

BACHELOR OF SCIENCE DEGREE GEOLOGICAL SCIENCES

COORDINATE MAJOR

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE [DEPARTMENT OF GEOLOGICAL SCIENCES](#)

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 (8-10 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) 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

Complete ALL of the following courses (34 cr.)

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|-----|-----|--|----|
| GLG | 201 | The Dynamic Earth | 4 |
| GLG | 304 | Physical and Biological History of Earth | 4 |
| GLG | 321 | Mineralogy and Geochemistry | 4 |
| GLG | 361 | Petrology (W) | 4 |
| GLG | 401 | Plate Tectonics | 4 |
| GLG | 431 | Sedimentology and Stratigraphy (W) | 4 |
| GLG | 491 | Field Geology – Summer Camp (W) | 6 |
| LB | 220 | Calculus III | 4* |

*MTH 234 or one course of at least 3 credits in statistics and probability can be substituted for LB 220. Consult an advisor for more information.

Completion of Geological Sciences 491 fulfills the department's capstone course requirement.

Complete TEN Additional GLG Credits 300 Level and above (10 cr.)

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|-----|-----|---|----|
| GLG | ### | 300-400 Level GLG Credits (To Be Approved by Advisor in the Geology Department) | 10 |
|-----|-----|---|----|

GEOPHYSICS CONCENTRATION (22 cr.)

A concentration in geophysics is also available. Students must complete all of the following courses. Courses that are used to satisfy the requirements for the concentration may also be used to satisfy the requirements for the Bachelor of Science degree in Geological Sciences. The concentration will be noted on the student's transcript.

Complete ALL of the following courses (22 cr.)

| | | | |
|-----|-----|---------------------------------|----|
| LB | 220 | Calculus III | 4* |
| MTH | 235 | Differential Equations | 3 |
| LB | 273 | Calculus Based Physics I | 4† |
| LB | 274 | Calculus Based Physics II | 4† |
| GLG | 470 | Principles of Modern Geophysics | 3 |
| GLG | 471 | Applied Geophysics | 4 |

* MTH 234 can be substituted for LB 220

†PHY 183 and 184 can be substituted for LB 273 and 274, respectively

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