

# ROMAN ENGINEERING

## COURSE SYLLABUS

The Lukeion Project  
Instructor: Regan L. Barr

It began as a small hill top village; it grew to command a far flung empire that stretched from Egypt and Syria all the way to Britain. As she grew in power, Rome improved the constructions, infrastructures and luxuries of urban life. Thanks to new construction materials and techniques, the Romans created buildings of a shape and scale that had never been seen before. Rome's citizens had more water, closer at hand, than any civilization prior to her. Our workshop will examine some of the Romans' most remarkable and enduring accomplishments and the discoveries and innovations that allowed them to achieve these feats.



### Class Format

Each class session will meet live, online for one hour. A recording of the session will be posted on the class web page for those who cannot attend in person. You can join the live class session 15 minutes before our scheduled start time at the following link: <https://lukeionproject.adobeconnect.com/romanengineering/>

### A Note About Recordings

Recordings are copyrighted by The Lukeion Project and the instructor and are only for the use by registered students. Please do not share recordings.

### Our Class Web Page:

- <http://www.quia.com/pages/rbarr/romeenglukeion>
- The Class Web Page will have review activities, games, and links to related web pages

### Contacting your Instructor:

- You may email your instructor, Regan Barr, at any time at [rbarr@lukeion.org](mailto:rbarr@lukeion.org).
- Most contact is via email. Email your instructor immediately if you have problems entering the online classroom. If we get into class and find that people are absent, the first thing we do is check email.

### Our Schedule:

- Session 1: Bones of Concrete, Skin of Marble
  - How the Romans' discovery of concrete, combined with the remarkable qualities of the arch, ushered in a new era of construction
- Session 2: Roman Roads and Bridges
  - How the Romans connected their empire and conquered the landscape
- Session 3: Waterworks
  - How the Romans drained away the bad water, moved enormous quantities of clean water, and built a civilization around the health spa
- Session 4: The Best of the Best
  - The Harbor at Caesarea Maritima
  - The Flavian Amphitheater (Colosseum)
  - The Palace of Domitian
  - The Pantheon