

Master of Biomedical Sciences Curriculum

Degree Type

Master of Biomedical Sciences

Fall Quarter

Core Requirements

Course Code	Title	Credits
BMMSG 501	Foundations of Research	1.0
BMMSG 504	Graduate Seminar Series	1.0
BMMSG 541	Genetics	3.0
BMMSG 554	Molecular Cell Biology	3.0
BMMSG 555	Human Biochemistry	4.0
PHYSG 1572	Human Physiology I	4.0
Sub-Total Credits		16

Elective Course Options

Course Code	Title	Credits
BMMSG 803	Science Communication	1.5
BMMSG 845	Oncology	3.0
Sub-Total Credits		4.5

Winter Quarter

Core Requirements

Course Code	Title	Credits
BMMSG 505	Graduate Seminar Series	1.0
BMMSG 507	Journal Club	1.0
BMMSG 520	Laboratory Rotation	2.0
PHYSG 1583	Human Physiology II	4.0
Sub-Total Credits		8

Required Elective Courses: Minimum 4 credits

Course Code	Title	Credits
ANATG 506	Human Anatomy with Laboratory	4.0
BMMSG 570	Principles of Pharmacology	4.0
Sub-Total Credits		4

Other Elective Courses

Course Code	Title	Credits
BMMSG 816	Introduction to Medical Ethics	2.0
BMMSG 861	Evolution & Human Disease	2.0
BMMSG 874	Pre-Dental Simulation Course	1.0
Sub-Total Credits		5

Spring Quarter

Core Requirements

Course Code	Title	Credits
BMMSG 506	Graduate Seminar Series	1.0
BMMSG 518	Concepts of Research Statistics	1.0
BMMSG 528	Research Protocol	2.0
BMMSG 581	Laboratory Research	1.0-6
Sub-Total Credits		5-10

Required Elective Courses: Minimum 2 credits

Course Code	Title	Credits
BMMSG 521	Microbiology	4.0
BMMSG 524	Immunology	2.0
BMMSG 571	Advanced Pharmacology and Chemotherapy	3.0
Sub-Total Credits		2

Other Elective Courses

Course Code	Title	Credits
BMMSG 822	Molecular Virology	2.0
BMMSG 840	Exercise in Health and Research	2.0
BMMSG 841	Precision Medicine	2.0
BMMSG 863	Neuroscience	3.0
Sub-Total Credits		9

Second Year Curriculum

Summer Quarter

Course Code	Title	Credits
BMMSG 615	Research Literature Review	2.0
BMMSG 618	Philosophical Foundations of Research	3.0
BMMSG 680	Laboratory Research	1.0-10
Sub-Total Credits		14

Fall Quarter

Course Code	Title	Credits
BMMSG 608	Graduate Seminar Series	1.0
BMMSG 681	Laboratory Research	1.0-10
BMMSG 691	Research Thesis	1.0-2
Sub-Total Credits		6-13

Winter Requirements

Course Code	Title	Credits
BMMSG 609	Graduate Seminar Series	1.0
BMMSG 625	Statistical Analysis of Data	2.0
BMMSG 682	Laboratory Research	1.0-10
BMMSG 692	Research Thesis	1.0-4
Sub-Total Credits		6-17

Spring Quarter

Course Code	Title	Credits
BMMSG 610	Graduate Seminar Series	1.0
BMMSG 683	Laboratory Research	1.0-10
BMMSG 693	Research Thesis	1.0-4
Sub-Total Credits		6-15

Elective Courses

Course Code	Title	Credits
BMMSG 891	Advanced Topics I	1.0-3
BMMSG 892	Advanced Topics II	1.0-3
BMMSG 893	Special Topics	1.0-3
Sub-Total Credits		3-9
Total Credits		72