BACHELOR OF SCIENCE DEGREE
HUMAN BIOLOGY
COORDINATE MAJOR

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE COLLEGE OF NATURAL SCIENCE ADVISING OFFICE

(1) UNIVERSITY REQUIREMENTS

Writing Requirement
Tier I: LB 133
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 (9 cr.)
Complete ONE of the following groups of courses
(1) LB 171, 171L, 172, & 172L 9
(2) CEM 141, 142, 161, & 162 9
(3) CEM 151, 152, 161, & 162 9

Physics (8-10 cr.)
Complete ONE of the following groups of courses
(1) LB 273, 274 8
(2) PHY 183, 184, 191, & 192 10
(3) PHY 231, 232, 251, & 252 8

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

History, Philosophy & Sociology of Science (11-12 cr.)
LB 133 4
LB 321-327, 330-337, 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

Complete ALL of the following courses (14 cr.)

CEM 251 Organic Chemistry I 3
CEM 252 Organic Chemistry II 3
CEM 255 Organic Chemistry Laboratory 2
NSC 495 Capstone in Human Biology\(^\text{*}\) 2
IBIO 341 Fundamental Genetics 4

\(^\text{*}\)Satisfied by LB 492

Complete ONE of the following options (4-8 cr.)

PSL 310 Physiology for Pre-Health Professionals 4
or
PSL 431 Human Physiology I 4
PSL 432 Human Physiology II 4

Complete ONE of the following options (4-6 cr.)

BMB 401 Comprehensive Biochemistry 4
or
BMB 461 Advanced Biochemistry I 3
BMB 462 Advanced Biochemistry II 3

Complete ONE of the following courses (3 cr.)

ANP 441 Osteology & Forensic Anthropology 4
BLD 204 Mechanisms of Disease 3
BLD 324 Fundamentals of Hematology, Hemostasis, & Urinalysis 3
BLD 416 Clinical Chemistry II: Pathophysiology & Body Fluid Analysis 4
BLD 434 Clinical Immunology 3
EPI 390 Disease & Society 4
KIN 310 Physiology Bases of Physical Activity 3
KIN 330 Biomechanics of Physical Activity 3
MMG 301 Introductory Microbiology 3
MMG 302 Introductory Microbiology Laboratory 1
MMG 404 Human Genetics 3
MMG 409 Eukaryotic Cell Biology 3
MMG 413 Virology 3
MMG 451 Immunology 3

Complete at least 12 credits from the following courses (12 cr.)

ANP 350 Human Gross Anatomy & Structural Biology 3
IBIO 320 Developmental Biology 4
IBIO 328 Comparative Anatomy & Biology of Vertebrates 4

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.
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Planning Guide

Major Requirements to be completed within Year 1 and 2:
Calculus and Statistics (LB 118 & STT 231 OR LB 119)
Chemistry (LB 171/171L & LB 172/LB 172L)
Biology (LB 144 & 145)
Organic Chemistry (CEM 251, 252, & CEM 255)
Physics (LB 273 & 274)

Major Requirements to be completed within Year 3 and 4:
Anatomy (ANTR 350 OR IBIO 320 OR IBIO 328)
Physiology (PSL 310 OR PSL 431 & 432)
Biochemistry (BMB 401 OR BMB 461 & 462)
Immunology (MMG 451 OR BLD 434 OR MMG 413 OR MMG 409)
Genetics (IBIO 341)
Human Biology Electives (12 credits from “Bio Selective” list)

University/College Requirements to be completed prior to graduation:
Tier I Writing (LB 133)
Integrative Studies in Social Science (ISS 200-level & ISS 300-level OR LB 32XB)
Integrative Studies in Arts & Humanities (IAH 201-210 & IAH 211+ OR LB 32XA)
History, Philosophy, Sociology of Science (2 upper-level HPS courses**)
Senior Seminar/Capstone (LB 492)

**Can double as ISS 3XX and IAH 211+

IMPORTANT: This sample plan is to generate ideas for scheduling your courses and is based on a 15-credit-per-semester model for 4-year graduation. Each student’s plan will be different and based on individual needs, careers goals, math placement, and other factors. The minimum number of credits for graduation is 120.