

Possible Four-Year Study Plan for Undergraduate BMB Majors

Fall	Winter	Spring
MAT 17A or 21A ² 4	MAT 17B or 21B 4	MAT 17C or 21C 4
CHE 2A or 2AH ¹ 5	CHE 2B or 2BH 5	CHE 2C or 2CH 5
GE or EC 4	BIS 2A 5	BIS 2A or 2B 5
_____	(GE or EC) (1-5)	(GE or EC) (1-5)
13	14-19	14-19
BIS 2A, B, or C 5	STA 100 or <u>130B</u> ⁵ 4	BIS 101 or 102 ³ 3-4
CHE 118A or 128A/129A 4-5	CHE 118B or 128B/129B 4-5	CHE 118C or 128C 3-4
PHY 7A or STA 100 or <u>130A</u> ⁵ 4	PHY 7B 4	PHY 7C or STA 100 4
(GE) (1-5)	(GE) (1-5)	(GE) (1-5)
_____	_____	_____
13-19	12-18	12-17
STA 100 4	BIS 102 or 103 3	BIS 103 or 104 3
BIS 102 or 101 ³ 3-4	CHE 107A or B or MCB 120/L ⁴ 3-6	CHE 107B or MCB 120/L ⁴ 3-6
CHE 107A or PHY 7A or RE 3-6	PHY 7B or RE 3-6	or MCB 121 or 123 or PHY 7C 3
(GE or EC) (1-5)	(GE or EC) (1-5)	or RE 3-6
_____	_____	_____
12-19	12-20	12-20
<u>CHE 107A</u> ⁵ 3	<u>CHE 107A or B</u> ⁵ 3	<u>CHE 107B</u> ⁵ or 3
MCB 121 or 123 or 124 3-4	MCB 121 or BIS 104 3	MCB 121 or 123 or 143 or BIS 104 3
RE (e.g., MCB 139, 193, 199) 3-6	RE 3-6	RE 3-6
(GE or EC) (1-5)	(GE or EC) (1-5)	(GE or EC) (1-5)
_____	_____	_____
12-18	12-17	12-17

******180 TOTAL UNITS and 64 UPPER DIVISION UNITS REQUIRED TO GRADUATE******
ALL MAJOR COURSES MUST BE TAKEN FOR A LETTER GRADE

Abbreviations: GE = General Education; EC = CBS English Composition Requirement; RE = Major Restricted Elective.

¹ Students with a good high school chemistry and physics background, good math skills and who score satisfactorily on diagnostic examinations may choose to take the Chem 2AH (honors) series. If they do not do well, they should continue on with Chem 2B and 2C.

² Math 21A requires a knowledge of analytic geometry and a facility for math. Students who do poorly in Math 21A should continue on with the Math 17 series.

³ Biochemistry majors are encouraged to start Bio Sci 101 in the spring quarter and 102 in the fall. Transfer students lacking organic chemistry may have to postpone 101 and 102 until the spring quarter. (Bio Sci 101, 102, 103 and 104 are taught all three quarters.)

⁴ MCB 120L can be taken in the winter quarter or the spring quarter of the third year.

⁵ Underlined courses are taught only during the quarter indicated.

3-Year Plan, No Summer Sessions

Attempting to complete the BMB degree in three years is not recommended for the reasons below. Students interested in attempting a three-year plan must meet with a BASC advisor to for an individual plan. The posted three-year plans are merely examples of possible pathways to attempt completing the BMB degree in three years.

