B.Sc. (Nutr. Sc.) - NUTRITION MAJOR

120 credits: 30 freshman + 63 credits required + 12 credits complementary + 15 credits electives

NAME: **ID NUMBER:**

Entered Program From: **_____credits given on entrance**

COMPL	GRADE	FRESHMAN 1 FALL	14.5 CREDITS REQUIRED	EQUIVALENCIES	
☐		AEBI 120	General Biology (3)	BIOL 111 or 101-NYA/OOUK with lab	
☐		AECH 110	General Chemistry 1 (4)	CHEM 110 or 202-NYA/OOUL with lab	
☐		AEMA 101	Calculus 1 (3)	MATH 139 or MATH 140 or 201-NYA/OOUN	
☐		AEPH 112	Introductory Physics 1 (4)	PHYS 101 or 203-NYA/OOUR with lab	
☐		AGRI 195	Freshman Seminar 1 (0.5)		
		FRESHMAN 2 WINTER	**15.5 CREDITS REQUIRED**		
☐		AEBI 122	Cell Biology (3)	BIOL 112 or OOXU	
☐		AEMA 102	Calculus 2 (4)	MATH 141 or 201-NYB/OOUP	
☐		AEPH 114	Introductory Physics 2 (4)	PHYS 102 or 203-NYB + 203-NYC/OOUS + OOUT	
☐		FDSC 230	Organic Chemistry (4)	CHEM 212 or OOXV	
☐		AGRI 196	Freshman Seminar 2 (0.5)		
		U1 FALL (TERM 1)	**13 CREDITS REQUIRED**	**PREREQUISITES**	**COREQUISITES**
☐		FDSC 200	Introduction to Food Science (3)		
☐		LSCI 211	Biochemistry 1 (3)	FDSC 230 (or as coreq)	
☐		NUTR 207	Nutrition and Health (3)	AEBI 122 or equ, FDSC 230 (or as coreq)	
☐		NUTR 214	Food Fundamentals (4)	FDSC 230 (or as coreq)	LSCI 211, NUTR 207
		U1 WINTER (TERM 2)	**12 CREDITS REQUIRED**		
☐		ANSC 234	Biochemistry 2 (3)	LSCI 211	
☐		FDSC 251	Food Chemistry 1 (3)	LSCI 211	
☐		LSCI 230	Introductory Microbiology (3)	-	
☐		NUTR 322	Appl. Sc. Communication (3)	Completion of 15 credits in a B.Sc. prog.	
		U2 FALL (TERM 3)	**12 CREDITS REQUIRED**		
☐		ANSC 323	Mammalian Physiology (3)	LSCI 204 or ANSC 234	
☐		FDSC 305	Food Chemistry 2 (3)	FDSC 251	
☐		LSCI 204	Genetics (3)	-	
☐		NUTR 307	Metabolism and Human Nutrition (3)	ANSC 234	ANSC 323 or NUTR 207
		U2 WINTER (TERM 4)	**13 CREDITS REQUIRED**		
☐		AEMA 310	Statistical Methods 1 (3)		
☐		ANSC 424	Metabolic Endocrinology (3)	ANSC 323	
☐		NUTR 337	Nutrition Through Life (3)	ANSC 234, NUTR 307	
☐		NUTR 344	Clinical Nutrition 1 (4)	ANSC 234, ANSC 323, NUTR 307	NUTR 337, ANSC 424
		U3 FALL (TERM 5)	**7 CREDITS REQUIRED**		
☐		NUTR 401	Emerging Issues in Nutrition (1)	NUTR 344	NUTR 450
☐		NUTR 450	Research Methods Hum. Nutrition (3)	AEMA 310 and NUTR 307	
☐		NUTR 512	Herbs, Foods and Phytochemicals (3)	LSCI 211 or BIOL 201 or BIOC 212	
		COMMON COMPLEMENTARY COURSES: ALL CONCENTRATIONS		**(At least 6 credits from the following courses)**	
☐		ANSC 433	Animal Nutrition & Metabolism (3) W	ANSC 234	
☐		ANSC 560	Biology of Lactation (3) F		
☐		FDSC 537	Nutraceutical Chemistry (3)	LSCI 211 or permission	
☐		FDSC 545	Advances in Food Microbiology (3) W	MICR 230 or LSCI 230 or permission	
☐		NUTR 501	Nutrition in Developing Countries (3) F	Permission required	
☐		NUTR 503	Nutrition and Exercise (3) F	ANSC 234, ANSC 323, NUTR 207	
☐		NUTR 505	Public Health Nutrition (3) F	NUTR 337	
☐		NUTR 507	Advanced Human Biochemistry (3) W		
☐		NUTR 511	Nutrition and Behaviour (3) F	NUTR 337, NUTR 344	
☐		NUTR 537	Advanced Human Metabolism (3) F		
☐		NUTR 545	Clinical Nutrition 2 (4) F	NUTR 337, NUTR 344 and ANSC 424	
☐		NUTR 546	Clinical Nutrition 3 (4) F	NUTR 337, NUTR 344 and ANSC 424	
☐		NUTR 551	Analysis of Nutrition Data (3) F	NUTR 337, NUTR 450	
☐		PARA 438	Immunology (3) F		

Choose one Concentration; All concentrations have 6 required credits and 6 complementary credits unique to the concentration.
No course may be counted more than once.

