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
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

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

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.