

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 4
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
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(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

(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.

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](#).