COMPL	GRADE	SPORTS NUTRITION	*
		EDKP 395 Exercise Physiology (3) F	
		NUTR 503 Nutrition and Exercise (3) W	
		At least 6 credits from the following courses:	
		ANAT 214 Systemic Human Anatomy (3)	
		EDKP 261 Motor Development (3)	
		EDKP 330 Physical Activity and Health (3)	
		EDKP 445 Exercise Metabolism (3)	
		EDKP 446 Physical Activity and Ageing (3)	
		EDKP 448 Exercise and Health Psychology (3)	
		EDKP 449 Exercise Pathophysiology II (3)	
		EDKP 485 Exercise Pathophysiology I (3)	
		EDKP 495 Scientific Principles of Training (3)	
		EDKP 542 Environmental Exercise Physiology (3)	
		NUTR 430 Directed Studies: Diet. & Nutrition 1 (3)	

COMPL	GRADE	METABOLISM, HEALTH AND DISEASE	*
		NUTR 507 Advanced Human Biochemistry (3) W	
		NUTR 537 Advanced Human Metabolism (3) F	
		At least 6 credits from the following courses	
		ANAT 214 Systemic Human Anatomy (3)	
		ANAT 261 Intro to Dynamic Histology (3)	
		ANAT 262 Intro Molecular and Cell Biology (3)	
		ANAT 322 Neuroendocrinology (3)	
		ANSC 324 Developmental Biology Reproduction (3)	
		ANSC 400 Eukaryotic Cells and Viruses (3)	
		ANSC 560 Biology of Lactation (3)	
		BIOL 300 Molecular Biology of the Gene (3)	
		BTEC 306 Experiments in Biotechnology (3)	
		MICR 341 Mechanisms of Pathogenicity (3)	
		NUTR 430 Directed Studies: Diet. &Nutrition 1 (3)	
		PARA 424 Fundamental Parasitology (3)	
		PATH 300 Human Disease (3)	
		PHAR 300 Drug Action (3)	
		PHAR 301 Drugs and Disease (3)	
		PHAR 303 Principles of Toxicology (3)	
		PHGY 311 Directed Studies: Diet. &Nutrition 1 (3)	
		PHGY 312 Respiratory, Renal, Cardio Physiology (3)	

COMPL	GRADE	FOOD FUNCTION AND SAFETY	*
		FDSC 300 Principles of Food Analysis 1 (3) F	
		FDSC 525 Food Quality Assurance (3) W	
		At least 6 credits from the following courses	
		AGRI 510 Professional Practice (3)	
		ANSC 350 Food Borne Pathogens (3)	
		FDSC 315 Sep. Techn. in Food Analysis (3)	
		FDSC 319 Food Commodities (3)	
		FDSC 330 Food Processing (3)	
		FDSC 334 Analysis Food Toxins & Toxicants (3)	
		FDSC 405 Product Development (3)	
		FDSC 442 Food Microbiology (3)	
		FDSC 516 Flavour Chemistry (3)	
		FDSC 520 Biophysical Chemistry of Food (3)	
		FDSC 535 Food Biotechnology (3)	
		FDSC 537 Nutraceutical Chemistry (3)	
		FDSC 540 Sensory Evaluation (3)	
		NUTR 430 Directed Studies: Diet. & Nutrition 1 (3)	

COMPL	GRADE	GLOBAL NUTRITION	*
		NUTR 501 Nutrition in Develop Countries (3) F	
		NUTR 505 Public Health Nutrition (3) F	
		At least 6 credits from the following courses	
		AGEC 330 Agriculture and Food Markets (3)	
		AGEC 442 Economics of Intern. Agri. Develop. (3)	
		AGRI 340 Principles of Ecological Agriculture (3)	
		AGRI 411 Glob. Issues Devel., Food & Agri. (3)	
		ANSC 433 Animal Nutrition and Metabolism (3)	
		ANSC 560 Biology of Lactation (3)	
		ANTH 302 New Horizons in Medical Anthro (3)	
		GEOG 303 Health Geography (3)	
		GEOG 403 Global Health and Envir. Change (3)	
		NUTR 341 Global Food Security (3)	
		NUTR 430 Directed Studies: Diet & Nutrition 1 (3)	
		NUTR 506 *Qualitative Methods in Nutrition (3)	
		NUTR 520 *Indigenous Peoples' Nutrition (3)	
		PARA 410 Environmental and Infection (3)	
		PARA 515 Water, Health and Sanitation (3)	
		PPHS 501 Population, Health & Epidemiology (3)	
		PPHS 511 Fundamentals of Global Health (3)	
		PPHS 529 Global Environmental Health and Burden of Disease (3)	

*Not offered in 2022-2023

		ELECTIVES (15 CR)	*