

# Exercise Science (BS)

This program is offered by the College of Science and Health/ Biological Sciences Department and is only available at the St. Louis home campus.

## Program Description

The bachelor of science (BS) in exercise science provides an excellent academic foundation for students choosing to pursue graduate and professional degrees in a wide array of health careers, such as exercise physiology, occupational therapy, physical therapy, medicine and athletic training. Because these fields require post-baccalaureate degrees, students will need to take additional prerequisites that apply to their field of interest. Students who choose not to pursue a post-baccalaureate degree can pursue a career as a personal trainer, wellness coordinator, strength and conditioning coach or in corporate wellness.

## Learning Outcomes

Upon completion of the exercise science program, students will be able to:

- Demonstrate basic knowledge of biology, chemistry and physics.
- Demonstrate basic knowledge of human movement.
- Demonstrate knowledge of effective analysis of kinesiology concepts.
- Demonstrate skill in applied kinesiology, in the effective use of problem-solving techniques and in intelligent decision-making skills in clinical settings.
- Demonstrate tolerance and understanding of diverse populations, responsible citizenship, a professional attitude and ethical behavior.

## Degree Requirements

For information on the general requirements for a degree, see Baccalaureate Degree Requirements under the Academic Policies and Information section of this catalog.

- 71 required credit hours
- Applicable University Global Citizenship Program hours
- Electives

Students must complete all courses in the major with a grade of C- or better.

## Curriculum

The 71 credit hours required for the exercise science major include the following:

- BIOL 1550 Essentials of Biology I (4 hours)  
and BIOL 1551 Essentials of Biology I: Lab (1 hour)
- BIOL 2350 Nutrition (3 hours)
- BIOL 3010 Human Anatomy & Physiology I (3 hours)  
and BIOL 3011 Human Anatomy & Physiology I: Lab (1 hour)
- BIOL 3020 Human Anatomy & Physiology II (3 hours)  
and BIOL 3021 Human Anatomy & Physiology II: Lab (1 hour)
- BIOL 4400 Research Methods (3 hours)
- BIOL 4430 Senior Thesis for BS in Biological Science (4 hours)
- EXSC 1318 Careers in Exercise Science (1 hour)
- EXSC 1400 Foundations of Exercise Science (3 hours)
- EXSC 2100 Coaching Health and Human Performance (2 hours)
- EXSC 2356 Principles of Athletic Training (3 hours)
- EXSC 3050 Exercise Physiology (3 hours)

- EXSC 3250 Kinesiology (3 hours)  
and EXSC 3251 Exercise Kinesiology: Lab (1 hour)
- EXSC 4680 Exercise Prescription and Testing (3 hours)  
and EXSC 4681 Exercise Testing and Prescription: Lab (1 hour)
- EXSC 4683 Exercise Prescription for Special Populations (3 hours)
- EXSC 4875 Exercise Science Internship (3 hours)
- CHEM 1100 General Chemistry I (3 hours)  
and CHEM 1101 General Chemistry I: Lab (1 hour)
- CHEM 1110 General Chemistry II (3 hours)  
and CHEM 1111 General Chemistry II: Lab (1 hour)
- PHYS 1710 College Physics I (3 hours)  
and PHYS 1711 College Physics I: Lab (1 hour)
- PHYS 1720 College Physics II (3 hours)  
and PHYS 1721 College Physics II: Lab (1 hour)
- PSYC 2300 Lifespan Development (3 hours)
- STAT 3100 Inferential Statistics (3 hours)  
or MATH 2200 Statistics (3 hours)  
or PSYC 2750 Introduction to Measurement and Statistics (3 hours)

## Dual Major Option: Psychological Science/ Exercise Science

Students who wish to pursue a dual major in exercise science and psychological science may do so. The two majors cannot be awarded separately or sequentially under this arrangement.

## Degree Requirements

For information on the general requirements for a degree, see Baccalaureate Degree Requirements under the Academic Policies and Information section of this catalog. For information on the general requirements for dual degrees, see Dual Majors and Dual Degrees under the Academic Policies and Information section of this catalog.

- 119 required credit hours
- Applicable University Global Citizenship Program hours, with accommodations\*

\*All students pursuing a dual degree will complete the Global Citizenship Program requirements of one of the programs. Students should review the GCP accommodations for each degree before making their selection of which GCP program to pursue.

## Curriculum

- WRIT 1010 The Craft of College Writing (3 hours)
- MATH 1430 College Algebra (3 hours)
- BIOL 1040 Human Genetics (3 hours)
- PSYC 1100 Introduction to Psychology (3 hours)
- PSYC 1800 Careers in Psychology (1 hour)
- PSYC 2750 Introduction to Measurement and Statistics (3 hours)
- PSYC 2825 Introduction to Research Methods (3 hours)
- PSYC 2975 Sophomore Assessment (0 hours)
- PSYC 3025 Psychology and Ethics (2 hours)
- PSYC 4750 Advanced Statistics (3 hours)
- PSYC 4825 Senior Thesis (3 hours)
- PSYC 4925 Senior Capstone: History, Philosophy and Systems of Psychology (3 hours)
- PSYC 4950 Senior Assessment (0 hours)
- Psychology electives (at least 3 hours at the 4000-level) (6 hours)
- Psychology content areas (15 hours)

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