

Master of Science in clinical exercise physiology

Health care is moving toward a model of chronic disease prevention and overall wellness as health care practitioners and administrators emphasize exercise and preventive care. The two-year Master of Science in clinical exercise physiology program provides you with the expertise to improve health outcomes for individuals and populations with cutting-edge knowledge in exercise science.

Get specialized training in cardiovascular, pulmonary, metabolic, orthopedic, musculoskeletal, neuromuscular, neoplastic, immunologic and hematologic disorders. Gain the knowledge, clinical experience and skills needed for successful completion of the American College of Sports Medicine examination to earn clinical exercise physiologist certification.

With a comprehensive curriculum and applied practice, you will prepare for a career in a growing field using exercise and rehabilitation to prevent and manage chronic disease.



chs.asu.edu

College of Health Solutions
602-496-3300
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Promote health
and well-being.

41%

**of exercise physiologists
have an advanced degree.**

Occupational Information Network

11%

**Much faster than average job
growth for exercise physiologists
expected through 2029**

U.S. Bureau of Labor Statistics

ASU is among the

best

**graduate schools
in the U.S.**

U.S. News & World Report, 2022

#1



in the U.S. for innovation

ASU ahead of MIT and Stanford

– U.S. News & World Report

7 years, 2016–2022

MS in clinical exercise physiology curriculum

In the program, you'll learn theory and science while you develop practical skills and build the necessary competencies to become a certified clinical exercise physiologist. Complete the program by passing a comprehensive written exam or pursue deeper research with a thesis project under faculty guidance.

Featured courses

EXW 535 Advanced Exercise Assessment and Prescription

Master theory and practice of laboratory methods in applied exercise physiology. Learn procedures for assessment and prescription for chronic diseases.

EXW 542 Health Promotion

Understand the theory and research for fitness and wellness programs in nutrition, physical activity, smoking cessation and stress management.

EXW 560 Cardiopulmonary Rehabilitation

Understand exercise testing and prescription for cardiac and pulmonary patients, as well as pharmacology, electrocardiography and pathophysiology of chronic diseases.

EXW 565 Cardiovascular and Pulmonary Physiology

Delve into the physiology of exercise with special regard to cardiovascular and pulmonary responses in healthy and chronically diseased individuals.

KIN 547 ECG Interpretation

Learn about the heart rhythm disturbances that occur within the chambers and conducting tissue of the heart. Hands-on knowledge will be gained by analyzing electrocardiogram rhythm strips and through laboratory experiences involving electrode placement and 12-lead ECG interpretations.

Internship

Engage in 600 hours of hands-on work in multiple performance domains:

- Clinical assessment
- Education and behavior change
- Exercise prescription
- Exercise testing
- Exercise training
- Legal and professional considerations
- Program administration

Become an ACSM certified clinical exercise physiologist

The American College of Sports Medicine is the national association responsible for establishing guidelines and recommendations for exercise testing, prescription and evaluation of research for both healthy populations and those with chronic disease. The ACSM certification is the organization's most prestigious credential for clinical professionals with a master's degree working with clients who are under the care of a physician for cardiovascular, pulmonary and metabolic diseases as well as orthopedic or musculoskeletal, neuromuscular and neoplastic immunological or hematological diseases. The program curriculum will prepare you with the knowledge necessary to take the ACSM exam for certification.

4+1

Accelerated master's program

Follow a streamlined path from the undergraduate kinesiology program to your Master of Science in clinical exercise physiology. Reduce the time to get your master's degree from two years to one. During your senior year, complete credit hours toward your master's degree. Once you complete your bachelor's degree in kinesiology, you have just one year left of courses to earn a Master of Science in clinical exercise physiology.

The **College of Health Solutions** at Arizona State University translates scientific health research and discovery into practice. Its programs **prepare students to address the challenges facing our populations to stay healthy, improve their health, and manage chronic disease** — all toward improving health outcomes.