

# Applied Mathematics-Biology

Suggested Course Sequencing: Recommend 15 – 17 semester hours;  
however, attending summer school will reduce semester hours.

## Freshman year

Semester 1	Cr
MATH 231 Calculus I [a]	4
BIOL 200 General Biology	4
CHEM 111 General Chemistry I [b]	5
BIBL 111 Essential Christianity	3
GSCI 100 University Seminar	1
EXER 101 Lifetime Health Awareness	1

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Semester 2	Cr
MATH 232 Calculus II	4
MATH 210 Elementary Statistics	3
BIOL 201 Zoology	4
BIBL 115 Old Testament Literature	3
ENGL 111 Composition	3

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## Sophomore year

Semester 1	Cr
MATH 233 Calculus III	4
PHYS 231 Engineering Physics I	5
CPSC 111 Introduction to Computer Science	3
BIBL 116 New Testament Literature	3
Effective Communication Option	3

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Semester 2	Cr
MATH 431 Differential Equations	3
BIOL Elective	4
FIN 138 Personal Finance	3
Historical Inquiry Option	3
PSYC 112 Introduction to Psychology	3

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## Junior year

Semester 1	Cr
MATH 310 Probability and Statistical Inference	3
BIOL Elective	4
BIBL 360-370 Book Study	3
ICST454 Global Cultures & Compassion	3
Reading and Imagination Option	3

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Semester 2	Cr
BIOL Elective	4
Artistic Expression Option	3
Behavioral and Social Sciences Option	3
Upper Division Electives	6

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## Senior year

Semester 1	Cr
MATH 331 Linear Algebra	3
BIOL Elective	4
Humanities Option	3
THEO 320 Pentecost	3
Upper Division Elective	3

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Semester 2	Cr
Upper Division Electives	15

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Total minimum to graduate **124**  
and must include at least **36** upper division credits

[a] Those not prepared for Calculus should take MATH 129 - College Algebra and Trigonometry.

[b] Those not prepared for CHEM 111 should take CHEM 101 - Introduction to Chemistry.

Graduation requires an overall GPA of at least 2.0, and 30 of the 40 final credits must be taken at Evangel.

The listing above only represents suggested course sequencing as required to graduate with this major. Students are ultimately responsible for their own degree program. An academic advisor is assigned to the student for guidance in these matters, but the responsibility for meeting the requirements belongs to the student.

# Applied Mathematics - Biology

## University Writing Proficiency and Placement Information

Writing Proficiency earned by . . . circle one: ENGL 111 ACT/SAT/CLT (Score: \_\_\_\_\_) AP CLEP IB  
**ACT English  $\geq$  26 or SAT Writing/Language (W/L)  $\geq$  33, CLT Writing/Grammar (W/G)  $\geq$  32:** Student is proficient. Enroll in Effective Communication option.  
 Refer to each term's "Core Options" document for available choices.

**If transfer student has ENGL 111 composition only,** enroll in a 200-level Effective Communication course.

**If transfer student has a 200-level (or above) composition course,** check for Speech course. If no Speech listed, enroll in COMM 211.

**If transfer student has a 200-level composition course AND a Speech course,** he or she is proficient.

**If student has no test scores,** enroll in ENGL 102.

**ACT English = 24-25, SAT W/L 31-32, CLT W/G 30-31:** take Writing Step-Up Exam in first semester.

ACT English 20-23, SAT W/L 28-30, CLT W/G 24-29: ENGL 111	3		<b>Wellness Proficiency</b>	Cr	<input checked="" type="checkbox"/>
ACT English 16-19, SAT W/L 23-27, CLT W/G 19-23: ENGL 102	2		EXER 101 Lifetime Health Awareness	1	
ACT English $\leq$ 15, SAT W/L $\leq$ 22, CLT W/G $\leq$ 18: ENGL 100	1				

## Core Curriculum Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
GSCI 100 University Seminar	1		Effective Communication Option (WPR)**	3	
BIBL 111 Essential Christianity	3		MATH 210 Elementary Statistics	3	NA
BIBL 115 Old Testament Literature	3		Historical Inquiry Option*	3	
BIBL 116 New Testament Literature	3		Artistic Expression Option*	3	
BIBL 360 - 370 Book Study (WPR)*	3		Behavioral and Social Sciences Option*	3	
THEO 320 Pentecost	3		Humanities Option*	3	
ICST 454 Global Cultures & Compassion*	3		Healthy Relationships: PSYC 112	3	
Natural Science without Lab Option*	3	NA	Christian Stewardship: FIN 138 Personal Finance	3	
Natural Science with Lab Option*	4	NA	Reading and Imagination: ENGL 123*	3	
*Refer to each term's "Core Options" document for available choices.			**ENGL/COMM 205 or 341; ENGL 211, 212, or 236		
WPR = Writing Proficiency Required: ENGL 111 or ACT English $\geq$ 26			If student has ENGL 201 in transfer, enroll in COMM 211.		

## Major Requirements (24 cr. MATH, 24 cr. BIOL, 5 cr. CHEM, 5 cr. PHYS, 3 cr. CPSC hours required)

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
<b>Required Math Courses</b>			<b>Required Computer Science Course</b>		
MATH 210 Elementary Statistics	3		CPSC 111 Introduction to Computer Science	3	
MATH 231 Calculus I	4		<b>Required Biology Courses</b>		
MATH 232 Calculus II	4		BIOL 200 General Biology	4	
MATH 233 Calculus III	4		BIOL 201 Zoology	4	
MATH 310 Probability and Statistical Inference	3		<b>Elective Biology Courses (Select four)</b>		
MATH 331 Linear Algebra	3		BIOL 202 Botany	4	
MATH 431 Differential Equations	3		BIOL 235 Microbiology for the Health Sciences	4	
<b>Required Chemistry Course</b>			BIOL 342 Ecology	4	
CHEM 111 General Chemistry I	5		BIOL 343 Environmental Biology	4	
<b>Required Physics Course</b>			BIOL 311 Human Anatomy & Physiology I	4	
PHYS 231 Engineering Physics I	5		BIOL 312 Human Anatomy & Physiology II	4	

**Minimum total credits to graduate 124**

In order to meet the required 124 credits to graduate, a student may need to take additional elective credits. To reach the requirement of 36 upper level credits, additional upper level credits must be taken.