

Individualized Mathematical Biology Minor Learning Plan

Name:	
Email:	
Graduation Year:	
Academic Advisor:	
Major(s):	

Do you plan to enter Truman’s Master of Arts in Education program: Yes, No.

Write a brief statement about your reasons for earning this interdisciplinary minor and about your post-graduate plans. This statement should be attached to this form and submitted electronically to the Mathematical Biology Minor oversight committee.

List the degree-related activities in which you are participating or planning to participate (*e.g.*, student organizations, attending Biology Seminars or Mathematical Biology Seminars, tutoring, grading):

The mathematical biology minor will be awarded to those students with experiences that demonstrate ability to work in an interdisciplinary way between (and within) the mathematical and life sciences. Specifically, a student must demonstrate work and experiences of the following nature:

- Data Acquisition (D):** Acquiring data on biological phenomena in a lab or field setting or both.
- Modeling (M):** Developing or applying mathematical models in a biological context.
- Computation (C):** Developing or applying computational tools in a biological context.
- Statistics (S):** Applying statistical testing of biological hypotheses.
- Research (R):** Investigating an open-ended question, by conducting research at the intersection of the life and mathematical sciences.

Use the table below to list courses and experiences you will complete and indicate to which category, above, each will contribute. You must have courses that

- total a minimum of 15 credit hours with 9 credit hours at or above the 300-level, including
 - *Introduction to Mathematical Biology* (currently co-listed as BIOL 345 and MATH 345; 3 credits)
 - at least two *MABI Seminar courses* (1 credit each)
- a for-credit interdisciplinary research experience.

List all courses that will contribute to a cohesive interdisciplinary experience. At most two course in the minor may be used to satisfy major requirements, but list all courses in your major that play a role in your interdisciplinary learning plan; indicate all courses counting toward your major by placing a check in the “Major” column.

Then write a statement (approximately 500–700 words) that describes how your learning plan prepares you to do interdisciplinary work. Use this opportunity to convey aspects of your plan that are not represented in the above table, such as a theme that unifies the courses and experiences (*e.g.*, bioinformatics, modeling of physiological phenomena, agricultural genetics). This statement will be used to evaluate your proposed learning plan. This statement should be attached to this form and submitted electronically to the Mathematical Biology Minor oversight committee.

Course	Cr	D	M	C	S	R	When	Major
Introduction to Math Bio	3							
MABI Seminar	1							
MABI Seminar	1							
Undergraduate Research	3							

Before submitting this plan to the Mathematical Biology Minor oversight committee, discuss your minor proposal with your academic advisor to indicate that the two of you have discussed your plan and believe it to be ready to submit.

Advisor signature: Date: