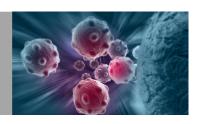


Master's Program Molecular & Cellular

Molecular & Cellular Basis of Disease



Plan B (non-thesis) MS Degree: 30 credits, including a review paper project (Independent Study)

REQUIRED COURSES

Year 1 Fall: Cell and Molecular Biology (Choose one)		Healthcare Track	Research Track
PATH 475IBMS 455/ IE	<u> </u>	3 cr -	- 6 cr
Year 1 Spring: Basic Pathologic Mechanisms (PATH 510)		4 cr	4 cr
PATH 650 Indep	endent Study (2 terms x 1 credit each)	1 cr	1 cr
	tives (Choose at least one) Fundamental Immunology (4 cr) Advanced Immunology (4 cr) Immunology of Infectious Diseases (3 cr) Tumor Immunology (3 cr) Cancer Biology at the Interface of Clinical C Current Topics in Cancer (3 cr) Neurodegenerative Diseases (3 cr) Histology and Ultrastructure (4 cr)	3-4 cr Oncology (3 cr)	3-4 cr
	TOTAL REQUIRED	12-13 cr*	15-16 cr*

^{*} The remainder of the MS degree program is composed of elective coursework.

PRE-APPROVED ELECTIVES

BIOL 426	Genetics	3 cr	Fall/ Spring/Summer
PATH 513	Immunology Journal Club	1 cr	Fall/ Spring
NTRN 452	Nutritional Biochemistry and Metabolism	3 cr	Fall/ Spring
BIOC 407	Biochemistry: Molecules to Medicine	4 cr	Fall
BIOC 501	Biochemical & Cellular Techniques for Biotech	3 cr	Fall
IBMS 456B	Since You Were Born: Nobel Prize Research	1 cr	Fall
MGRD 410	Introduction to Clinical Inquiry I	3 cr	Fall
PATH 410	Aging and the Nervous System	1 cr	Fall
PATH 420	Topics in Evolution and Medicine	3 cr	Fall
PATH 466	Proposal Writing for Immunologists	1 cr	Fall
PATH 511	Pathology Seminar	1 cr	Fall
PATH 525	Neurodegenerative Diseases of the Brain & Eye	3 cr	Fall
PHOL 480	Physiology of Organ Systems	4 cr	Fall
PHRM 409	Introduction to Pharmacology	3 cr	Fall
BIOL 443	Microbiology	3 cr	Spring/ Summer
IBMS 500	Responsible Conduct of Research	1 cr	Spring

•	MGRD 411	Introduction to Clinical Inquiry II	3 cr	Spring
•	MBIO 445	Molecular Biology of DNA and RNA Viruses	3 cr	Spring
•	PATH 480	Logical Dissection of Biomedical Investigations	3 cr	Spring
•	PATH 512	Pathology Seminar	1 cr	Spring
•	PHOL 466	Cell Signaling	3 cr	Spring
•	PQHS 450	Clinical Trials and Intervention Studies	3 cr	Spring
•	BIOC 405	Introduction to Biochemistry	3 cr	Summer
	ANAT 410	Gross Anatomy	6 cr	Summer

ELECTIVES PENDING REVIEW

These electives require the permission of the MS Program Director <u>prior</u> to registration.

•	ANAT 401	Virtual Anatomy of the Human Body	2 cr	Fall
•	ANAT 411	Gross Anatomy	6 cr	Spring
•	ANAT 414	Neurological Anatomy	4 cr	Fall
•	ANAT 431	Statistical Methods I	3 cr	Fall
•	ANAT 491	Embryology	3 cr	Fall
•	NTRN 401	Nutrition for Community & Healthcare	2 cr	Summer/Fall
•	PHOL 410	Basic Oxygen and Physiologic Function	3 cr	Summer/ Fall
•	PHOL 477	Human Physiology	3 cr	Fall
•	PHOL 479	Clinical Reasoning: Applied Medical Physiology	3 cr	Summer/ Fall
•	PHOL 492	Clinical Reasoning II	3 cr	Summer/ Spring
•	PHOL 485	Comparative & Evolutionary Physiology	4 cr	Summer/ Spring
•	STAT 425	Data Analysis and Linear Models	3 cr	Fall
•	STAT 445	Theoretical Statistics I	3 cr	Fall

Other electives are available upon request.