

# UPDATED REQUIREMENTS

## Molecular and Cell Biology Summer 2021 Courses

MCB Students who have not yet declared, declared Fall 2020 or later, or moved to the updated requirements

ONLINE or IN PERSON is subject to change -see Course, Search and Enroll to confirm modality  
 Level: E=Elementary, I=Intermediate, A=Advanced (L&S Students need at least 60 credits of I/A)  
 Be sure to check your DARs and pre-requisites!  
 Schedule an appointment with the MolBio Advisor with questions

Course Number	Credits	Level	Course Title
<b>Math and Statistics</b>			
Math 211	5	I	Calculus (Lec/Dis) ONLINE
Math 213	3	I	Calculus and Introduction to Differential Equations (Lec/Dis) ONLINE
Math 221	5	I	Calculus & Analytic Geometry I (Lec/Dis) ONLINE
Math 222	4	I	Calculus & Analytic Geometry II (Lec/Dis) ONLINE
Math 234	4	I	Calculus -Functions of Several Variables (Lec/Dis) ONLINE
Statistics 301	3	I	Introduction to Statistical Methods (Lec/Disc) ONLINE
Statistics 371	3	I	Intro Applied Statistics for Life Sciences (Lec/Disc) ONLINE

<b>General Chemistry</b>			
Chemistry 103	4	E	General Chemistry I (Lec/Lab/Dis) ONLINE
Chemistry 104	5	E	General Chemistry II (Lec/Lab/Dis) ONLINE

<b>Organic Chemistry</b>			
Chemistry 343	3	I	Introductory Organic Chemistry (Lec/Dis) ONLINE
Chemistry 344	2	I	Introductory Organic Chemistry Lab (Lab/Dis) ONLINE
Chemistry 345	3	I	Intermediate Organic Chemistry (Lec/Dis) ONLINE

<b>Physics</b>			
Physics 202	5	I	General Physics (Lec/Lab/Dis) ONLINE

<b>Introductory Biology</b>			
Zoology 101	3	E	Animal Biology (Lec) ONLINE
Zoology 102	2	E	Animal Biology (Lab) ONLINE

<b>Breadth Coursework</b>			
Biochemistry 501	3	A	Introduction to Biochemistry (Lec) ONLINE
Genetics 466	3	I	Principles of Genetics (Lec) ONLINE

### DEPTH COURSEWORK

<b>Genetics</b>			
Genetics 662	3	N/A*	Cancer Genetics (Lec) ONLINE

\*Does not provide I/A LAS credits -60 needed for graduation, see your DARs report or advisor

<b>Microbiology and Virology</b>			
Microbiology 303	3	I	Biology of Microorganisms (Lec) ONLINE

<b>Quantitative Biology</b>			
Math 240	3	I	Introduction to Discrete Math (Lec/Dis) ONLINE
Math 340	3	A	Elementary Matrix and Linear Algebra (Lec/Dis) ONLINE
Statistics 303	1	I	R for Statistics I (Lec) ONLINE
Statistics 304	1	I	R for Statistics II (Lec) ONLINE
Computer Sciences 300	3	I	Programming II (Lec) ONLINE
Computer Sciences 540	3	A	Introduction to Artificial Intelligence (Lec) ONLINE

<b>Laboratory Course</b>			
Chemistry 327	3	I	Fundamentals of Analytical Science (Lec/Lab) ONLINE
Microbiology 304	2	I	Biology of Microorganisms Lab

<b>Directed/Independent Research</b>			
Molecular Biology 681	3	A	Senior Honors Thesis I
Molecular Biology 682	3	A	Senior Honors Thesis II
Molecular Biology 691	3	A	Senior Thesis I
Molecular Biology 692	3	A	Senior Thesis II
Molecular Biology 699	1-4	A	Directed Studies