

Online Mini-Courses on Art and Science Topics 2019

Art and the Science of Looking

Inquiry: Observation and Perception

The goal of this course is to help you, and eventually your students, harness the power of observation in absorbing science concepts through inquiry-driven, art-based practices. In the course you will:

- Practice strategies for looking closely, using works of art from the collection.
- Learn about biological Illustration and its use in the classroom.
- Create your own drawings and share ideas with others.

Art and Systems

Earth Science: Part to Whole

The goal of this course is to help you, and eventually your students, use art and art-based processes to practice systems thinking and deepen understanding of systems in the natural world. In the course you will:

- Explore systems and systems thinking through concept mapping and consider how concept mapping applies to your own classroom.
- Learn about using visual journals to document learning.
- Create your own journals and consider complex weather systems.

Art and Physics

Physical Science: Force and Motion

The overall goal of this course is to help you, and eventually your students, explore and explain physics concepts through the visual arts and art processes. In the course you will:

- Explore physics concepts associated with forces and motion as you explore the work of Volla Simpson.
- Learn about creating your own mini maker space.
- Create your own kinetic sculpture using found materials.

Art and Ecology

Life Science: Ecosystems

The overall goal of this course is to help you, and eventually your students, build ecological awareness through inquiry with works of art and environment. In the course you will:

- Examine how works of art can build environmental awareness.
- Learn how to integrate Google Tour Builder and arts-based practice into your curriculum by investigating an environment near you.
- Create your own Google tour and learn some watercolor techniques.

Art and Nature

Natural Sciences: Place-Based Education

The overall goal of this course is to help you, and eventually your students, apply concepts of place-based education as you explore your local community. In this course you will:

- Explore how artists and scientists come to understand a place.
- Learn about place-based education and its applications in the classroom.
- Inspired by the work of Elliot Daingerfield and other artists, create your own art in response to place.