



# STEM SUMMER CAMPS

**STEM**  
University of Northern Iowa

**SUMMER 2016**  
[www.uni.edu/camps](http://www.uni.edu/camps)

**University of Northern Iowa**

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## MASTERING MULTIPLAYERS

July 18th - July 22nd, 2016, 9:00 am - 4:00 pm daily

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**Ages:** Entering 7th through 12th grade

**Logistics:** \$200 registration fee includes computer lab access, programming, daily snack, and boxed lunch daily.

**Prerequisite:** Must own a PC Minecraft license or have more than 50 hours in Terraria or any Steam multiplayer game.

Get your game on! Campers will explore the server side of online gaming with Minecraft and Steam-based games. Deploy and manage (and play!) a multiplayer game server on a cloud-based service. Tackle network setup, server configuration, security constraints, and game customization through plug-ins and extensions.

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## OPENING DOORS TO STEM

July 18th - July 22nd, 2016, 9:00 am - 12:00 pm daily

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**Ages:** Entering 6th through 8th grade

**Logistics:** \$100 registration fee includes camp materials and programming.

This camp will be organized around three themes— algebraic problem solving, the visualization of mathematics, and making connections between representations and ideas. Woven throughout the curriculum and teaching are the actions and messages that help campers develop a growth mindset. Everyone can do well in math; mistakes, struggle, and persistence are all important. Mathematics is an open, growth subject, not a closed, fixed subject. Campers will discover that communicating, reasoning about, and justifying ideas are central acts in the work of mathematics. Campers will engage in a wide range of mathematical concepts that can be seen from individual examination of the tasks. This camp is for middle school aged campers who may not excel at math now but want to.

