

BACHELOR OF SCIENCE DEGREE BIOLOGICAL SCIENCE-INTERDEPARTMENTAL

COORDINATE MAJOR

(RECOMMENDED FOR SECONDARY EDUCATION ONLY)

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE [COLLEGE OF NATURAL SCIENCE](#)

(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, & 162 9
(3) CEM 151, 152, 161 & 162 9

Physics (8 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*

*Students can substitute PHY 191 & 192 for 251 & 252

Mathematics (6-7 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 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 (30 cr.)

CEM	251	Organic Chemistry I	3
CEM	252	Organic Chemistry II	3
CEM	255	Organic Chemistry Lab I	2
CEM	262	Quantitative Analysis	3
PSL	250	Introductory Physiology	4
ISE	401	Science Laboratories for Secondary Schools (W)	4
IBIO	341	Fundamental Genetics	4
IBIO	355	Ecology	3
IBIO	355L	Ecology Laboratory	1
IBIO	445	Evolution (W)	3

Complete ONE of the following courses (3 or 4 cr.)

PLB	301	Introductory Plant Physiology	3
PLB	405	Plant Pathology	3
PLB	418	Plant Systematics	3
PLB	434	Plant Structure and Function	4

Complete ONE of the following sets of courses (8 cr.)

(1) Set One

Complete TWO of the following courses (8 cr.)

BMB	401	Comprehensive Biochemistry	4
IBIO	408	Histology	4
IBIO	425	Cells and Development (W)	4

(2) Set Two

Complete ALL of the following courses (4 cr.)

MMG	301	Microbiology	3
MMG	302	Introductory Lab for General and Allied Health Microbiology	1

Complete ONE of the following courses (4 cr.)

BMB	401	Basic Biochemistry	4
IBIO	408	Histology	4
IBIO	425	Cells and Development	4

(4) ADDITIONAL REQUIREMENTS FOR TEACHER CERTIFICATION

Complete ALL of the following courses (21 cr.)

TE	150	Reflections on Learning	3
TE	250	Human Diversity, Power, and Opportunity in Social Institutions	3
TE	302	Learners and Learning in Context (W)	4
TE	407	Teaching of Subject Matter to Diverse Learners (W)	5
TE	408	Crafting Teaching Practice (W)	6

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

Students wishing to complete requirements for Teacher certification must obtain formal admission into the College of Education.