

# History and Philosophy of Science, Certificate

LAHPSCERT

Do you have a curious mind and a passion for the way philosophical views and scientific discovery are interconnected throughout our history? You can make a powerful impact in the future of human health by exploring how this complex interaction influences human society and cultural production.

## Description

In the history and philosophy of science undergraduate certificate program, students will explore central questions about the nature of science and how it develops and changes.

Students will examine how scientific claims are justified and investigate the social and moral implications of the changing scientific landscape as well as major landmarks in the development of science. They will develop the skills to recognize and articulate scientific reasoning and gain a deeper awareness that the science of any time is importantly shaped by previous events.

## At a glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe](#)

## Program requirements

[2024 - 2025 Certificate Map](#)

[Certificate Map \(Archives\)](#)

The certificate requires 18 credit hours from the HPS and PHI subjects. At least 12 credit hours must be completed at the upper-division level and all courses counting toward the certificate must be completed with a grade of "C" (2.00 on a 4.00 scale) or higher.

**Required Course -- 3 credit hours**

PHI 314 / HPS 314: Philosophy of Science (HUAD OR HU) (3)

### **Electives (choose five) -- 15 credit hours**

At least nine credit hours must be taken in upper-division HPS courses. Any upper-division HPS course may be used toward the certificate.

HPS Upper Division Elective (9)

PHI 103: Principles of Sound Reasoning (QTRS OR L or HU) (3)

PHI 310: Environmental Ethics (SUST OR HU) (3)

PHI 319: Philosophy, Computing and Artificial Intelligence (QTRS OR CS) (3)

PHI 320: Bioethics (HUAD OR HU) (3)

PHI 325: Philosophy of Social Science (HU or SB) (3)

PHI 328: History of Ancient Philosophy (GCSI OR HU & H) (3)

PHI 329: History of Modern Philosophy (GCSI OR HU & H) (3)

PHI 330: Theory of Knowledge (HUAD OR HU) (3)

PHI 331: Philosophy of Language (HU) (3)

PHI 332: Metaphysics (HUAD OR HU) (3)

PHI 333: Symbolic Logic (3)

PHI 334: Philosophy of Mind (HUAD OR HU) (3)

PHI 401: Rationalism (3)

PHI 402: Empiricism (3)

PHI 403: Contemporary Analytic Philosophy (HU) (3)

PHI 413: Advanced Symbolic Logic (3)

PHI 420: Topics in Philosophy (3)

Other elective options may be applied with the approval of an academic advisor in the School of Life Sciences.

Prerequisite courses may be needed in order to complete the requirements of this certificate.

## **Enrollment requirements**

Requests to declare this certificate are reviewed by the academic advisor in the academic unit offering the certificate. Students may be contacted to discuss the certificate prior to the addition of the certificate to the student record.

A student pursuing an undergraduate certificate must be enrolled as a degree-seeking student at ASU. Undergraduate certificates are not awarded prior to the award of an undergraduate degree. A student already holding an undergraduate degree may pursue an undergraduate certificate as a nondegree-seeking graduate student.

## **Program learning outcomes**

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Able to present historical and philosophical perspectives on science.
- Able to critically communicate research at the intersections of history and philosophy in science.

## **Career opportunities**

The history and philosophy of science undergraduate certificate program provides students with critical thinking skills and problem-solving abilities in high demand to address a growing need for innovation in public health and scientific advancement. When combined with a major program of study, graduates will be well prepared for roles in a variety of fields, including biology, medicine, law and ethics.

Advanced degrees or certifications may be required for academic, governmental or clinical positions.

## **Contact information**

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