Name:

Date:

PeopleSoft ID:

Checklist for BS in Mathematical Biology

т.	UH	MATHEMATICS (27 Hours)	*EXAMPLES OF 4000-LEVEL MATH ELECTIVES	
Tr				
		MATH 2413 Calculus I	(Check Catalog for Pre-Requisites)	
		MATH 2414 Calculus II MATH 2318 Linear Algebra	MATH 4320 Introduction to Stochastic Processes MATH 4222 Introduction to Data Science and Machine Learning	
		5	MATH 4322 Introduction to Data Science and Machine Learning	
			MATH 4323 Data Science and Statistical Learning	
		MATH 3331 Intermediate Differential Equations MATH 3338 Probability	MATH 4335 Partial Differential Equations MATH 4339 Multivariate Statistics	
		, , , , , , , , , , , , , , , , , , , ,		
		MATH 3339 Statistics for the Sciences MATH 43 4000-level MATH elective	MATH 4350 Differential Geometry MATH 4351 Calculus on Manifolds	
		BIOLOGY (23 Hours)	5 I	
	-	BIOL 1106 Biology for Science Majors I Lab Fall, Sum	··· ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·	
		BIOL 1106 Biology for Science Majors I Lab Pail, Sum BIOL 1306 Biology for Science Majors I Fall, Sum	MATH 4364 Intro. to Numerical Analysis in Scientific Computing MATH 4365 Numerical Methods for Differential Equations	
		••• •		
		BIOL 1107 Biology for Science Majors II Lab Spring, Sum BIOL 1307 Biology for Science Majors II Spring, Sum	 MATH 4366 Numerical Linear Algebra MATH 4380 Mathematical Introduction to Options 	
		BIOL 3301 Mendelian and Population Genetics Fall, Spring		
		BIOL 3306 Evolutionary Biology Fall, Spring		
		BIOL 3311 Adv Mthds/Writing in Gen Lab (*WID) Fall, Spring		
		BIOL 3324 Human Physiology Fall, Spring		
		BIOL 4374 Cell Biology Fall, Spring	Tr UH <u>CHEMISTRY (12 Hours)</u>	
			CHEM 1111 Fundamentals of Chemistry I Lab	
			CHEM 1311 Fundamentals of Chemistry I	
	1	BIOCHEMISTRY (3 Hours)	CHEM 1112 Fundamentals of Chemistry II Lab	
		BCHS 3304 General Biochemistry Fall, Spring	CHEM 1312 Fundamentals of Chemistry II	
			CHEM 2123 Organic Chemistry I Lab	
			CHEM 2323 Organic Chemistry I	
		INTERDISCIPLINARY COURSES (6 Hours)		
		BIOL/MATH 4309 Mathematical Biology Spring	UNIVERSITY PHYSICS (8 Hours)	
		BIOL/MATH 4310 Biostatistics Fall	PHYS 2125 University Physics Lab I	
			PHYS 2325 University Physics I	
		CORE (Check UH Catalog or UH Core Website for Pre-Requisites)	PHYS 2126 University Physics Lab II	
			PHYS 2326 University Physics II	
Tr	UH	COMMUNICATION (6 Hours):		
		ENGL 1301 First Year Writing I	FREE ELECTIVES	
		ENGL 1302 First Year Writing II	(Additional hours to complete a total of 120 hours and 36	
			Tr UH advanced hours as needed)	
		HIST & GOVT REQUIREMENTS (12 Hours):		
		American History (3 Hours)		
		American History (3 Hours)		
		GOVT 2305 U.S. Government: Congress, President, and Court		
		GOVT 2306 U.S. and Texas Constitutions and Politics		
		ADDITIONAL CORE (12 Hours): Choose from UH Core Website		
		Language, Philosophy & Culture (3 Hours)		
		Creative Arts (3 Hours)		
		Social & Behavioral Sciences (3 Hours)		
		Satisified by BIOL 3311 Writing in the Disciplines (3 Hours)		

NSM CAPSTONE:

By virtue of the interdisciplinary nature of the program, students who complete the requirements for the B.S. degree in Mathematical Biology have satisfied the NSM Capstone.

NOTE: Students who plan to apply for medical school should include CHEM 2325 and CHEM 2125 in their free elective hours.

C-RULE: MAXIMUM of 6 hours of grades below C- allowed in UH MATH and BIOL courses

RULES YOU NEED TO KNOW:

LAST 30 hours must be exclusively completed at UH

MAXIMUM of 6 W's allowed during entire undergraduate career

6. MINIMUM of 36 advanced hours and 120 total hours to graduate

3

4

5

MINIMUM of a 2.00 GPA in cumulative, major, and minor GPA to graduate 2. PRE-REQ RULE: Must earn C- or better in pre-requisite for MATH and BIOL courses

MAXIMUM of 66 lower level transfer hours may be applied towards UH degree