BACHELOR OF SCIENCE DEGREE
EARTH SCIENCE

FOR ADDITIONAL INFORMATION, PLEASE CONTACT A LYMAN BRIGGS ACADEMIC 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 cr.)
Complete ONE of the following groups of courses
(1)  LB 273, 274  8
(2)  PHY 183 & 184  8
(3)  PHY 231, 232, 251, & 252  8

Mathematics (6-7 cr.)
Complete ONE of the following groups of courses
(1)  LB 118 & 119  8
(2)  LB 118 & STT 231  7
(3)  MTH 132 & 133  7

History, Philosophy & Sociology of Science (11-12 cr.)
LB 133
LB 321-326, 330-336, 355, 490E; ENG 473A; HST 425; SOC 368  7-8

Senior Seminar (4 cr.)
LB 492  4

Minimum number of credits required: 120
Minimum cumulative and major grade point average: 2.0
(3) MAJOR REQUIREMENTS

This major requires a minimum of 27 credits approved by the student's faculty advisor.

At least 14 credits must be at the 300-400 level.

At least 8 credits must be in earth science courses outside the Department of Earth and Environmental Sciences.

Complete at least ONE course in each of the following 5 Earth Science areas (15 to 22 cr.)

(1.) Astronomy and Astrophysics
AST 207 The Science of Astronomy 3

(2.) Geology of the Solid Earth
Complete at least one of the following courses (3-6 cr.)
GLG 201 The Dynamic Earth 4
GLG 321 Mineralogy and Geochemistry 4
GLG 351 Structural Geology and Tectonics 4
GLG 361 Petrology (W) 4
GLG 401 Plate Tectonics (W) 4
GLG 481 Reservoirs and Aquifers 3
GLG 491 Field Geology Summer Camp (W) 6

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.

(3.) Paleobiology
Complete at least one of the following courses (3-4 cr.)
PLB 335 Plants Through Time 3
GLG 431 Sedimentology and Stratigraphy (W) 4
GLG 433 Vertebrate Paleontology 4
GLG 434 Evolutionary Paleobiology 4

(4.) Environmental Geosciences and Meteorology
Complete at least one of the following courses (3-4 cr.)
GEO 203 Introduction to Meteorology 3
GEO 401 Geography of Plants of North America 3
GEO 402 Agricultural Climatology 3
GEO 405 Weather Analysis and Forecasting 4
GLG 421 Environmental Geochemistry 4

(5.) Geomorphology
Complete at least one of the following courses (3-4 cr.)
CSS 470 Soil Resources 3
GEO 206 & 206L Physical Geography and Laboratory 4
GEO 407 Regional Geomorphology of the US 3
GEO 408 Soil Geomorphology Field Study 4

Geography 206 and 206L, combined, may be substituted for one of the courses listed above.