

NEUROSCIENCE, SYSTEMS BIOLOGY AND BIOENGINEERING – M.S., PH.D. COMPARISON

	Course Title	MS	PhD
Basic science core			
IBGS 501	Biomedical Communication and Integrity	2.0	2.0
IBGS 502	Biomedical Information and Statistics	2.0	2.0
IBGS 511	Cellular Mechanisms and Integrated Systems I	6.0	6.0
IBGS 512	Cellular Mechanisms and Integrated Systems II	6.0	6.0
IBGS 503	Biomedical Grant Writing		2.0
IBGS 522	Cellular Mechanisms and Integrated Systems II Journal Club		2.0
IBGS 523	Cellular Mechanisms and Integrated Systems III Journal Club		2.0
Totals		16.0	22.0

	Course Title	MS	PhD
Seminars			
IBGS 604	Introduction to Integrative Biology Presentation Seminar	1.0	1.0
IBGS 605	Integrative Biology Presentation Seminar (1)	1.0	2.0
IBGS 607	Integrated Biomedical Graduate Studies Seminar (1)	1.0	1.0
Totals		2.0	3.0

	Course Title	MS	PhD
Religion			
RELE 5__	Must be numbered 500 or above		3.0
RELR 5__	Must be numbered 500 or above		3.0
RELT 5__	Must be numbered 500 or above		3.0
REL_ 5__	Must be numbered 500 or above with an RELE, RELR, or RELT prefix	3.0	
Totals		3.0	9.0

	Course Title	MS	PhD
Program specific courses			
	See Ph.D. degree program for choice of courses		23.0
	See M.S. degree program for choice of courses	16.0	
Totals		16.0	23.0

	Course Title	MS	PhD
MS degree completion options			
	Required:	11.0	
	Coursework track:		
	Electives (11 units)		
	Research/Thesis track:		
	Electives (0-2 units)		
	IBGS 698 Thesis		

NSBB 697 Research

Totals		11.0	
	Course Title	MS	PhD
PhD research/dissertation			
NSBB 697	Research (1-8)		12.0
IBGS 696	Research Rotations (1)		2.0
IBGS 699	Dissertation (1-5)		2.0
Totals			16.0
Overall Totals		48.0	73.0

¹ Registration and attendance required every quarter in residence, but units do not count toward total required for graduation.

² At least 2 units must be in a techniques course and 2 units in a didactic literature-based course.