

Mathematical Biology Minor

or MTH 207 Calculus I

Elective course options may have additional prerequisites.

(All colleges)

21 credits

Code	Title	Credits
Core		
BIO 203	Organismal Biology	4
or MIC 230	Fundamentals of Microbiology	
MTH 265	Mathematical Models in Biology	4
STAT 145	Elementary Statistics	4
or STAT 245	Probability and Statistics	
or CS 115	Introduction to Python Programming	
or CS 120	Software Design I	
Electives		
Biology literacy		3
BIO 306	Genetics	
BIO 307	Ecology	
BIO 315	Cell Biology	
BIO 365	Scientific Visualization	
BIO 419	Quantitative Methods in Ecology	
BIO 435	Molecular Biology	
CHM 407	Biophysical Chemistry	
CHM 417	Biochemistry I: Macromolecules	
CHM 418	Biochemistry II: Metabolism	
ENV 301	Environmental Sustainability	
MIC 310	Immunology	
MIC 350	Bacterial Diversity	
MIC 416	Prokaryotic Molecular Genetics	
MIC 425	Bacterial Physiology	
Quantitative literacy		3
MTH 308	Linear Algebra with Differential Equations	
MTH 353	Differential Equations and Dynamical Systems	
MTH 435	Mathematics for Data Driven Modeling	
STAT 305	Statistical Methods	
STAT 345	Statistical Computing	
STAT 443	Categorical Data Analysis	
STAT 444	Environmental Statistics	
STAT 445	Correlation and Regression Analysis	
STAT 446	Analysis of Variance and Design of Experiments	
STAT 447	Nonparametric Statistics	
STAT 449	Applied Multivariate Statistics	
Select at least three additional credits from the biology literacy or quantitative literacy electives.		3
Total Credits		21
Prerequisite courses		
Prerequisite courses		8
BIO 105	General Biology	
MTH 175	Applied Calculus	