BIOLOGY — PRE-PHYSICAL THERAPY (B.S.)

Student Learning Outcomes

a. Students will demonstrate knowledge of discipline- specific content related to macro- principles describing the 3 domains of biology and the molecular nature of life.
b. Students will use critical thinking by demonstrating the ability to recognize the components of a problem, formulate a strategy to solve the problem, apply comprehensive scientific knowledge to execute a solution and then evaluate the effectiveness of the solution.
c. Students will demonstrate communication skills reflective of professional standards consistent biology-related associations (i.e. FASEB).
d. Students will demonstrate discipline- specific core laboratory and calculation- based skills related to the characterization and classification of life forms, their components and habitats and in the molecular analysis of living species.
e. Students will demonstrate readiness for post-baccalaureate entry into a workforce or acceptance into graduate or professional programs in Biology and/or health professions.
f. Students will demonstrate global perspective in their understanding of how biological factors affect economics, health, technology and the environment.

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/)
- Internship

Code	Title	Hours
Biology		
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 206	Microbiology	3
BIO 206L	Microbiology: 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
BIO 390	Biology Internship	1-3
Biology Electives		
BIO Upper-Division Electives (300-level or higher) A maximum of 2 credits of BIO 411/412 may be taken.		7
Chemistry		
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
CHEM 208	Organic Chemistry I	2
CHEM 201L	Organic Chemistry I: Lab	1
CHEM 209	Organic Chemistry II	2
CHEM 202L	Organic Chemistry II: Lab	1
Physics		
PHYS 101	Principles of Physics I	3
or PHYS 201	Physics with Calculus I	
PHYS 101L	Principles of Physics I: Lab	1
PHYS 102	Principles of Physics II	3
or PHYS 202	Physics with Calculus II	
PHYS 102L	Principles of Physics II: Lab	1
Psychology		
PSYC 120	T1:FD: Principles of Psych *	3
PSYC 210	T1:DV:FD: HumanDevelAcrossLife	3
Mathematics		
Select one of the following:		5-6
MATH 155 & MATH 156	Elementary Functions I and Elementary Functions II	
or MATH 210A & MATH 211	Calculus I and Calculus II	
MATH 221	Statistics	3
Other		
EXS 381	Physiology of Exercise	3
Total Hours		**71-74**

**Math and Science requirements in major also fulfill core requirements.*

All courses required in the major must be completed with a "C-" or better in order to satisfy the major. If a student places into MATH 156, then they only need to complete MATH 156 to fulfill the math requirement. If a student places into MATH 210A then they have completed the Math requirement for this major. If MATH 221 is required, it must still be taken. Incoming students need to place into MATH 104 in order to enroll in BIO 101 and MATH 155 to enroll in CHEM 101.