

INTEGRATIVE PHYSIOLOGY (PHD)

Contacts

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Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/life-sciences/degrees-programs/phd-programs/integrative-physiology.html>)

Program Description

The PhD Program in Integrative Physiology employs a multidisciplinary approach to train students in the rigors of experimental biomedical sciences and to prepare them for careers across a broad array of academic, industry, and government careers. The main theme of the program is in Cardiovascular Physiology, and many of the faculty are drawn from the Cardeza Foundation – Division of Hematology, and the Center for Translational Medicine, of the Department of Medicine at Sidney Kimmel Medical College. However, the program includes faculty from across many academic departments, divisions and research centers across Jefferson, whose research interests encompass a broad spectrum of basic and translational topics and model systems including cellular and molecular physiology, and normal and pathophysiology of the cardiovascular, pulmonary and gastrointestinal systems.

Curriculum: 5.5 years, 180 credits

Course	Title	Credits
First Year		
GC 550	Found in Biomedical Sciences	10
GC 760	PhD Laborator Rotation II	3
PS 710	Seminar	1
PS 730	Current Literature	1
PS 910	Research	V
GC 770	PhD Laboratory Rotation	3
PS 655	Fund of Integrative Physiology	3
GC 640	Research Ethics	1
PS 720	Seminar	1
PS 731	Current Lit-PS II	1
PS 656	Adv Integrative Physiology	3
GC 550D	Rudiments/ComputationalBio&Med	1
NS 740	Applied Statistics in Neurosci	2
PS 730	Current Literature	1
PS 732	Current Literature	1
PS 920	Research	V
PS 930	Research	V
PS 940	Research	V
Credits		32
Second Year		
GC 665	Cell Signaling	4
PS 710	Seminar	1
PS 730	Current Literature	1
PS 910	Research	V
GC 730	Planning&Writing ResearchGrant	1
General Elective		V
PS 720	Seminar	1
PS 731	Current Lit-PS II	1
General Elective		V

Course	Title	Credits
PS 730	Current Literature	1
PS 732	Current Literature	1
PS 920	Research	V
PS 930	Research	V
PS 940	Research	V
Credits		11
Third Year		
PS 710	Seminar	1
PS 730	Current Literature	1
PS 910	Research	V
PS 720	Seminar	1
PS 731	Current Lit-PS II	1
PS 920	Research	V
PS 730	Current Literature	1
PS 732	Current Literature	1
PS 930	Research	V
PS 930	Research	V
Credits		6
Fourth Year		
Thesis		
Credits		0
Fifth Year		
Thesis		
Credits		0
Total Credits		49