

SELECTIVES AND ADVANCED SELECTIVES

NOTE: If the course does not appear on the timetable, it is not offered that year

Note that a **Selective** is a course from a predetermined list, provided by the program, whereas an **Elective** is any course at Dalhousie University. In cases where prerequisites for Selectives are not offered as Medical Sciences core courses, Elective space can be used to fulfill these prerequisites.

Selectives:

Biochemistry/ Molecular Biology

BIOC 2610 - Introductory Biochemistry Lab
BIOC 3300 - Intermediary Metabolism
BIOC 3400 - Nucleic Acid Biochemistry & Molecular Biology
BIOC 3501 – Introduction to Biotechnology (**new Fall 2024**)
BIOC 3610 – Research Methods in Biomedical Sciences
BIOC 3700 - Biomolecular Chemistry

Biology

BIOL 2003 – Animal Diversity
BIOL 2040 - Evolution
BIOL 2060 - Introductory Ecology
BIOL 3046 - Molecular Evolution
BIOL 3050 - Developmental Biology
BIOL 3322 – Parasitology
BIOL 3326 – Vertebrate Functional Morphology
BIOL 3328 – Medical Entomology (only offered in Summer)
BIOL 3421/ANAT 3421 - Comparative Vertebrate Histology (**not offered in 2023/24**)
BIOL 3430/ANAT 2160 - Introduction to Human Histology

Biomedical Engineering

BMNG 3000 – Technology in Medicine

Chemistry

CHEM 2301 - Introduction to Physical Chemistry I
CHEM 2304 - Introduction to Physical Chemistry II
CHEM 3601 – Chemistry of Living Systems

Economics

ECON 2231 – Perspective in Health Economics (**not offered in 2023/24**)
ECON 3231 – Topics in Health Economics (**not offered in 2023/24**)

Environmental Science

ENVS 3400 – Environment and Human Health

Humanities and Social Sciences

ENGL 2030 – Literature, Health, and Healing (offered in alternate years to ENGL 3320)
ENGL 3320 – Literature and the History of Medicine (offered in alternate years to the ENGL 2030)
HSTC 2102 – Origins of Modern Medicine
HSTC 2202 – The Beginnings of Western Medicine: The Birth of the Body
HSTC 2206 – Biopolitics: Human Nature in Contemporary Thought
HSTC 2211 – Introduction to the History of Science I: From the Ancients to the Birth of the Modern
HSTC 2212 - Introduction to the History of Science II: From the Birth of the Modern to the Present

HSTC 2350 – The Body in Early Modern Europe (**not offered in 2023/24**)
HSTC 3101/CTMP 3204 – Human Experiments
HSTC 3121 – In Search of the Philosopher's Stone: The History of European Alchemy
INTD 3115 - Global Health in the 21st Century
PHIL 2805 - Ethics and Health Care: Patient Care
PHIL 2810 – Ethics and Health Care: Social Policy (can only take one of 2805 or 2810 as selective, other as core)
PHIL 3800 – Philosophy of Medicine (**not offered in 2023/24**)
SOSA 2502 - Biomedicine and the Illness Experience (**not offered in 2023/24**)
SOSA 3135 – The Social Organization of Health Care (**not offered in 2023/24**)
SOSA 3143 - Health, Illness, and the World System (**not offered in 2023/24**)
SOSA 3145/GWST 3800 - Gender and Health (**not offered in 2023/24**)
SOSA 3147 – Aging Cross Culturally (**not offered in 2023/24**)
SOSA 3148 - The Sociology of Addiction/ Drugs, Health, and Society
SOSA 3403 – Qualitative and Field Methods

Interprofessional Health Education

IPHE/IDHS 2201 – Introduction to Aboriginal Peoples' Health & Healing

Kinesiology

KINE 2465 – Introduction to Biomechanics (**exclusion with PHYC 2610**)
KINE 3485 – Psychology of Sport & Physical Activity

Mathematics

MATH 1010 – Differential and Integral Calculus II

Medical Neuroscience

ANAT 2160/BIOL 3430 - Introduction to Human Histology
ANAT 3421/BIOL 3421 - Comparative Vertebrate Histology (**not offered in 2023/24**)

Microbiology/Immunology

MICI 2400 – Laboratory Methods in Microbiology & Immunology
MICI 3114 - Virology
MICI 3119 - Physiology of Prokaryotic Cell
MICI 4115 – Medical Immunology (**not offered in 2023/24**)
MICI 4218 – Clinical Microbiology

Neuroscience

NESC 2130/PSYO 2130 – Introduction to Cognitive Psychology
NESC 2570/PSYO 2570/PHYL 2570 - Cellular Neuroscience
NESC 3043/PSYO 3043 – Neurobiology of Learning (**not offered in 2023/24**)
NESC 3170/PSYO 3170 – Hormones and Behaviour
NESC 3227/PSYO 3227 – Principles of Human Neuropsychology
NESC 3670 - Genes, Brain and Behaviour

