

USC SCHOOL	Keck School of Medicine
ACADEMIC DEPARTMENT	Biochemistry & Molecular Medicine
GRADUATE PROGRAM	M.S. Biochemistry & Molecular Medicine
POST CODE	1668
TERM EFFECTIVE DATE	Spring 2021

PROGRAM DESCRIPTION

A brief description of the graduate program.

The Biochemistry and Molecular Medicine Master of Science degree program seeks to provide rigorous theoretical and practical training in biochemistry and molecular medicine-related research. Students are expected to write and defend a thesis that describes research completed in the laboratories of BMM faculty members investigating various scientific areas including inherited diseases, cancer, development, stem cells, drug discovery, epigenetics, structural biology and bioinformatics. A majority of our graduates have been successful in gaining admission to top PhD programs or internships/jobs in the biotech or pharmaceutical industry.

COMMON BACHELOR DEGREE PROGRAM PATHWAYS

A list of common bachelor's degrees that undergraduate students pursue in advance of pursuing a progressive degree option with this graduate program. Some programs are restricted to certain majors while others are open to all students.

Human Biology	Biological Sciences
Biochemistry	Biophysics
Neuroscience	Human Development and Aging
Quantitative Biology	Biomedical Engineering

PREPARATORY UNDERGRADUATE COURSES

A list of courses at the undergraduate level that prepare students for the graduate program. Required coursework is listed first, followed by recommended courses. If not applicable, this section will be blank.

Dept. Prefix - Course #	Course Title	Required or Recommended	Units
	None		

UNDERGRADUATE COURSES USED TO REDUCE GRADUATE LEVEL UNITS

A list of undergraduate level courses that may be used to reduce the number of graduate level units required for the graduate program. If there are none, that is specified instead.

Dept. Prefix - Course #	Course Title	Units
	NONE	

CORE GRADUATE PROGRAM REQUIREMENTS (# units required)

A list of all required graduate courses for the graduate program. None of these courses may be used toward satisfying undergraduate degree requirements.

If special exceptions for any of these courses are made by the academic department, the course # is marked with an asterisk () and the exception is explained in the "Department Notes" section at the end of this course plan template.*

Dept. Prefix - Course #	Course Title	Units
BIOC 511	Foundations of Molecular Medicine	4
BIOC 515	Logic and Design of Mechanism Studies	4
BIOC 581	Toolbox for Biochemistry and Molecular Medicine	4
BIOC 599 (currently Special Topics)	Exploring the Path from Data to Publication	2
BIOC 594A	Thesis Research	2
BIOC 594B	Thesis Research	2
BIOC 590	Directed Research	6

PRE-APPROVED ELECTIVE COURSEWORK

Elective coursework is approved at the discretion of the academic department. Note the following details about the total number and units required of elective coursework.

0	TOTAL ELECTIVE COURSES REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
0	TOTAL ELECTIVE UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE

TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS

34	TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
10	TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)
24	MINIMUM NUMBER OF GRADUATE UNITS THAT MUST BE AT THE 500 LEVEL OR ABOVE

NOTES FROM THE DEPARTMENT

This section highlights any unique considerations, exceptions, or requirements for the graduate program. If a program has specific restrictions (courses, majors, etc.), they are detailed below.

N/A

Axel H. Schönthal

Name of Authorizing Master's Program Dean

4/4/2021

Date Approved

Associate Dean for Biomedical Master's Programs

Authorizing Dean's Title