EXERCISE SCIENCE, B.S.

Exercise Science is a multidisciplinary field of study involving the active human body in the areas of anatomy, physiology, metabolism, and kinetics. Exercise Science is a growing field and an allied health profession. Exercise Science professionals work to understand the effects of therapeutic exercise for:

- -Health related outcomes in those with chronic diseases and conditions;
- -Fitness programming and outcomes across the general population's lifespan; and
- -Sports performance training principles for athletes of all levels.

Exercise Science Professionals will serve in:

- · Collegiate and Professional Sports Teams
- · Athletic Performance Centers
- · Fitness and Wellness Centers
- · Hospital Fitness and Clinical Rehabilitation Centers
- · University / Industry Research Laboratories
- · Weight Control Programs
- · Fitness and Sales Industries

Students enrolled in Marshall University's Exercise Science Programs obtain hands-on experiences with health, fitness and sport assessments and testing within our state of the art Exercise Physiology Laboratories (MUEPL (https://www.marshall.edu/exercise-science/muepl/)). Internship or Graduate Assistant opportunities involve working with community members in the Diabetes and Cardiometabolic Exercise Center (MU Clinical Exercise Lab (MUCEL (https://www.marshall.edu/exercise-science/cepl/)) or with general populations and athletes in the Human Performance Lab (MUEPL (https://www.marshall.edu/exercise-science/muepl/)).

Marshall University Exercise Science students are well-prepared for premier certifications in exercise such as American College of Sports Medicine (ACSM) (https://certification.acsm.org/) and National Strength and Conditioning Association (NSCA) (https://www.nsca.com/CSCS_Certification_2/).

Admission Requirements

- · Accepted into Marshall University
- Declare Clinical Exercise Science as your Major

Graduation Requirements

- A minimum overall GPA of 2.5.
- A minimum grade of C in Major coursework.

Course Requirements

- 💎 General Education Course
- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend

disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculu		
Core 1: Critical Ti	S .	
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		6
Core 2	Paginning Composition	2
_	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103 💎	Fund Speech-Communication	3
Core II Math Red	quirement	3-5
Core II Phys./Na	tural Science	4
Core II Humanit		3
Core II Social Sc		3
Core II Fine Arts		3
	rsity Requirements	
Writing Intensiv		3
Writing Intensiv		3
Multicultural/Int	ternational	3
Capstone		3
Code	Title	Credit Hours
Major Course F	Requirements	
BSC 120 🚗	Principles of Biology I	3
BSC 120L 💎	Principles of Biology I Lab	1
BSC 121 💎	Principles of Biology II	3
BSC 121L 💎	Prin of Biology II Lab	1
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228 💎	Human Physiology	3
BSC 228L 🗬	Human Physiology Lab	1
DTS 210	Nutrition	3
CHM 211 🗬	Principles of Chemistry I ¹	3
CHM 217 💎	Principles of Chem Lab I	2
CHM 212 💎	Principles Chemistry II	3
CHM 218 💎	Principles of Chem Lab II	2
ESS 215	Intro to Exercise Science	3
ESS 345	Exercise Physiology	3
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 386	Adult Fitness	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
ESS 478	Energy Sources Body Comp	3
ESS 491 💎	Internship Exercise Science	6
HP 240	Intro to Human Diseases in HS	3
HS 200 💎	Comp Medical Terminology (CT)	3
HS 201	Intro Appl Anat & Physiol	3
HS 222	Hlth Prov First Aid/CPR/AED	3

HS 365	Functional Kinesiology	3
HS 365L	Functional Kinesiology Lab	1
HS 369	Motor Learning	3
HS 405	Sport Psychology	3
or PSY 405	Sport Psychology	
HS 410	Organ Admin in Kines	3
PSY 201 💎	Introductory Psychology (CT)	3
PSY 223 💎	Elem Behavioral Stat	3
PSY 440	Physiological Psychology	3
SOC 200 🗬	Understanding Society (CT)	3

¹ CHM 111 may be required based on pre-requisites or placement exam.

Semester Plan

💎 - General Education Course

► - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Credit

First Year

First Semester

First Semester		Credit Hours
HS 200 🐢	Comp Medical Terminology (CT)	3
HS 201	Intro Appl Anat & Physiol	3
ENG 101 💎	Beginning Composition	3
MTH 121 🗬	Concepts and Applications (CT) (Or Higher)	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	16
Second Semeste	er	
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
ENG 201 💎	Advanced Composition	3
PSY 201 💎	Introductory Psychology (CT)	3
Fine Art Elective		3
CMM 103 🚗	Fund Speech-Communication	3
	Credit Hours	16
Second Year		
First Semester		
BSC 228 💎	Human Physiology	3
BSC 228L 🔫	Human Physiology Lab	1
ESS 215	Intro to Exercise Science	3
HS 222	Hlth Prov First Aid/CPR/AED	3
Restricted Electiv	/e	3
PSY 223 💎	Elem Behavioral Stat	3
	Credit Hours	16
Second Semeste	er	
HS 365	Functional Kinesiology	3
HS 365L	Functional Kinesiology Lab	1
HS 410	Organ Admin in Kines	3
BSC 120 💎	Principles of Biology I	3

BSC 120L 💎	Principles of Biology I Lab	1
DTS 210	Nutrition	3
	Credit Hours	14
Third Year		
First Semester		
ESS 345	Exercise Physiology	3
PSY 440	Physiological Psychology	3
BSC 121 💎	Principles of Biology II	3
BSC 121L 💎	Prin of Biology II Lab	1
Restricted Elect	ive	3
Humanities Elec	ctive	3
	Credit Hours	16
Second Semest	ter	
ESS 386	Adult Fitness	3
ESS 478	Energy Sources Body Comp	3
HS 369	Motor Learning	3
CHM 211 💎	Principles of Chemistry I	3
CHM 217 💎	Principles of Chem Lab I	2
SOC 200 💎	Understanding Society (CT)	3
	Credit Hours	17
Fourth Year		
First Semester		
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
CHM 212 💎	Principles Chemistry II	3
CHM 218 💎	Principles of Chem Lab II	2
	Credit Hours	12
Second Semest	ter	
ESS 491 💎	Internship Exercise Science	6
HP 240	Intro to Human Diseases in HS	3
Restricted Elect	ive	1
HS 405	Sport Psychology	3
or PSY 405	or Sport Psychology	
	Credit Hours	13
	Total Credit Hours	120

Areas of Emphasis

- Pre-Med, Emphasis (Exercise Science) (http://catalog.marshall.edu/ undergraduate/programs-az/health-professions/health-movementsciences/exercise-science-bs/pre-med-emphasis-exercise-science/)
- Pre-Physical Therapy, Emphasis (Exercise Science) (http:// catalog.marshall.edu/undergraduate/programs-az/healthprofessions/health-movement-sciences/exercise-science-bs/prephysical-therapy-emphasis-exercise-science/)
- Pre-Physician Assistant, Emphasis (Exercise Science) (http:// catalog.marshall.edu/undergraduate/programs-az/healthprofessions/health-movement-sciences/exercise-science-bs/prephysician-assistant-emphasis-exercise-science/)