Pharmacology

PHAC 3333 - Pharmacology of Medicinal Herbs and Fungi (**not offered until 2025**)

Physics

PHYC 1290 – Introduction to Physics (**exclusion with PHYC 1320**)
PHYC 1320 – Physics in and Around You (**exclusion with PHYC 1290**)
PHYC 2250 – Physics of Biological and Medical Technology (**not offered in 2023/24**)
PHYC 2610 – Introduction to Biomechanics (**exclusion with KINE 2465; (PHYL)not offered in 2023/24**)

Physiology & Biophysics

PHYL 2570/NESC 2570/PSYO 2570 – Cellular Neuroscience
PHYL 3120 - Exercise Physiology in Health & Disease
PHYL 3320 - Human Cell Physiology
PHYL 3420 - Sensory Physiology (**not offered in 2023/24**)
PHYL 3520 - Core Concepts in Medical Physiology (**exclusion with PHYL 4504**)
PHYL 3600 – Directed Project in Physiology
PHYL 3620 – Human Physiology Lab

Psychology

PSYO 2080 - Social Psychology
PSYO 2090 - Developmental Psychology
PSYO 2130/NESC 2130 – Introduction to Cognitive Psychology
PSYO 2220 – Adult Psychopathology
PSYO 2444 – Forensic Psychology
PSYO 2570/ NESC 2570/PHYL 2570 – Cellular Neuroscience
PSYO 2770 - Brain & Behaviour (**not offered in 2023/24**)
PSYO 3043/NESC 3043 – Neurobiology of Learning (**not offered in 2023/24**)
PSYO 3129 - Childhood Psychopathology (Instructor Permission)
PSYO 3170/NESC 3170 – Hormones and Behaviour
PSYO 3227/NESC 3227 – Principles of Human Neuropsychology

Science

SCIE 2111 (0 credit) & 2112 – Becoming a Scientist I & II
SCIE 3100 – Experiential Learning in Medical Sciences

Advanced Selectives:

Biochemistry/Molecular Biology

BIOC 4010 – Bioinformatics
BIOC 4302 – Biochemistry of Lipids
BIOC 4305 – Mechanisms of Signal Transduction
BIOC 4403 – Genes and Genomes
BIOC 4404 – Gene Expression
BIOC 4501 – Medical Biotechnology I
BIOC 4700 – Proteins (**not offered in 2023/24**)
BIOC 4701 – Enzymes

Biology

BIOL 4020 – Advanced Cell Biology (**not offered in 2023/24**)

Computer Science

CSCI 4180 – Introduction to Computational Biology and Bioinformatics (**not offered in 2023/24**)
CSCI 4181 – Algorithms in Bioinformatics

Humanities and Social Sciences

PHIL 4801 – Topics in Ethics and Healthcare (offered every 3-4 years)
POLI 4260 - The Politics of Health Care

Medical Neuroscience

ANAT 4010 – Advanced Human Anatomy

Microbiology/ Immunology

MICI 4027 - Molecular Mechanisms of Cancer
MICI 4033 - Advanced Microbial Genetics (**not offered in 2023/24**)
MICI 4100 – Processes & Mediators of Inflammation
MICI 4114 – Advanced Topics in Molecular & Medical Virology
MICI 4116 – Current Topics in Mucosal Immunology
MICI 4302 – Clinical & Molecular Immunology (**not offered in 2023/24**)

Neuroscience

NESC 3180/PSYO 3180 - Psychoneuroimmunology/Ecological Immunology
NESC 3970/PSYO 3970 – Molecular Neuroscience
NESC 4185/ PHYL 4000 - Current Advances in Synaptic Function and Plasticity

Pathology

PATH 4035 - Human Genetics
PATH 4100 – Critical Thinking in Neuropathology

Pharmacology

PHAC 4001 - Pharmacology II (**not offered anymore**)
PHAC 4403 – Systems Pharmacology 1
PHAC 4409 – Systems Pharmacology 2

Physiology & Biophysics

PHYL 4000/NESC 4185 - Current Advances in Synaptic Function and Plasticity
PHYL 4324 - Endocrine Physiology
PHYL 4504 – Respiratory Physiology (**exclusion with PHYL 3520**)
PHYL 4680 - Cardiovascular Physiology (**not offered in 2023/24**)

Psychology

PSYO 3180/NESC 3180 - Psychoneuroimmunology/Ecological Immunology
PSYO 3970/NESC 3970 – Molecular Neuroscience

Science

SCIE 4101 & 4102 – Directed Project in Medical Sciences I & II
SCIE 4444 – Leadership in Science (practicum must be health-related)