

BACHELOR OF SCIENCE DEGREE ACTUARIAL SCIENCE

COORDINATE MAJOR

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE DEPARTMENT OF MATHEMATICS ADVISOR

(1) UNIVERSITY REQUIREMENTS

Writing Requirement

Tier I: LB 133 4
Tier II: Satisfied by completing the Lyman Briggs College History, Philosophy and Sociology of Science and Senior requirements listed below.

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* 4
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.

†Summer 2013 to Summer 2017: LB 331, 333, and 336 will fulfill the IAH "B" university requirement (IAH 211 or higher). Please consult your LBC Academic Advisor for specific details for your program.

‡Summer 2013 to Summer 2017; LB 332, 334, and 335 will fulfill the ISS 300-level university requirement. Please consult your LBC Academic Advisor for specific details for your program.

Beginning Fall 2017; LB 321a, 322a, 323a, 324a, 325a, 326a and 327a will fulfill the IAH university requirement (IAH 211 or higher).

@ Beginning Fall 2017; LB 321b, 322b, 323b, 324b, 325b, 326b and 327b will fulfill the ISS 300-level university requirement.

Please contact your LBC Academic Advisor for specific details for your program. If you fulfilled the LB 331, 332, 333, 334, 335 or 336 requirement you do not need the new Fall 2017 courses.

Mathematics, Biological and Physical Sciences

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

(2) LYMAN BRIGGS COLLEGE REQUIREMENTS

Biological Sciences (9 cr.)

Complete ONE of the following groups of courses
(1) LB 144 & 145 9
(2) BS 161, 162, 171 & 172 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
(3) CEM 151, 152, & 161 8

Physics (8-10 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 4
LB 321-327, 330-336, 355, 490E; ENG 473A; HST 425; SOC 368 7-8

Senior Seminar (4 cr.)

LB 492* 4

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

Minimum number of credits required: 120

Minimum cumulative and major grade point average: 2.0

(3) MAJOR REQUIREMENTS

A. Complete ONE of the following courses (3 or 4 cr.)			
LB	220	Calculus III	4
MTH	234	Multivariable Calculus	4
MTH	254H	Honors Multivariable Calculus	3
B. Complete ONE of the following courses (3 cr.)			
MTH	235	Differential Equations	3
MTH	340	Ordinary Differential Equations I	3
C. Complete ONE of the following courses (1 cr.)			
MTH	490	Directed Studies	1
MTH	491B	Teamwork Experience	1
D. Complete ALL of the following courses (21 cr.)			
MTH	309	Linear Algebra I	3
MTH	360	Theory of Mathematical Interest	3
MTH	361	Financial Mathematics for Actuaries	3
MTH	458	Financial Mathematics for Actuaries	3
STT	441	Probability & Statistics I: Probability	3
STT	455	Actuarial Models I	3
STT	456	Actuarial Models II	3
STT	459	Construction and Evaluation of Actuarial Models	3
E. Complete ONE of the following courses (3 cr.)			
MTH	457	Introduction to Financial Mathematics	3
STT	442	Probability & Statistics II: Statistics	3
F. Complete ONE of the following courses (3 cr.)			
MTH	491A	Actuarial Internship	3
MTH	496	Capstone in Mathematics	3
G. Complete ALL of the following courses (18 cr.)			
ACC	230	Survey of Accounting Concepts	3
EC	201	Introduction to Microeconomics	3
EC	202	Introduction to Macroeconomics	3
FI	311	Financial Management	3
FI	321	Theory of Investments	3
H. Complete ONE of the following courses (3 or 4 cr.)			
CSE	131	Technical Computing and Problem Solving	3
CSE	231	Introduction to Programming I	4

IMPORTANT: This advising guide is presented for planning purposes only. It is the student's responsibility for knowing and following University, college and departmental requirements as stated in the Academic Programs Catalog.

The Academic Advisors will provide information and suggest others based on expressed interests. It is the student's responsibility for enrolling in classes and selecting the number of credits per semester for success. Appointments are made using the Student Success Dashboard.

LIMITED ENROLLMENT MAJOR. PLEASE CONTACT THE MATHEMATICS ADVISOR FOR MORE INFORMATION.