# BACHELOR OF SCIENCE DEGREE MATHEMATICS

## **COORDINATE MAJOR**

### FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE DEPARTMENT OF MATHEMATICS

ı							
ı	41	THAIL	EDCITV	DEOLL	IDEN	1 E N	ITC
ı		UNIV	ERSITY	NEUU	INEIV	11=11	

#### Writing Requirement Tier I: LB 133 Tier II: Satisfied by completing the Lyman Briggs College History, Philosophy and Sociology of Science and Senior requirements listed Integrative Studies in Arts & Humanities (IAH) IAH 201-210\* 4 IAH 211-241\*† 4 Integrative Studies in Social, Behavioral & Economic Sciences (ISS) ISS 200-level course\* ISS 300-level course\*‡ 4 \*National, International, & Multicultural Diversity Students must include at least one "N" course and one "I" course in their Integrative Studies programs. A "D" course may meet either an "N" or an "I" requirement, but not both.

†Beginning Summer 2013, LB 331, 333, and 336 will fulfill the IAH "B" university requirement (IAH 211 or higher). Please consult your LBC advisor for specific details for your program.

‡Beginning Summer 2013, LB 332, 334, and 335 will fulfill the ISS 300-level university requirement. Please consult your LBC advisor for specific details for your program.

# Mathematics, Biological and Physical Sciences

Satisfied by the Lyman Briggs College requirements in Mathematics, Biological and Physical Sciences (see below).

Minimum number of credits required: 120

Minimum cumulative and major grade point average: 2.0

#### (2) LYMAN BRIGGS COLLEGE REQUIREMENTS

Biological Sciences (9 cr.)  Complete ONE of the following groups of courses (1) LB 144 & 145 (2) BS 161, 162, 171, & 172	9 10	
Chemistry (8-9 cr.)		
Complete ONE of the following groups of courses		
(1) LB 171, 171L, 172, & 172L	9	
(2) CEM 141, 142, & 161	8	
<u>Physics (</u> 8-8 cr.)		
Complete ONE of the following groups of courses		
(1) LB 273, 274	8	
(2) PHY 183 & 184	8	
Mathematics (6-7 cr.)		
Complete ONE of the following groups of courses		
(1) LB 118 & 119	8	
(2) MTH 132 & 133	7	
History, Philosophy & Sociology of Science (11-12 cr.) LB 133		
LB 330-336, 355, 490E; ENG 473A; HST 425; SOC 368	7-8	
Senior Seminar (4 cr.) LB 492		

Students may consult with a Lyman Briggs advisor regarding a possible substitution for the Lyman Briggs Senior Seminar for this major.

#### (3) MAJOR REQUIREMENTS

Complete sections A through H

МТН	A. Complete 496	e the following course (3 cr.) Capstone in Mathematics	3	
LB MTH MTH	220 234	e ONE of the following courses (3-4 cr.) Calculus III Multivariable Calculus Honors Multivariable Calculus	4 4 3	
MTH	equence One (7 299 309	Transitions Linear Algebra	4	
(2) S MTH	equence Two (3 317H	s cr.) Advanced Linear Algebra	3	
	330 340 347H 432 dents in teache	e ONE of the following courses (3 cr.) Higher Geometry Ordinary Differential Equations I Advanced Ordinary Differential Equations Axiomatic Geometry r education must take MTH 330 or 432. cher education must take MTH 340 or 347H	3 3 3 3	
MTH MTH	equence One (6 310 411	e ONE of the following sequences cr.) Abstract Algebra I and Number Theory Abstract Algebra II IH, or 481 may be substituted for MTH 411	3 3*	
(2) S MTH MTH	equence Two (6 418H 419H	cr.) Honors Algebra I Honors Algebra II	3	
MTH MTH +M1	equence One (6 320 421 FH 327H may be	Analysis I Analysis II e substituted for MTH 320 442 may be substituted for MTH 421	3† 3*	
G. Additional Math courses as needed to reach a total of 27 credits at the 300-400 level. Course approval needed from Mathematics department. At least 4 courses must be 400 level. (XX cr.)				
*Ma *Tea	### y not use MTH y only use one acher educatio F 430 or STT 4	Mathematics (excludes MTH 415, 424, 443) 415, 424, & 443 for this requirement of MTH 309, 314, & 317H n majors must take STT 430. 41 may be used as <b>one of the 300 leve</b>	XX el	

H. Foreign Language Requirement Complete ALL of the following courses (21 cr.)

FL	101	Foreign Language I	3-4
FL	102	Foreign Language II	3-4

Foreign Language 1st year equivalency may be met through placement testing.

TE professional education sequence may be substituted for the foreign language proficiency requirement.

IMPORTANT: These guidelines are presented for planning purposes only. Students MUST consult a department advisor for reliable and exact determination of individual's course requirements.