

HUMAN BIOSCIENCES

Listed below are a recommended sequence of courses for those considering completing a Bachelor of Science in Human Biosciences with a Major or Honours. Information is also included for those considering completing a Human Biosciences Minor. Please note that students must complete the required prerequisite first year courses prior to declaring a major in Human Biosciences with at least a 60% overall average. These requirements must also include at least one Critical Reading and Writing (CRW) course that is an English course.

*Students who take CHEM 1010 in the Fall should take CHEM 1050 in the Winter and CHEM 1051 in the Spring (if offered). It is strongly recommended that CHEM 1051 be completed before beginning second year. Students must have at least 60% in CHEM 1050 to register for CHEM 2400.

** Students completing MATH 1090 in the Fall should complete MATH 1000 in the Winter.

| | FALL | WINTER | |
|---|---|-------------------------------|------------------|
| YEAR 1 (declare) | CRW course | CRW course | |
| | *CHEM 1050 | *CHEM 1051 | |
| | BIOL 1001 | BIOL 1002 OR HUBI 1001 | |
| | **MATH 1000 | elective | |
| | elective | elective | |
| YEAR 2 | HUBI 2001 | HUBI 2003 | |
| | HUBI 2002 | HUBI 2004 | |
| | CHEM 2400 | HUBI 2901 | |
| | STATS 2550 | elective | |
| | elective | elective | |
| YEAR 3 | Med 310A | Med 310B | |
| | HUBI 3001 | HUBI 3004 | |
| | HUBI 3002 | HUBI 3005 | |
| | HUBI 3003 | HUBI 3906 | |
| | HUBI 3907 | elective | |
| YEAR 4 (MAJOR) | ^c HUBI 4xxx | ^c HUBI 4xxx | |
| | HUBI 4800 | ^c elective | |
| | ^c elective (science) | elective | |
| | ^c elective (science) | elective | |
| | elective | elective | |
| Year 4 (HONOURS) | HUBI 499A | HUBI 499B | |
| | HUBI 4800 | ^c HUBI 4xxx | |
| | ^c HUBI 4xxx | ^c HUBI 4xxx | |
| | ^c HUBI 3xxx / 4xxx | ^c HUBI 3xxx / 4xxx | |
| | elective | elective | |
| HONOURS INFORMATION | Students in Honours standing must have a minimum grade of "B" or an average of 75% in all required Human Biosciences courses <small>(as specified under clause 2 of Graduation Requirements, Academic Standing in the Degree Regulations for the Honours Degree of Bachelor of Science; this also excludes first year courses)</small> | | |
| CONCENTRATION for Majors / Honours students only (choose 15 credit hours) | | | |
| <small>^c Students may select courses in one of the following concentrations which will be noted on the student's transcript. These courses may be used for electives or HUBI 3xxx / 4xxx courses listed above.</small> | | | |
| BIOCHEMISTRY | HEALTH AND DISEASE | GENE REGULATION | NUTRITION |
| HUBI 3101/BIOL 4200 | HUBI 3101/BIOL 4200 | HUBI 3207 | HUBI 3402 |
| HUBI 3105 | HUBI 3600 | HUBI 4101 | HUBI 3600 |
| HUBI 4002 | HUBI 4230 | HUBI 4104 | HUBI 4230 |
| HUBI 4101 | HUBI 4231 | HUBI 4231 | HUBI 4240 |
| HUBI 4106 | HUBI 4232 | HUBI 4240 | HUBI 4242 |
| HUBI 4200 | HUBI 4301 | BIOL 2250 | HUBI 4300 |
| HUBI 4201 | HUBI 4240 | BIOL 3951 | HUBI 4301 |
| HUBI 4232 | BIOL 3050 | BIOL 4241 | HUBI 4501 |
| CHEM 2100 | HUBI/BIOL 3052 | BIOL 4606 | HUBI 4106 |
| CHEM 2401 | CHEM 4701 | | HUBI/BIOL 3052 |
| MINOR (stipulated course prerequisites also apply to a minor in Human Biosciences) | | | |
| For a minor in Human Biosciences, students must complete: | | | |
| a. Human Biosciences 2001, 2002, 2003, 2004. | | | |
| b. Twelve credit hours in Human Biosciences courses 3xxx or 4xxx. | | | |

Note: (1) The University Calendar defines the requirements for the Bachelor of Science Degree. It is your responsibility to ensure you are following the requirements specified in the Calendar.

(2) Electives must be completed to give a total of at least **78** credit hours in science courses and a total of **120** credit hours overall in order to receive a degree.

LIST OF HUBI COURSES

HUBI 1001 Food, Drugs, and Your Body (same as BIOC 1600)
HUBI 1430 Biochemistry for Health Professionals (same as BIOC 1430)
HUBI 2001 Introduction to Biochemistry (new - CR BIOC 2201)
HUBI 2002 Introduction to Human Nutrition (same as BIOC 2600/HKR 2600)
HUBI 2003 Basics of Human Metabolism (new - CR BIOC 3206)
HUBI 2004 Fundamentals of Modern Molecular Biology (new - CR BIOC 2200)
HUBI 2901 Biochemistry Laboratory (same as BIOC 2901)
HUBI 3001 Lipids and Health (new)
HUBI 3002 Carbohydrates: Functions in Human Health and Disease (new)
HUBI 3003 Proteins and Health (new)
HUBI 3004 Cellular Signaling (new - CR BIOC 3108)
HUBI 3005 Environment-Health Interactions (new)
HUBI 3052 Food Microbiology (same as BIOC 3052/BIOL 3052)
HUBI 3101 Immunology (same as BIOC 4105/BIOL 4200/PHARM 3006)
HUBI 3105 Physical Biochemistry (same as BIOC 3105)
HUBI 3207 Nucleic Acid Biochemistry and Molecular Biology (same as BIOC 3207)
HUBI 3402 Food Chemistry (same as BIOC 3402)
HUBI 3600 Sports and Exercise Nutrition (same as BIOC 3600)
HUBI 3906 Nutritional Biochemistry and Metabolism Laboratory (new - CR BIOC 3906)
HUBI 3907 Molecular Biology Laboratory (same as BIOC 3907)
HUBI 4002 Biochemical Regulation (same as BIOC 4002)
HUBI 4101 Proteins (same as BIOC 4101)
HUBI 4104 Eukaryotic Gene Regulation and Developmental Biology (same as BIOC 4104)
HUBI 4106 Advanced Metabolism (new – CR BIOC 3206)
HUBI 4200 Bioenergetics and Biological Oxidation (same as BIOC 4200)
HUBI 4201 Membranes – Structure and Function (same as BIOC 4201)
HUBI 4230 Lipid and Lipoprotein Metabolism (same as BIOC 4230)
HUBI 4231 Molecular Biology of the Bacterial-Human Interface (same as BIOC 4231)
HUBI 4232 Enzymes and Receptors (same as BIOC 4232)
HUBI 4240 Nutrient-Gene Interactions and Personalized Nutrition (same as BIOC 4240)
HUBI 4300 Controversies in Nutrition (same as BIOC 4300)
HUBI 4301 Nutrition and Disease (same as BIOC 4301)
HUBI 4800 Human Biosciences Capstone (new)
HUBI 499A and 499B Dissertation (same as BIOC 499A/B)

**WANT TO KNOW HOW TO DECLARE A MAJOR OR MINOR?
 SCAN QR CODE BELOW FOR INFORMATION**



Email forms to bcadvice@mun.ca

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