

# Effective STEM Integration

Connections to and from Mathematics in the Elementary Classroom

Dr. Andrew Hoffman

**STEM Teach IV Huntington University Summer 2020**

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**Facilitator:** Dr. Andrew Hoffman, Phone: (260) 359-4208, Email: ajhoffman@huntington.edu

**Date and Time:** June 9th and 10th, 9:00 AM to 12:00 PM both days (snacks provided!)

**Location:** Loew-Brenn Hall Room 159, Huntington University, 2303 College Avenue, Huntington, IN 46750.

**Required Materials:** It is advised you bring your own laptop.

## **Brief Description:**

Participants will reflect on effective ways to integrate STEM disciplines in the elementary school classroom, with a particular emphasis on making connections to and from mathematics. The workshop will consider both effective and ineffective examples in developing a vision for good practice. Participants are encouraged to bring a laptop.

## **Tentative Workshop Outline:**

The first day will focus on integrating mathematics and science. A driving question will be what makes the integration effective? Participants will engage in sample lessons that take different approaches to integration and then there will be time to debrief and reflect on these differences in approach.

The second day will focus on integrating mathematics and engineering. The question from the previous day will be considered again, but with the engineering process replacing the scientific method from the first day. By the completion of the workshop, participants will be able to articulate different ways to integrate STEM disciplines and discuss the advantages and disadvantages to the different approaches.

## **About the Instructor:**

Dr. Andrew Hoffman is a Mathematics Professor at Huntington University where he teaches a variety of mathematics courses including calculus, statistics, and courses for future elementary teachers. Before coming to Huntington, he was at Purdue University, where he earned his PhD in Mathematics Education. In addition to preparing future teachers at Purdue and Huntington, he worked with teachers in Frankfort, IN over four summers to invigorate their algebra teaching.