

Exercise Science, 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 (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 Program Requirements

Code	Title	Hours
Complete one (1) of the following:		3-4
FAST 1300 & XSCI 1543	Beginning Swimming and First Aid / Resp Emergencies	
OR		
FAST 1301 & XSCI 1543	Intermediate Swimming and First Aid / Resp Emergencies	
OR		
FAST 1315 & XSCI 1543	Aquatic Fitness and First Aid / Resp Emergencies	
OR		
XSCI 1340	Lifeguarding/First Aid	
Complete the following:		
BIOL 2320 & BIOL 2325	Human Anatomy and Human Anatomy Lab	5

BIOL 2420 & BIOL 2425	Human Physiology and Human Physiology Lab	4
RSM 2070	Fundamentals of Sport and Leisure Management	3
XSCI 2020	Introduction to Exercise Science	3
or XSCI 1025	Intro to Sports Medicine	
or XSCI 2025	Introduction to Occupational Therapy	
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	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	Biomechanics	3
or XSCI 3740	Clinical Biomechanics	
or XSCI 3750	Quantitative Biomechanics	
XSCI 3800 or XSCI 3840	Measurement & Evaluation in Physical Exercise & Sports Measurement, Research, and Statistics in Exercise Science	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

Exercise Science Elective Requirements

Code	Title	Hours
Elective coursework to bring the total to no fewer than 120 college-level credits (1000 and above).		

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
First Year Recommended Elective	2 BIOL 2320 & BIOL 2325	5
ENGL 1010	3 General Education (Social & Behavioral Sciences) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	3

General Education (Mathematics) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	5 ENGL 2010	3
General Education (Fine Arts) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	XSCI 2020, 1025, or 2025	3
General Education (Life Sciences and Lab Science - recommended: BIOL 1010/15 or higher) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	5	
	15	14
2nd Year		
Fall Semester	Hours Spring Semester	Hours
BIOL 2420 & BIOL 2425	4 FAST 1300	1
XSCI 1543	3 General Education (American Institutions) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	3
XSCI 2060	3 XSCI 2120	3
RSM 2070	3 XSCI 3054	3
XSCI 2200	3 XSCI 3840	3
	General Elective	1
	16	14
3rd Year		
Fall Semester	Hours Spring Semester	Hours
XSCI 3352	3 XSCI 3370	3
XSCI 3700 & XSCI 3705	4 XSCI 3730	3
XSCI 3500	3 XSCI 4400	3
General Education (Literature/ Humanities) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	3 General Elective	3
General Education (Physical Science) (catalog.utahtech.edu/ programs/generaleducation/ #gerequirementstext)	3 General Elective	3
	16	15
4th Year		
Fall Semester	Hours Spring Semester	Hours
XSCI 3400	3 XSCI 4100	3
XSCI 4200	3 XSCI 4230	3
XSCI 4300	3 XSCI 4600R	3
General Elective	3 General Elective	3
General Elective	3 General Elective	3
	15	15

Total Hours 120

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.