

Exercise Science, Pre-Occupational Therapy Emphasis, BS

Program Description

The Exercise Science bachelor's degree focuses on the science of human movement and its importance in maintaining or improving health, physical fitness and athletic performance. Coursework and selected emphases allow students to focus their studies on specific interests relative to career and graduate school pursuits.

Emphases within this degree program include:

- Exercise Science (generalist)
- Pre-Athletic Training
- Pre-Occupational Therapy
- Pre-Physical Therapy

Program Curriculum

120 credits

Utah Tech General Education Requirements

All Utah Tech General Education requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to Utah Tech's minimum General Education standards in American Institutions, English, and Mathematics.

General Education Core Requirements (<https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext>)

Code	Title	Hours
English		3-7
Mathematics		3-5
American Institutions		3-6
Life Sciences		3-10
Physical Sciences		3-5
Fine Arts		3
Literature/Humanities		3
Social & Behavioral Sciences		3

Exercise Science Core Program Requirements

Code	Title	Hours
FAST 1300 & XSCI 1543 or FAST 1301 & XSCI 1543 or FAST 1315 & XSCI 1543 or XSCI 1340	Beginning Swimming and First Aid / Resp Emergencies Intermediate Swimming and First Aid / Resp Emergencies Aquatic Fitness and First Aid / Resp Emergencies Lifeguarding/First Aid	3-4
BIOL 2320 & BIOL 2325	Human Anatomy and Human Anatomy Lab ¹	5
BIOL 2420 & BIOL 2425	Human Physiology and Human Physiology Lab ¹	4
RSM 2070	Fundamentals of Sport and Leisure Management	3

XSCI 2020 or XSCI 1025	Introduction to Exercise Science Intro to Sports Medicine	3
XSCI 2060	Sport and Exercise Psychology	3
XSCI 2120	Principles of Fitness and Lifestyle Management	3
XSCI 2200	Nutrition for Sport and Exercise	3
XSCI 3700 & XSCI 3705	Physiology of Exercise and Physiology of Exercise Lab ¹	4
XSCI 3370	Exercise Testing and Prescription	3
XSCI 3400	Activity Programming for Special Populations	3
XSCI 3500	Theories and Techniques for Teaching Fitness and Motor Skills	3
XSCI 3730 or XSCI 3740 or XSCI 3750	Biomechanics ¹ Clinical Biomechanics Quantitative Biomechanics	3
XSCI 4100	Physiology and Techniques of Strength and Power	3
XSCI 4200	Healthy Aging	3
XSCI 4300	Clinical Exercise Physiology	3
XSCI 4230	Applied Fitness Development for Aging and At-Risk Populations	3
XSCI 4400	Pediatric and Adolescent Fitness & Nutrition	3
XSCI 4600R	Exercise Science Internship	1-3
XSCI 3054	Motor Learning and Control	3
XSCI 3352	Motor Development	3
XSCI 3840	Measurement, Research, and Statistics in Exercise Science	3

Pre-Occupational Therapy Track Requirements

Code	Title	Hours
HLOC 1000	Medical Terminology	2
MATH 1040	Introduction to Statistics (MA) ¹	3
PSY 1010	General Psychology (SS, GC)	3
PSY 1100 or FSHD 1500	Human Development Through Lifespan (SS, GC) Human Development Lifespan (SS, GC)	3
SOC 1010	Introduction to Sociology (SS, GC)	3
PSY 2400	Psychology of Abnormal Behavior	3
XSCI 2025	Introduction to Occupational Therapy	3

Recommended Electives

Code	Title	Hours
To bring the total number of credits to no less than 120.		
BIOL 1610 & BIOL 1615	Principles of Biology I (LS) and Principles of Biology I Lab (LAB)	5
XSCI 4500	Theories of Behavioral Change	3
XSCI 3750	Quantitative Biomechanics	3
XSCI 4700	Motivation and Coaching	3
XSCI 4890R	Undergraduate Research for Exercise Science	1-3
HLOC 3000R	Utah Health Scholars Returning Students	1

1. COURSE FEE REQUIRED. See course fee tab for details.

Graduation Requirements

1. Complete a minimum of 120 college-level credits (1000 and above).
2. Complete at least 40 upper-division credits (3000 and above).
3. Complete at least 30 upper-division credits at Utah Tech for institutional residency.

4. Cumulative GPA 2.5 or higher.
5. GPA of 2.0 or higher in Exercise Science Program Requirement courses.
6. Grade C- or higher in each Exercise Science Program Requirement course.

- 1.

Graduation Plan

1st Year

Fall Semester	Hours Spring Semester	Hours
SSC 1010	2 ENGL 2010	3
ENGL 1010	3 PSY 1010	3
XSCI 2020 or 1025	3 RSM 2070	3
General Education (Fine Arts) (https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext)	3 MATH 1040	3
General Education (Math) (https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext)	3 General Elective	3
General Elective	1	
	15	15

2nd Year

Fall Semester	Hours Spring Semester	Hours
PHYS 1010	3 BIOL 2420 & BIOL 2425	4
HLOC 1000	2 General Education (Literature/ Humanities) (https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext)	3
BIOL 2320 & BIOL 2325	5 General Education (American Institutions) (https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext)	3
FAST 1300	1 XSCI 2060	3
XSCI 1543	3 General Elective Course	3
	14	16

3rd Year

Fall Semester	Hours Spring Semester	Hours
PSY 1100	3 SOC 1010	3
XSCI 2120	3 XSCI 3054	3
XSCI 2200	3 XSCI 3700 & XSCI 3705	4
XSCI 3352	3 XSCI 3840	3
XSCI 3500	3	
	15	13

4th Year

Fall Semester	Hours Spring Semester	Hours
PSY 2400	3 XSCI 3370	3
XSCI 3400	3 XSCI 4100	3
XSCI 4200	3 XSCI 4230	3
XSCI 4300	3 XSCI 4400	3
	XSCI 4600R	1-3

	Elective Course	1-2
	12	14-17

Total Hours 114-117

BS Exercise Science Program Learning Outcomes

At the successful conclusion of this program, students will be able to:

1. Illustrate physiological, psychomotor, developmental, and biomechanical responses during exercise in multiple environments and populations.
2. Assess, develop, and adjust an appropriate exercise program for different populations.
3. Develop appropriate exercise techniques and mechanics to optimize movement along with additional strategies to improve exercise compliance, retention, and motivation.
4. Evaluate research while applying evidence-based decision-making skills.
5. Recommend and create an effective environment in which sport, exercise, and physical activity can be integrated.