

Minor in Biomathematics– Minimum Requirements

36 credits (17 upper-level credits)

Core Courses (30 credits; 11 upper-level)		Pre-requisites/Co-requisites	Credits
	BIOL 140 – Foundations of Biology: Ecology & Evolution	MATH 150 or higher or placement in MATH 151	4
	BIOL 141 – Foundations of Biology: Cells, Energy & Organisms	MATH 150 or higher or placement in MATH 151	4
	BIOL 302 – Molecular & General Genetics	BIOL 141, BIOL 142, CHEM 101/123, CHEM 102/120 (co-req) and (MATH 150 or higher or placement in MATH 151)	4
	STAT 350 Statistics with Applications in the Biological Sciences OR STAT 355 - Introduction to Probability and Statistics for Scientists and Engineers	MATH 150 or higher MATH 152	4
	MATH 151 - Calculus and Analytic Geometry I	MATH 150	4
	MATH 152 - Calculus and Analytic Geometry II	MATH 151 or MATH155B	4
	MATH 221 - Introduction to Linear Algebra	MATH 151 or MATH 155B	3
	MATH 355 - Biomathematics	MATH 152 and MATH 221	3
Electives (6 credits; 6 upper level) – See below for guidance			

Electives -- Complete 6 credits from the following courses unique to the minor, including a minimum of 3 credits from MATH:

MATH 385 - Introduction to Mathematical Modeling (3)	STAT 414 - Environmental Statistics (3)
MATH 426 - Introduction to Math Software Packages: MATLAB (2)	STAT 419 - Introduction to Biostatistics (3)
MATH 447 - Introduction to Parallel Computing (3)	STAT 432 - Statistical Computer Packages and Their Applications: SAS and R (1)
MATH 469 - Mathematical Physiology (3)	STAT 454 - Applied Statistics (3)

Notes

- A grade of "C" or better must be earned in all courses and prerequisites applied toward the minor. A course taken on a Satisfactory/Unsatisfactory basis will not count toward the minor.
- Two of the core courses cannot be used to satisfy the requirements of any other major and none of the electives can be used to satisfy the requirements of any other major.