We must frame questions about health and illness in new and innovative ways to improve human health. Begin here. Learn how to holistically approach ideas about evolution, human vulnerability and the future of medicine.

Description

With rising need for health science-related skills and an aging population in the United States, innovations in health and medicine are in demand. Evolutionary medicine is a new and burgeoning field situated between the life and social sciences that seeks to integrate the fields of evolutionary biology, genetics, medicine, global health and public health to transform our understanding of disease and improve human health.

In this certificate program, students learn how to integrate perspectives from across fields to answer questions about health and disease in the context of human life history. They are introduced to integrated approaches within the biological and social sciences that are capable of address an emerging, anticipated public need such as reemerging infectious disease, challenges with vaccines, the expansion of chronic disease and other growing public health crises.

At a Glance

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

Program Requirements

[Certificate Map (Archives)](#)
[2022 - 2023 Certificate Map](#)
The certificate in evolutionary medicine consists of 15 credit hours, at least 12 of which must be upper division. All 15 credit hours must be completed at ASU. A grade of "C" (2.00 on a 4.00 scale) or higher is required for all courses used toward the certificate.

**Required Courses -- 6 credit hours**

- ASM 403 / BIO 403: Evolutionary Medicine and Global Health (3)
- BIO 408 / ASB 408: Advanced Evolutionary Medicine (3)

**Electives -- 9 credit hours**

A minimum of six credit hours of electives must be upper division.

- ASB 250 / BIO 250: Introduction to Evolution and Medicine (SB & G) (3)
- ASB 448 / BIO 448: Maternal and Child Health (3)
- ASB 462: Medical Anthropology: Culture and Health (SB & C) (3)
- ASM 246: Human Origins (SB) (3)
- ASM 342 / BIO 327: Evolution of Human Behavior (3)
- ASM 345: Disease and Human Evolution (3)
- ASM 394 / BIO 394: Ecology and Evolution of Infectious Diseases (3)
- ASM 401: Health and Human Biology (3)
- ASM 446 / BIO 446: Principles of Human Genetics (L) (3)
- ASM 456: Infectious Disease and Human Evolution (3)
- ASM 494 / BIO 494: Evolution and Mental Disorders (3)
- BIO 302: Cancer--Mother of All Diseases (L) (3)
- BIO 318 / HPS 331: History of Medicine (HU & H) (3)
- BIO 345: Evolution (3)
- BIO 394 / PSY 394: Introduction to Evolutionary Psychology (3)
- BIO 440 / MBB 440: Functional Genomics (3)
- BIO 462: Endocrine Physiology (3)
- MBB 445 / MIC 445: Techniques in Molecular Biology/Genetics (3)
- MIC 205: Microbiology (SG) or MIC 220: Biology of Microorganisms (3)
- MIC 425: Advanced Immunology (3)

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

**Enrollment Requirements**

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.
Attend Online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.

Career Opportunities

Graduates who have combined the certificate in evolutionary medicine with their major program of study may become more marketable to employers. They often decide to pursue employment in evolutionary biology, genetics, medicine, global health or public health.

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

Contact Information

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