

MBB (694) Majors' Suggested Course Time Table

COURSE	CREDIT
FIRST YEAR	
General Biology (119:101,102)	4,4
Students with AP Biology credit should take Intro to Research (694:214 or 215-H)	3
General Chemistry (160:161,162) or (163,164)	4,4
Intro to Experimentation (Chem. lab., 160:171)	1
Calculus (640:151,152<rec, or 640:135,138, Statistics 960:401 can replace Calc II.)	4,4
SECOND YEAR	
Genetics (447:380) [Sp, Su, Fa] or Analytical Genetics (447:384 [Fa] and 385 [Sp])	4
Organic Chemistry (160:315, 316<rec) or (307, 308)	4,4
Organic Chemistry Lab (160:309<rec or 311)	2
Calculus (640:251) [Sp, Su, Fa] (Only if taking MBB Course Option I)	4
General Physics (750:203,204)	3,3
Physics Lab (750:205,206)	1,1
Intro. To MBB Research Lab (694:315) [Sp] (if schedule permits)	3
THIRD YEAR	
MBB Seminar: Careers in Science (694:383) [Fa]	1
Molecular Biology & Biochemistry (694:407 [Fa], 408 [Sp])	3,3
Intro. To MBB Research Lab (694:315) [Sp]	3
MBB Electives (Optional, see list below) *	3, 3
MBB Research – see options below	1-12
FOURTH YEAR	
MBB Seminar: Research Presentations (694:484 [Sp])	1
MBB Electives (Optional, see list below) *	3, 3
MBB Research – see options below	1-12
Physical Chemistry (160:341, 342, 323, 324, Only for MBB Course Option I)	3,3
MBB Course Option I (13 credits)	
<ul style="list-style-type: none"> Physical Chemistry (160:327-328, 3,3) (requires 640:251 as a prerequisite) or Physical Chemistry: Biochemical Systems (160:341-342, 3,3) Multivariable Calculus (640:251, 4) (Calculus 640:151,152 are required for this course) One 3-credit MBB Elective course. 	
MBB Course Option II (9 credits)	
<ul style="list-style-type: none"> Two 3-credit MBB elective courses One 400 level 3-credit elective course from MBB or a department in the Division of Life Sciences or approved by the Department of Molecular Biology and Biochemistry. 	
MBB Laboratory Research Options	
Lab Option I: Students taking 12 or more credits of research.	
Lab Option II: Students taking 6-11 credits of research and must take an additional MBB elective.	
MBB ELECTIVES --- see web page or consult advisor about other possible courses.	
Analytical Methods in Biology (694:230 [Fa])	
Molecular Pathways (694:411 [Fa])	
Proteomics & Structural Genomics (694:412 [Sp])	
Chromatin and Epigenomics (694:413, [Fa])	
Solar Energy (694:414, [Sp])	
Special Topics in Molecular Biology & Biochemistry (694:420 [Fa], 421 [Sp])	
Molecular Biology of Gene Regulation & Development (694:492 [Sp])	