

**BACHELOR OF SCIENCE DEGREE
BIOCHEMISTRY & MOLECULAR BIOLOGY
COORDINATE MAJOR
FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE
BIOCHEMISTRY & MOLECULAR BIOLOGY ADVISING OFFICE**

(1) UNIVERSITY REQUIREMENTSWriting 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.

(2) LYMAN BRIGGS COLLEGE REQUIREMENTSBiological 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 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

*Biology, Chemistry, Physics and Mathematics courses also meet graduation requirements for major

Minimum number of credits required: 120

Minimum cumulative and major grade point average: 2.0

(3) MAJOR REQUIREMENTS

Complete ALL of the following courses (17 cr.)

CEM	262	Quantitative Analysis	3
CEM	355	Organic Chemistry Lab I	2
CEM	356	Organic Chemistry Laboratory II	2

Plus TEN additional credits in approved advanced Biology courses at the 300-400 level.

Choose ONE of the following groups of courses (6 cr.)

CEM	251	Organic Chemistry I	3
CEM	252	Organic Chemistry II	3
OR			
CEM	351	Organic Chemistry I	3
CEM	352	Organic Chemistry II	3

Choose ONE course from each of the following groups of courses (6 cr.)

Group A

CEM	383	Introductory Physical Chemistry I	3
CEM	484	Molecular Thermodynamics	3

Group B

CEM	384	Introductory Physics II	3
CEM	483	Quantum Chemistry	3

Complete ALL of the following courses (13 cr.)

BMB	101	Frontiers in Biochemistry	1
BMB	461	Advanced Biochemistry I	3
BMB	462	Advanced Biochemistry II	3
BMB	471	Advanced Biochemistry Laboratory	3
BMB	472	Advanced Biochemistry Laboratory	3

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](#).