

## SUGGESTED PROGRAM – BACHELOR OF ARTS IN MATHEMATICAL BIOLOGY

### FIRST YEAR

Requirements	
<b>Fall Semester Suggested Program</b>	<b>Hours</b>
<b>MATH 1431.</b> Calculus I	4
<b>ENGL 1303.</b> First Year Writing I (Communications Core)	3
<b>HIST 1376</b> or <b>1377.</b> The United States to 1877	3
<b>POLS 1336.</b> U.S. and Texas Constitutions and Politics	3
<b>BIOL 1361.</b> Introduction to Biological Science	3
<b>BIOL 1161.</b> Introduction to Biological Science Laboratory	1
<b>Total</b>	<b>17</b>
<b>Spring Semester Suggested Program</b>	<b>Hours</b>
<b>MATH 1432.</b> Calculus II	4
<b>ENGL 1304.</b> First Year Writing II (Communications Core)	3
<b>HIST 1378</b> or <b>1379.</b> The United States Since 1877	3
<b>POLS 1337.</b> U.S. Government: Congress, President and Courts	3
<b>BIOL 1362.</b> Introduction to Biological Science	3
<b>BIOL 1162.</b> Introduction to Biological Science Laboratory	1
<b>Total</b>	<b>17</b>

### SECOND YEAR

Requirements	
<b>Fall Semester Suggested Program</b>	<b>Hours</b>
<b>MATH 2433.</b> Calculus III	4
<b>MATH 2331.</b> Linear Algebra	3
<b>CHEM 1331.</b> Fundamentals of Chemistry	3
<b>CHEM 1111.</b> Fundamentals of Chemistry Laboratory	1
<b>PHYS 1321.</b> University Physics I	3
<b>PHYS 1121.</b> Physics Laboratory I	1

<b>Total</b>	<b>15</b>
<b>Spring Semester Suggested Program</b>	<b>Hours</b>
<b>MATH 3331.</b> Differential Equations	3
<b>MATH 3338 .</b> Probability	3
<b>CHEM 1332.</b> Fundamentals of Chemistry	3
<b>CHEM 1112.</b> Fundamentals of Chemistry Laboratory	1
<b>PHYS 1322.</b> University Physics II	3
<b>PHYS 1122.</b> Physics Laboratory II	1
<b>Total</b>	<b>14</b>

### THIRD YEAR

Requirements	
<b>Fall Semester Suggested Program</b>	<b>Hours</b>
<b>MATH 3339.</b> Statistics for the Sciences	3
<b>BIOL 3301.</b> Genetics	3
<b>CHEM 3331.</b> Fundamentals of Organic Chemistry	3
<b>CHEM 3221.</b> Fundamentals of Organic Chemistry Laboratory	2
<b>BIOL 3311.</b> Genetics Laboratory*	3
<b>Total</b>	<b>14</b>
*BIOL 3311 meets the Writing in the Disciplines core requirement.	
<b>Spring Semester Suggested Program</b>	<b>Hours</b>
<b>BCHS 3304.</b> General Biochemistry I	3
<b>BIOL 3306.</b> Evolutionary Biology	3
MATH Elective at the 4000-level	3
Free Elective*	3
Humanities Core	3
<b>Total</b>	<b>15</b>

## FOURTH YEAR

Requirements	
<b>Fall Semester Suggested Program</b>	<b>Hours</b>
<b>BIOL 3324.</b> Human Physiology	3
BIOL/MATH 4309. Mathematical Biology	3
<b>BIOL 4374.</b> Cell Biology	3
Social & Behavioral Sciences Core	3
Visual and Performing Arts Core	3
<b>Total</b>	<b>15</b>
<b>Spring Semester Suggested Program</b>	<b>Hours</b>
BIOL/MATH 4310. Biostatistics	3
Free Electives*	10
<b>Total</b>	<b>13</b>
<b>Total Semester Hours: 120</b>	