- A three-year schedule should only be considered by students with exceptional ability who are willing to dedicate more than sixty hours each week to coursework and studying. Exceptional study habits will be necessary.
- The curriculum in BMB is challenging and cumulative. Students normally need time to practice and assimilate material in prerequisite courses to effectively learn material in subsequent courses. Completing the major in three years would not allow this for the majority of students.
- A three-year schedule is time-intensive and should only be considered by students who do not need outside employment while attending the University.
- The plan shown is just an example. Normal and summer session offerings are subject to change. There is not a guarantee that the suggested schedule will be available as written. Students should re-evaluate their entire schedule each quarter to adjust their schedule to accommodate such changes.
- A key aspect for BMB majors is carrying out internships and/or research outside of the classroom over multiple quarters. Such experience is needed for students to directly obtain employment following graduation, or to be competitive for admission to professional or graduate programs. The heavy course load required to finish in three years makes it difficult to obtain the necessary in-depth experience.
- Some mitigation of the time constraints could be provided by moving courses to the final summer session.
- **Major & GE requirements do not complete the 64 upper division unit requirement, therefore, 2 units of electives must be upper division, research, internship etc. to complete this requirement.**

Fall		Winter		Spring	
CHE 2A	5	CHE 2B	5	CHE 2C	5
MAT 21A	4	MAT 21B	4	BIS 2C	5
BIS 2A	5	BIS 2B	5	EC	4
GE	4	GE	4	GE	4
FRS/ELECTIVE	2	FRS/ELECTIVE	2	FRS/ELECTIVE	2
	<u>20</u>		<u>20</u>		<u>20</u>
CHE 118A	4	CHE 118B	4	CHE 118C	4
PHY 7A	4	PHY 7B	4	BIS 102	3
STA 100	4	BIS 101/101D	5	GE	3
GE	4	EC	4	PHY 7C	4
ELECTIVE	4	ELECTIVE	3	ELECTIVES	6
	<u>20</u>		<u>20</u>		<u>20</u>
BIS 103	3	CHE 107A	3	CHE 107B	3
MCB 120/L	6	MCB 121	3	MCB 143	3
BIS 104	3	RE	3	MCB 123	3
GE	4	GE	4	RE	3
GE	4	ELECTIVES	6	ELECTIVES	7
	<u>20</u>		<u>19</u>		<u>19</u>

Abbreviations: GE = General Education (see an adviser for categories covered by major courses); FRS = First-year Seminar; EC = College English Composition Requirement (lower & upper division); RE = Restricted Elective for the major.

3-Year Plan, With Summer Sessions

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- A three-year schedule is time-intensive and should only be considered by students who do not need outside employment while attending the University.
- The plan shown is just an example. Normal and summer session offerings are subject to change. There is not a guarantee that the suggested schedule will be available as written. Students should re-evaluate their entire schedule each quarter to adjust their schedule to accommodate such changes.
- A key aspect for BMB majors is carrying out internships and/or research outside of the classroom over multiple quarters. Such experience is needed for students to directly obtain employment following graduation, or to be competitive for admission to professional or graduate programs. The heavy course load required to finish in three years makes it difficult to obtain the necessary in-depth experience.
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Fall		Winter		Spring		Summer I		Summer II	
CHE 2A	5	CHE 2B	5	CHE 2C	5	GE	4	GE	4
MAT 21A	4	MAT 21B	4	BIS 2C	5				
BIS 2A	5	BIS 2B	5	EC	4				
		GE	4	GE	4				
		FRS/ELECTIVE	1	FRS/ELECTIVE	1				
	<u>14</u>		<u>19</u>		<u>19</u>		<u>4</u>		<u>4</u>
CHE 118A	4	CHE 118B	4	CHE 118C	4	BIS 103	3		
PHY 7A	4	PHY 7B	4	BIS 102	3				
STA 100	4	BIS 101/101D	5	PHY 7C	4	MCB 120/L *Special Session*			6
GE	3	GE	4	GE	4				
ELECTIVE	3	ELECTIVE	1	ELECTIVE	3				
	<u>18</u>		<u>18</u>		<u>18</u>				<u>9</u>
CHE 107A	3	CHE 107B	3	MCB 143	3				
BIS 104	3	MCB 121	3	RE	3				
MCB 123	3	RE	3	GE	4				
EC	4	GE	3	ELECTIVES	9				
ELECTIVES	6	ELECTIVES	6						
	<u>19</u>		<u>18</u>		<u>19</u>				

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