

EXERCISE SCIENCE (B.S.) - 3+3 EARLY ASSURANCE PRE- PHYSICAL THERAPY

STUDENT LEARNING OUTCOMES

- Graduates will be able to assess the basic components of fitness, with an understanding of the health and physiological significance of each measurement.
- Graduates will be able to demonstrate the ability to analyze a biomechanical skill and communicate their findings with an emphasis placed upon performance and injury prevention.
- Graduates will demonstrate professionalism in an authentic situation and will perform as an entry level professional in the field.
- Graduates will be able demonstrate the ability to carry about research by designing a research study, collecting data, analyzing data with the proper statistical analysis and also by writing a research style paper.
- Graduates will show acceptable levels of fitness for professionals in the fields of health and wellness.
- Graduates will be able to review a specific disease pathology, evaluate specific limitations to exercise and create an effective exercise protocol for that population.

Recommended

- A Global Learning (GL) experience (<http://catalog.walsh.edu/undergraduate/academic-services/#globallearning>)

Required

- General Education Requirements (<http://catalog.walsh.edu/undergraduate/general-education-curriculum/>)

Code	Title	Hours
Exercise Science Requirements (29 credit hours)		
EXS 100	Foundations of Exerc & Sprt Sci	3
EXS 101	Exercise Physiology I	3
EXS 102	Exercise Physiology II	3
EXS 150	First Aid and CPR	2
EXS 225	Strength Training and Conditin	3
EXS 300	Exercise Testing & Prescription	3
EXS 375	Research Design & Elemen. Stats	3
EXS 385	Biomechanics	3
EXS 484	Pathophys. of Chronic Disease	3
EXS 485	SL: Exs. Manag. Of Chronic Diseas.	2
EXS 498	Research Seminar	1
Other Requirements (46 credit hours)		
BIO 101	FD: T1: Principles of Biology I	3
BIO 101L	Principles of Biology I: Lab	1
BIO 102	Principles of Biology II	3
BIO 102L	Principles of Biology II: Lab	1
BIO 209	Anatomy/Physiology I	3
BIO 209L	Anatomy/Physiology I: Lab	1
BIO 210	Anatomy/Physiology II	3
BIO 210L	Anatomy/Physiology II: Lab	1
BIO 309	Human Physiology	4

CHEM 101	FD:T1:Princ of Chemistry I	3
CHEM 101L	Principles of Chemistry I: Lab	1
CHEM 102	Principles of Chemistry II	3
CHEM 102L	Principles of Chemistry II: Lab	1
MATH 155	Elementary Functions I	3
MATH 156	Elementary Functions II	3
PHYS 101	Principles of Physics I	3
PHYS 101L	Principles of Physics I: Lab	1
PHYS 102	Principles of Physics II	3
PHYS 102L	Principles of Physics II: Lab	1
PSYC 210	T1:DV:FD: HumanDevelAcrossLife	3
Physical Therapy Requirements (4th Year) (20 credit hours)		20
PT 503	Human Anatomy	5
or PT 603	Human Anatomy	
PT 504	Foundations of Neuroscience	4
or PT 604	Foundations of Neuroscience	
PT 506	Foundations of Pharmacology	2
or PT 606	Foundations of Pharmacology	
PT 511	Foundations of Examination I	4
or PT 611	Foundations of Examination I	
PT 515	Foundations of Biomechanics	5
or PT 615	Foundations of Biomechanics	