

BACHELOR OF SCIENCE DEGREE EARTH SCIENCE

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE [LYMAN BRIGGS ADVISING OFFICE](#)

(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.

†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 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 330-336, 355, 490E; ENG 473A; HST 425; SOC 368 7-8

Senior Seminar (4 cr.)

LB 492 4

(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 Geological Sciences.

Complete the following course (3 cr.)

AST	207	The Science of Astronomy	3
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Complete at least ONE course in each of the following 4 Earth Science areas (15 to 22 cr.)

(1) 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	361	Petrology	4
GLG	401	Global Tectonics and Earth Structure	4
GLG	481	Reservoirs and Aquifers	3
GLG	491	Field Geology Summer Camp	6

(2) Paleobiology

Complete at least one of the following courses (3-4 cr.)

PLB	335	Plants Through Time	3
GLG	431	Sedimentology and Stratigraphy	4
GLG	433	Vertebrate Paleontology	4
GLG	434	Evolutionary Paleobiology	4

(3) 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

(4) 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

IMPORTANT: These guidelines are presented for planning purposes only. Students MUST consult a department advisor for confirmation of major requirements.