group 1</b>	Science—3401	Technology—3307	Engineering—3129	Math—3320
<b>Group 2</b>	Technology—3307	Engineering—3129	Math—3320	Science—3401
<b>Group 3</b>	Engineering—3129	Math—3320	Science—3401	Technology—3307
<b>Group 4</b>	Math—3320	Science—3401	Technology—3307	Engineering—3129

SCIENCE

TECHNOLOGY

ENGINEERING

MATHEMATICS

**Sponsored by:**  
**The Office of Instruction and the STEM Center for Teaching and Learning**  
**Olive-Harvey College**  
**May 19, 2016**

# Olive-Harvey College STEM Camp 2016



## Mike Davis Professor of Chemistry and Education – Truman College



Mike Davis started working with the City Colleges of Chicago in the Fall of 2001 as a professor of chemistry. Since then he achieved tenure, was elected department chair, and has moved into administration. He has a Master's degree in Chemistry from Northwestern University and is currently working towards a PhD in science education from the Illinois Institute of Technology. Mike has a passion for sharing science with the community at large. In 2006 he created the world's biggest periodic table of the elements in downtown Chicago. Since 1996 he has performed hundreds of science demonstration shows for tens of thousands of students around Chicago. Current projects include the establishment of a robust early college program at the City Colleges of Chicago, and promoting excellence in STEM education. Getting student prepared for Calculus is one the best indicators of success for persistence in STEM related academic and career pathways. Mike works on programs that encourage persistence and completion of college level STEM programs that result in degrees and or transfer.



### SCIENCE

**GENES IN A BOTTLE** Students will extract DNA from their own cheek cells and watch it precipitate from solution as floating white strands. The DNA strands will be collected and transferred to a glass vial, and the vial is fashioned into a necklace.



### TECHNOLOGY

**HAVE YOU PLAYED MOBILE GAMES?** You can create your own mobile games using Hopscotch which is based on Scratch programming language. Let's write code together to make your first mobile game, and enjoy the game!



### ENGINEERING

**THE POWER OF ELECTROLYTES IN YOUR SPORTS DRINKS** We all know drinking Gatorade helps us hydrate and replenish lost fluids while playing sports. But do you know how and why? And did you know that it's made from chemicals you can find in your own kitchen? In this activity we will investigate the contents of Gatorade and its amazing properties. Enjoy an introduction to chemical engineering.



### MATH

#### USING TECHNOLOGY TO LEARN ALGEBRA

Put on your thinking caps and discover how to work out real-world math problems using graphing calculators.

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