



LYMAN BRIGGS COLLEGE

BACHELOR OF SCIENCE DEGREE COMPUTER SCIENCE

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

Students must meet admissions criteria as set by the CSE department to take courses in this curriculum.
Please see an advisor in the Computer Science and Engineering Department

(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.

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

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

*Physics and Mathematics courses also meet graduation requirements for major

(3) MAJOR REQUIREMENTS

Complete ALL of the following courses (28 cr.)

CSE	231	Introduction to Programming I	4
CSE	232	Introduction to Programming II	4
CSE	260	Discrete Structures in Computer Science	4
CSE	320	Computer Organization and Architecture	3
CSE	331	Algorithms & Data Structures	3
CSE	410	Operating Systems	3
CSE	460	Compatibility and Formal Language Theory	3
LB	220	Calculus III	4

Complete a minimum of TWO of the following courses (6 cr.)

CSE	420	Computer Architecture	3
CSE	422	Computer Networks	3
CSE	435	Software Engineering	3
CSE	440	Introduction to Artificial Intelligence	3
CSE	450	Translation of Programming Languages	3
CSE	452	Organization of Programming Languages	3
CSE	472	Computer Graphics	3
CSE	480	Database Systems	3

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