

Master of Arts in Biomedical Sciences Curriculum

Degree Type

Master of Arts

Fall Quarter Required Courses

Course Code	Title	Credits
BMMAG 501	Foundations of Research	1.0
BMMAG 541	Genetics	3.0
BMMAG 554	Molecular Cell Biology	3.0
BMMAG 555	Human Biochemistry	4.0
PHYSG 1571	Human Physiology I	4.0
Sub-Total Credits		15

Elective Course Options

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

Winter Quarter Required Courses

Course Code	Title	Credits
ANATG 505	Human Anatomy with Laboratory	4.0
BMMAG 500	Introduction to Capstone Course	1.0
BMMAG 516	Introduction to Medical Ethics	2.0
BMMAG 570	Principles of Pharmacology	4.0
PHYSG 1582	Human Physiology II	4.0
Sub-Total Credits		15

Elective Course Options

Course Code	Title	Credits
BMMAG 807	Journal Club	1.0
BMMAG 861	Evolution & Human Disease	2.0
BMMAG 874	Pre-Dental Simulation Course	1.0
BMMAG 881	Laboratory Research	1.0-3
Sub-Total Credits		5-7

Spring Quarter Required Courses

Course Code	Title	Credits
BMMAG 590	Capstone Course	2.0
BMMAG 521	Microbiology	4.0
BMMAG 524	Immunology	2.0
BMMAG 571	Advanced Pharmacology and Chemotherapy	3.0
Sub-Total Credits		11

Elective Course Options: 4 Elective Credits Required

Course Code	Title	Credits
BMMAG 518	Concepts of Research Statistics	1.0
BMMAG 581	Laboratory Research	1.0-6
BMMAG 822	Molecular Virology	2.0
BMMAG 840	Exercise in Health and Research	2.0
BMMAG 841	Precision Medicine	2.0
BMMAG 863	Neuroscience	3.0
BMMAG 891	Advanced Topics I	1.0-3
BMMAG 892	Advanced Topics II	1.0-3
BMMAG 893	Special Topics	1.0-3
Sub-Total Credits		4

Students Entering Prior to 2023

Students entering prior to Fall 2023 will complete curriculum in effect at the time of their matriculation. Total Quarter Credits for Completion of the Program: 45

Fall Quarter Required Courses

Course Code	Title	Credits
ANATG 503	Human Anatomy with Laboratory	4.0
BMMAG 500	Introduction to Capstone Course	1.0
BMMAG 550	Biochemistry	3.0
BMMAG 554	Molecular Cell Biology	3.0
PHYSG 1571	Human Physiology I	4.0
Sub-Total Credits		15

Winter Quarter Required Courses

Course Code	Title	Credits
BMMAG 516	Introduction to Medical Ethics	2.0
BMMAG 524	Immunology	2.0
BMMAG 525	Microbiology I	2.0
BMMAG 574	Pharmacology I	3.0
HISTG 502	Histology	2.0
PHYSG 1582	Human Physiology II	4.0
Sub-Total Credits		15

Spring Quarter Required Courses

Course Code	Title	Credits
BMMAG 526	Microbiology II	4.0
BMMAG 541	Genetics	3.0
BMMAG 575	Pharmacology II	4.0
BMMAG 590	Capstone Course	2.0
Sub-Total Credits		13

Required Elective Courses

Approved Course Substitutions

BMMAG 502 Introduction to Capstone may substitute for [BMMAG 500](#) Introduction to Capstone.

BMMAG 555 Human Biochemistry may substitute for [BMMAG 550](#) Biochemistry.

ANATG 505 Human Anatomy with Laboratory may substitute for [ANATG 503](#) Human Anatomy with Laboratory and [HISTG 502](#) Histology.

BMMAG 521 Microbiology may substitute for [BMMAG 525](#) Microbiology I and [BMMAG 526](#) Microbiology II.

BMMAG 591 Capstone Course may substitute for [BMMAG 590](#) Capstone Course.

BMMAG 570 Principles of Pharmacology and BMMAG 571 Advanced Pharmacology & Chemotherapy may substitute for [BMMAG 574](#) Pharmacology I and [BMMAG 575](#) Pharmacology II.

Sub-Total Credits	2
Total Credits	45