BACHELOR OF SCIENCE DEGREE CHEMISTRY

COORDINATE MAJOR

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE DEPARTMENT OF CHEMISTRY ADVISING OFFICE

(1) UNIVERSITY REQUIREMENTS		(2)	LYMAN BRIGGS COLLEGE REQUIREMENTS	
Writing Requirement		<u>Biol</u>	ogical Sciences (9 cr.)	
Tier I: LB 133	4	Com	plete ONE of the following groups of courses	
Tier II: Satisfied by completing the Lyman Briggs College H	History,	(1)	LB 144 & 145	9
Philosophy and Sociology of Science and Senior requirements listed below.		(2)	BS 161, 162, 171, & 172	9
		Chei	<u>mistry (</u> 8-9 cr.)	
Integrative Studies in Arts & Humanities (IAH)		Com	plete ONE of the following groups of courses	
IAH 201-210*	4	(1)	LB 171, 171L, 172, & 172L	9
IAH 211-241*†#	4	(2)	CEM 151, 152, 161 & 162	9
Integrative Studies in Social, Behavioral & Economic Scien	ices (ISS)	<u>Phys</u>	<u>sics (</u> 8 cr.)	
ISS 200-level course*	4	Com	plete ONE of the following groups of courses	
ISS 300-level course*‡@	4	(1)	LB 273, 274*	8
		(2)	PHY 183, 184, 191, & 192*	10
*National, International, & Multicultural Diversity				
Students must include at least one "N" course and one "I" course			<u>hematics (</u> 6-7 cr.)	
in their Integrative Studies programs. A "D" course may n	neet	Com	plete ONE of the following groups of courses	
either an "N" or an "I" requirement, but not both.		(1)	LB 118 & 119*	8
		(2)	MTH 132 & 133*	7
†Summer 2013 to Summer 2017: LB 331, 333, and 336 w	ill fulfill			
the IAH "B" university requirement (IAH 211 or higher). P	lease	Hist	ory, Philosophy & Sociology of Science (11-12 cr.)	
consult your LBC Academic Advisor for specific details for	your	LB 1	33	4
program.		LB 3	21-327, 330-336, 355, 490E; ENG 473A; HST 425; SOC 36	8 7-8
‡Summer 2013 to Summer 2017; LB 332, 334, and 335 w	ill fulfill	<u>Seni</u>	or Seminar (4 cr.)	
the ISS 300-level university requirement. Please consult y Academic Advisor for specific details for your program.	our LBC	LB 4	92	4
reducting ratios for specific details for your programm		*Ph	ysics and Mathematics courses also meet graduation	
# Beginning Fall 2017; LB 321a, 322a, 323a, 324a, 325a, 3	26a and		uirements for major	
327a will fulfill the IAH university requirement (IAH 211 o				
@ Beginning Fall 2017; LB 321b, 322b, 323b, 324b, 325b,	326b			
and 327b will fulfill the ISS 300-level university requirement	ent.	Min	imum number of credits required:	120
Please contact your LBC Academic Advisor for specific de your program. If you fulfilled the LB 331, 332, 333, 334, 3		Min	imum cumulative and major grade point average:	2.0

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336 requirement you do not need the new Fall 2017 courses.

Mathematics, Biological and Physical Sciences (see next section).

<u>Mathematics, Biological and Physical Sciences</u>
Satisfied by the Lyman Briggs College requirements in

(3) MAJOR REQUIREMENTS

Comple	ete ALL of the	following courses (43 cr.)			
LB	220	Calculus III	4*		
MTH	235	Differential Equations	3		
CEM	262	Quantitative Analysis	3†		
CEM	351	Organic Chemistry I	3		
CEM	352	Organic Chemistry II	3		
CEM	355	Organic Chemistry Lab I	2		
CEM	356	Organic Chemistry Lab II	2		
CEM	395	Analytical/Physical Chemistry Lab	2		
CEM	411	Inorganic Chemistry	4		
CEM	415	Advanced Synthesis Lab	3		
CEM	434	Advanced Analytical Chemistry	3		
CEM	435	Analytical Chemistry Lab	2		
CEM	483	Quantum Chemistry	3		
CEM	484	Molecular Thermodynamics	3		
CEM	495	Molecular Spectroscopy	2		
*MTH 234 can be substituted for LB 220					
†If taking both CEM 185H and 186H, then do not need to take					
CEM 26	52				
Choose ONE option below (4-6 cr.)					
(1) Complete the following course (4 cr.)					
BMB	401	Basic Biochemistry	4		
(2) Complete ALL of the following courses (6 cr.)					
BMB	461	Advanced Biochemistry I	3		
BMB	462	Advanced Biochemistry II	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 <u>Academic Programs Catalog</u>.

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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