

MATH Academy Summer 2023



Instructors

Professor Chuck Dunn



Professor Mike Hitchman

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TAYH 210

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Meetings

Group	Time	Location	Days
Purple	9:00-10:15 AM	Graf 117	MTWThF
Red	10:30-11:45 AM	Graf 117	MTWThF

Workshop Description and Goals

In this mathematics and quantitative reasoning workshop we investigate functions - what they are, how we use them to model the workings of our world, and how they help us lead better lives. The primary goals for students in this workshop are the following:

- Strengthen intuition about the nature of functions, and how they help us solve problems.
- Increase facility with common, useful functions such as linear, power, exponential, and logarithmic functions.
- Strengthen algebra skills.
- Gain experience working in a college level classroom
- Gain experience doing homework for college level classes

Assignments

- **Daily Homework** will come from two sources: on-line homework using *WeBWork*, and worksheets provided in class.
- **Group presentations** will occur on the last day of the workshop. Details about this assignment will be provided in class.

Assessment

We will have two short in-class assessments on Monday (pre-assessment) and Friday (post-assessment)

Schedule

Day	Topic	WeBWork	Worksheet
Monday, 17-Jul	Pre-Assessment; Linear functions	Lines	Circles
Tuesday, 18-Jul	Power functions	Powers	Cup Stacking
Wednesday, 19-Jul	Logs & Exponentials	Exponentials	TBA
Thursday, 20-Jul	Project	L,P,E	
Friday, 21-Jul	Post-Assessment; Presentations		