

# BACHELOR OF SCIENCE DEGREE NUTRITIONAL SCIENCES COORDINATE MAJOR

**FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE DEPARTMENT OF FOOD SCIENCE & HUMAN NUTRITION**

### **(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, 142, 161, & 162 9  
(3) CEM 151, 152, 161, & 162 9

Physics (8-10 cr.)

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

Mathematics (6-8 cr.)

Complete ONE of the following groups of courses  
(1) LB 118 & 119 8  
(2) LB 118 & STT 231 7  
(3) MTH 132 & 133 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 (24 cr.)**

COM	100	Human Communication	3
CSS	124	Introduction to Sustainable Agricultural And Food Systems	2
FSC	211	Principles of Food Science	3
FSC	455	Food and Nutrition Laboratory	3
HNF	150	Introduction to Human Nutrition	3
HNF	250	Contemporary Issues in Human Nutrition	2
HNF	350	Advanced Human Nutrition And Metabolism	4
HNF	450	Nutrition in the Prevention and Treatment of Disease	4

Complete one of the following concentrations

**Biomedical and Molecular Nutrition (25 to 33 cr.)**

Complete one of the following: Group A or Group B (4 to 6 cr.)

**Group A**

BMB	401	Comprehensive Biochemistry	4
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**Group B**

BMB	461	Advanced Biochemistry I	4
BMB	462	Advance Biochemistry II	4

Complete all of the following courses (11 cr.)

CEM	251	Organic Chemistry I	3
CEM	255	Organic Chemistry II	3
CEM	255	Organic Chemistry Laboratory	2
HNF	310	Nutrition in Medicine for Pre-health Professionals	3

Complete one of the following: Group A or Group B (4 to 8 cr.)

<b>Group A</b>			
PSL	310	Physiology for Pre-Health Professionals	4
<b>Group B</b>			
PSL	431	Human Physiology I	4
PSL	432	Human Physiology II	4

Complete two of the following courses (6 to 8 cr.)

ANTR	350	Human Gross Anatomy for Pre-Health Professionals	3
CEM	262	Quantitative Analysis	3
IBIO	341	Fundamental Genetics	4

IBIO	408	Histology	4
MMG	301	Introductory Microbiology	3
MMG	409	Eukaryotic Cell Biology	3
PHM	350	Introductory Human Pharmacology	3
PSY	320	Health Psychology	3

**Global Nutrition and Health (38 to 43 cr.)**

Complete all of the following courses (20 cr.)

CSUS	215	International Development and Sustainability	3
HNF	377	Applied Community Nutrition	4
HNF	406	Global Foods and Culture	3
HNF	453	Nutrition and Human Development	3
PSL	310	Physiology for Pre-Health Professionals	4
SOC	362	Developing Societies	3

Complete one of the following: Group A or Group B (4 to 6 cr.)

**Group A**

CEM	143	Survey of Organic Chemistry	4
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**Group B**

CEM	251	Organic Chemistry I	3
CEM	252	Organic Chemistry II	3

Complete one of the following courses (2 to 4 cr.)

AL	200	Cultural Differences and Study Abroad	3
ANP	200	Navigating Another Culture	2
ANP	370	Culture, Health, and Illness	3
COM	391	Topics in Verbal, Intercultural, or Gender Communication	4
GSAH	230	Values, Experience, and Difference in Global Contexts	3

Complete one of the following courses (4 cr.)

BMB	200	Introduction to Biochemistry	4
BMB	401	Comprehensive Biochemistry	4

Complete one of the following courses (3 cr.)

CSUS	429	Program Evaluation for Community Sustainability	3
CSUS	433	Grant Writing and Fund Development (W)	3

Complete one of the following courses (3 to 4 cr.)

Complete two of the following courses (6 cr.)

ANP	270	Women and Health	3
CSS	431	International Agricultural Systems	3
CSUS	463	Food Fight: Politics of Food	3
EEP	260	World Food Population and Poverty	3
FOR	466	Natural Resource Policy	3
GEO	435	Geography of Health and Disease	3
PHL	453	Ethical Issues in Global Public	3
SOC	161	International Dev. and Change	3

**Public Health Nutrition (41 to 44 cr.)**

Complete all of the following courses (24 cr.)

HM 101	Introduction to Public Health	3
HNF 377	Applied Community Nutrition	4
HNF 385	Public Issues in Health and Nutrition	3
HNF 485	Advanced Research Methods in Nutrition and Health	4
PSL 310	Physiology for Pre-Health Professionals	4
STT 421	Statistics I	3
STT 422	Statistics II	3

Complete one of the following groups (4 to 6 cr.)

	Group A	
CEM 143	Survey of Organic Chemistry	4
	Group B	
CEM 251	Organic Chemistry II	3
CEM 252	Organic Chemistry II	3

Complete one of the following courses (4 cr.)

BMB 200	Introduction to Biochemistry	4
BMB 401	Comprehensive Biochemistry	4

Complete one of the following course (3 cr.)

CSUS 429	Program Evaluation for Community Sustainability	3
CSUS 433	Grant Writing and Fund Development (W)	3

Complete two of the following courses (6 to 7 cr.)

ANP 270	Women and Health	3
ANP 370	Culture, Health, and Illness	3
ANP 443	Human Adaptability	3
EPI 240	Epidemiological Investigations in Nutrition and Health	4
EPI 390	Disease in Society	3
GEO 435	Geography of Health and Disease	3
HNF 453	Nutrition and Human Development	3
PHL 453	Ethical Issues in Global Public Health	3
PLS 313	American Public Policy	3
SOC 451	Dynamics of Population	3
SOC 461	Basic Demographic Techniques and Applications	3
SOC 475	Health and Society	3

**Completion of a minimum of 3 credits in Experiential Learning. Students must consult with their academic advisor for specific details on this requirement. Completion of this requirement may be fulfilled by enrollment in ANR 475, HNF 490 or HNF 490H or any approved study abroad, service, or research experience.**

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