

BACHELOR OF SCIENCE DEGREE BIOMEDICAL LABORATORY SCIENCE (Formerly MEDICAL TECHNOLOGY)

COORDINATE MAJOR

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE [BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM](#)

(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 (9 cr.)

Complete ONE of the following groups of courses
(1) LB 171, 171L, 172, & 172L 9
(2) CEM 141, 161, & 162 6*

Physics (8 cr.)

Complete ONE of the following groups of courses
(1) LB 273, 274 8
(2) PHY 231, 232, 251, 252 8

Mathematics (6-8 cr.)

Complete ONE of the following groups of courses
(1) LB 118 & STT 231 7
(2) 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

*LBC Chemistry requirement met with completion of CEM 251

(3) MAJOR REQUIREMENTS

Complete ALL of the following courses (9 cr.)			
CEM	251	Organic Chemistry I	3
CEM	252	Organic Chemistry II	3
MMG	463	Medical Microbiology	3
Complete ONE of the following courses (3 cr.)			
MMG	201	Fundamentals of Microbiology	3
		Or	
MMG	301	Introductory Microbiology	3
Complete ONE of the following options (4-6 cr.)			
BMB	401	Basic Biochemistry	4
		Or	
BMB	461	Advanced Biochemistry I	3
BMB	462	Advanced Biochemistry II	3
Complete ONE of the following options (4-6 cr.)			
PSL	250	Introductory Physiology	4
		Or	
PSL	310	Physiology for Pre-Health Professionals	4
		Or	
PSL	431	Human Physiology I	4
PSL	432	Human Physiology II	4
Complete ALL of the following courses (33 cr.)			
BLD	204	Mechanisms of Disease	3
BLD	213	Application of Clinical Laboratory Principles	2
BLD	220	Preparing for a Health Professions Career	1
BLD	324	Fundamentals of Hematology, Hemostasis, & Urinalysis	3
BLD	414	Clinical Chemistry Analysis & Practice	3
BLD	416	Clinical Chemistry	4
BLD	424	Advanced Hematology, Hemostasis, & Urinalysis	2
BLD	430	Molecular Laboratory Diagnostics	2
BLD	434	Clinical Immunology	3
BLD	435	Transfusion & Transplantation Medicine	3
BLD	450	Eukaryotic Pathogens	3
BLD	455	Integrating Clinical Laboratory Science Discipline (W)	2

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